

SIMKAR

C O R P O R A T I O N



About our new Buyers' Guide

Throughout this guide, you will find products for a wide range of applications. In order to quickly identify products with special features or benefits, we have marked them with one or more badges. The following is a brief guide to help you identify them.



Energy

Simkar has dedicated itself to new products and technology meant to help you reduce your energy use as well as your environmental footprint. This logo – it designates products and services that provide energy-saving alternatives and are designed to help reduce your costs.



CFL Available

We now offer many products with Compact Fluorescent technology. These products provide an energy-saving alternative to HID where the application permits.



HPT8 Available

The HPT8 program was initiated by the Consortium for Energy Efficiency, a national group of utilities, energy conscious organizations, and educational programs to identify and promote High Performance T8 products and encourage their use through education, rebates, and legislation. Because of their improved energy efficiency, HPT8 systems are required to be eligible for certain rebate programs.



20 Gauge

This badge identifies products offered in 20 gauge weight.



Vandal Resistant

A number of our products are highly resistant to abuse and have been identified with this badge as being vandal resistant.



DARK SKY

Dark Sky Compliant

Simkar has had a range of products approved as being Dark-Sky friendly by the International Dark Sky Association. These fixtures are designed to help limit light pollution.

WELCOME

As a manufacturer of high quality commercial, industrial, and residential lighting products, we would like to welcome you to our new comprehensive Buyers' Guide.

Simkar is proud to offer interior and exterior products geared to the lighting professional with an emphasis on innovative, energy efficient products that are essential to existing and emerging markets.

We are pleased to introduce Altus, a recessed direct/indirect fixture with some very special features, Adjust-a-Bay, the ultimate in fluorescent high bay versatility, Latitude, an energy-efficient version of a classic design and many other new products, improvements and technical advancements that allow us to provide you with more choices to meet all of your lighting needs.

To our present customers we would like to extend our sincere appreciation for your support. For our new and future customers, you will find that our responsive, professional and courteous staff is dedicated to providing you with high quality, energy efficient, value-added products on a timely basis. We also have a professional engineering group to fulfill your custom needs as well as layout and design assistance for fluorescent and HID applications.

At Simkar, we appreciate your business and input into how we can serve you better. We are determined to be your first choice.

SIMKAR®
C O R P O R A T I O N

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DARK SKY

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Fluorescent RECESSED

Simkar offers a comprehensive line of fluorescent fixtures designed for recessed applications. Whether the ceiling is a lay-in T-bar or requires a plaster frame, we offer 2x2, 2x4, or 1x4 lensed or parabolic solutions in T12, T8 or T5.

Specialty and multiple ballasts needed for switching or daylight harvesting required for rebates or incentives are also available.

Our Altus line is a unique direct/indirect recessed system that uses T5 technology with a shallow profile in center, dual or side basket models. The center basket fixtures can be adjusted to three positions to provide aesthetic and functional versatility. Two models are available – Altus, using perf shielding, and the new Altus Energy, using lensed shielding. Whether your goal is aesthetics, energy efficiency, or economy, Simkar has the recessed fixtures you need.



Simkar is proud to offer fixtures that comply with the HPT8 program.

Simkar is proud to offer fixtures that comply to HPT8 and NEMA Premium programs.

The HPT8 program was initiated by the Consortium for Energy Efficiency (CEE), a national group of utilities, energy conscious organizations and educational programs to identify and promote High Performance T8 products. HPT8 systems are required to be eligible for certain rebate programs.

An HPT8 ballast must have a power factor > 0.9 , a THD $< 20\%$ and operate at a frequency between 20 and 33 kHz or > 40 kHz. HPT8 ballasts are available in three levels: Low BF ($< .85$), Normal BF ($> .85$ but < 1.0) and High (greater than or equal to 1.01). Ballasts are available in programmed and

instant start and HPT8 qualified ballasts are also available in 25W and 28W energy saving versions.

For lamps, High Performance is a 32 Watt, 3100 + lumen lamp that has a life of 24,000 hours based on programmed or rapid start ballasts, 94% lumen maintenance and CRI greater than 81. For lamps with a color temperature $> 45K$, 2950 initial lumens is acceptable. 25W and 28 W lamps must meet lumen maintenance and CRI criteria with life $> 18,000$ hours on an instant start ballast.

HPT8 systems must have a ballast and lamp combination that delivers >90 mean lumens per watt (LPW) with instant start ballasts or > 88 mean LPW with programmed start ballasts.

NEMA (National Electrical Manufacturers Association) has created the NEMA Premium Ballast program that uses the CEE HPT8 base criteria. It is important to note that not all of the HPT8 and NEMA Premium ballasts appear on both lists.

Consult your local utility to determine if HPT8 or NEMA Premium products are required in your area. Simkar will be happy to assist you in ballast selection.



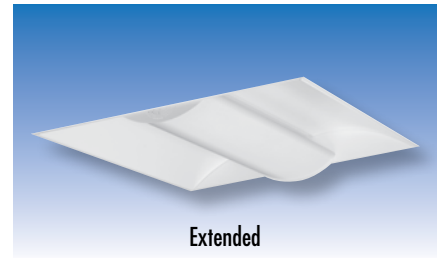
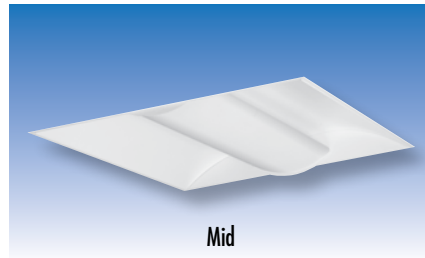
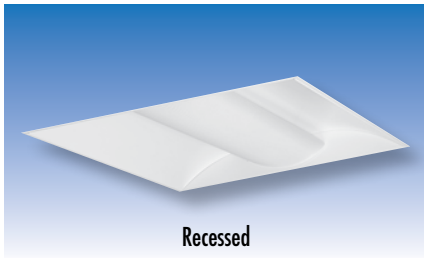
A L T U S

Simkar's Altus™ is one of the shallowest and most extensive families of T5 recessed luminaires on the market today. Altus is available in Center, Dual, and Side microperf basket configurations.

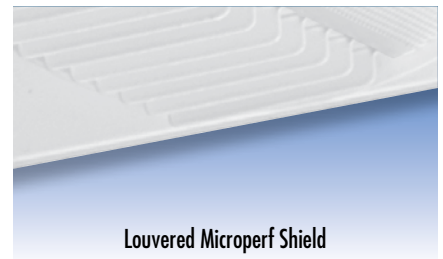
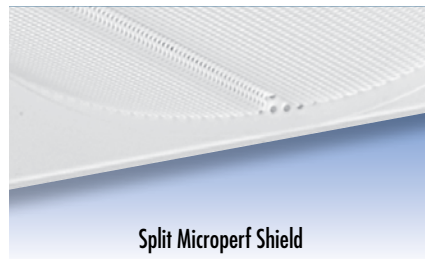
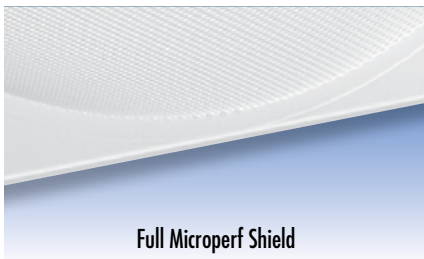
For Center basket models, Simkar has an exclusive, adjustable basket system that allows you to lower the basket and lamps two additional positions to change the light

distribution pattern, output, and look of the fixture. You can now have versatility within your lighting environments with a simple, positive lock adjustment. Our modular basket system provides the additional flexibility of creating numerous configurations to fulfill your lighting needs.

Three Height Settings



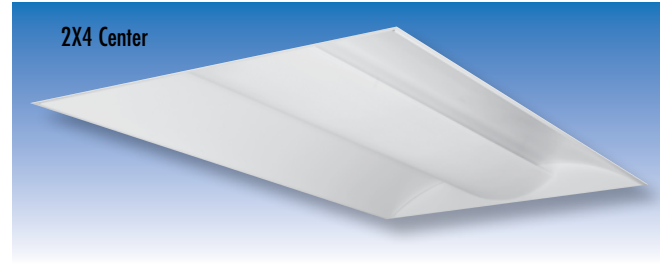
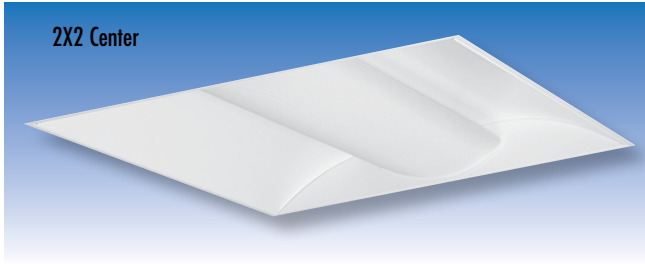
Three Basket Styles For Center Configurations



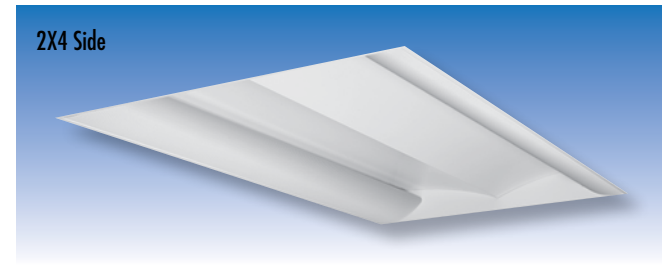
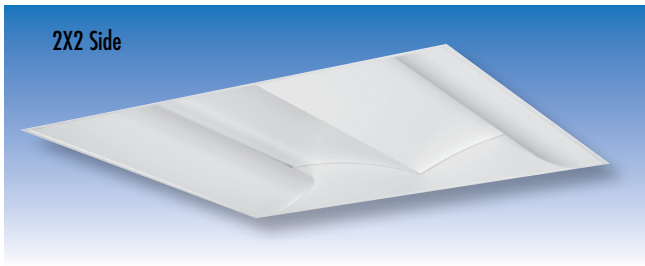
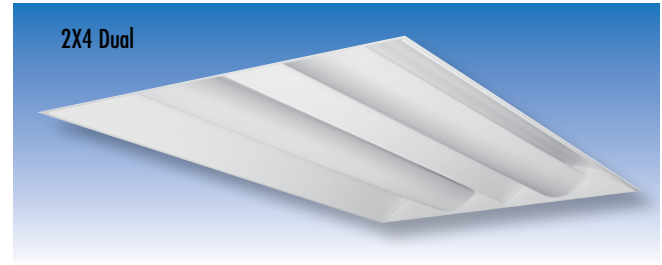
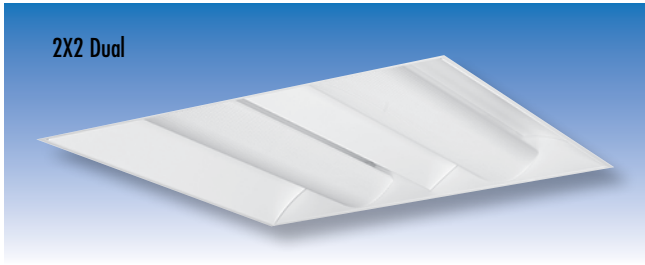
Features & Benefits

- 3.25" Low profile housing for shallow plenums.
- Low profile housings are lighter; easier to handle and install.
- Exclusive adjustable basket/lamp system for customized performance, distribution, versatility, and aesthetics.
- Innovative adjustable basket/lamp system can be set in three positions: above the ceiling, partially below the ceiling, and 1-1/8" below the ceiling (ALC only).
- Rigid unibody construction for strength and ease of installation.
- Architectural low-profile design projects a clean, modern look.
- All microperf shields come with a diffuse, white translucent inlay for visual comfort.
- Shields are securely held in place and hinge from either side for easy lamp replacement.
- Precise optical design ensures optimal performance and distributes high quality direct/indirect light to achieve uniformity and comfort throughout your work area.
- Housing, reflectors and shields are post painted with a 5-stage, non-glare, high reflectance powder coat finish for performance, durability, and aesthetics.
- Built-in earthquake brackets.
- Built-in four-corner tether hanging provisions.
- Variety of center basket styles to meet individual needs and tastes.
- Ballast access from below.
- T5 rotor-lock sockets for positive lamp retention.
- T5 Twin Tube lamp sockets with double contact construction and lamp support clips.
- Access plate for easy and convenient supply wiring.
- Completely wired electronic ballasts: Class P, Thermally Protected with auto resetting, HPF, sound rated A is standard.

2x2 And 2x4 Configurations (Adjustable)



Also Available (Non-adjustable)



Altus Ordering Information

Series	Size	Diffuser	# Lamps	Lamp Type	Ballast	Voltage
ALC = Adjustable Center Perf Shield ALD = Dual Perf Shield ALS = Side Perf Shield	22 = 2' X 2' 24 = 2' X 4'	ALC, ALD, ALS P = Perf Shield <i>ALC Only</i> SP = Split Perf Shield LP = Louvered Perf Shield	2 4 (2' x 4' only, with TTS lamps; not adjustable in AEC)	22 Size: 2' x 2' 14T5 = 14W T5, 22" 24T5H = 24W T5HO, 22" 40TTS = 40W TTS, 22" 50TTS = 50W TTS, 22" 24 Size: 2' x 4' 28T5 = 28W T5, 46" 54T5H = 54W T5HO, 46" 40TTS = 40W TTS, 22"* 50TTS = 50W TTS, 22"*	E = Electronic D = Dimming	U1 = 120-277V 347 = 347V 480 = 480V

* ALC and ALD models only

Options	Accessories Order Separately
BP = Bulk Pack, Palletized ELS1 = Emergency Lighting (low lumens; for 28W T5 only) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens) FL4 = 3/8", 6' flex with two #18, one ground and two connectors FL5 = 3/8", 6' flex with three #18, one ground and two connectors M = Master; includes 9' intertie and snap-in connector S = Satellite; includes snap-in connector L = Lamps Installed (Specify Lamps)	GCK22 = Sheetrock/Plaster Grid Kit for 2'x2' units GCK24 = Sheetrock/Plaster Grid Kit for 2'x4' units

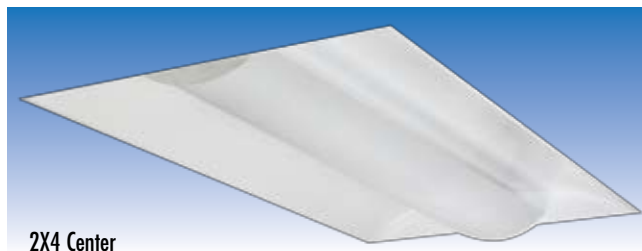
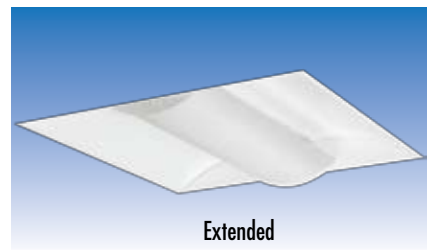
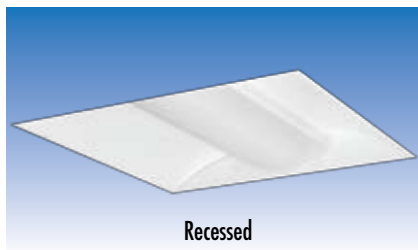


A L T U S
energy

The Altus™ Energy is Simkar's latest addition to our successful Altus family of T5 Direct/Indirect luminaires. With the push towards more green solutions, we have responded with a lens design that has all the advantages of the original Altus, but allows more light to be transmitted through the "direct" component of the system to produce a high efficiency fixture. The white translucent lenses have been carefully engineered to refract uniform light in a wide distribution pattern while allowing a low glare, high transmission solution. Unlike some competitive lensed fixtures, we have retained the indirect component of the design

to boost efficiency and enhance aesthetics. This new offering comes in two models: Center and Dual. Like its Altus sister, the center model has the exclusive, adjustable basket system that allows you to lower the lens two additional positions to increase the light output, change the light distribution pattern, and alter the look of the fixture. You have control over your lighting environments with a simple, positive lock adjustment. You now have two lighting solutions for the architectural recessed market: a perf design and a lens design!

Three Height Settings



Features & Benefits

- Low profile housing for shallow plenums.
- Low profile housings are lighter and easier to handle and install.
- Rigid, unibody construction for strength and ease of installation.
- Architectural, low profile design projects a clean, modern look.
- White translucent, refracting lens for visual comfort, uniformity, and efficiency.
- Lenses are securely held in place and hinge from either side for easy lamp replacement.
- Precise optical design ensures optimal performance and distributes high quality direct and indirect light to achieve great uniformity throughout your work area. Careful attention was paid to balancing this mixture of light to produce visual comfort and performance.
- Exclusive, Center Adjustable Lens/Lamp system for customized performance, distribution, and aesthetics.
- Innovative Center Adjustable Lens/Lamp system can be set in three positions: above the ceiling, partially below the ceiling, and 1" below the ceiling.
- Housing and Reflectors are post painted with a 5-stage, Non-glare, High Reflectance powder coat paint for performance, durability, and aesthetics.
- Built-in earthquake brackets.
- Built-in four-corner tether hanging provisions included.
- Ballast access from below.
- T5 rotor-lock sockets for positive lamp retention.
- TT5 Twin Tube lamp sockets with double contact construction and lamp support clips.
- Access plate for easy and convenient supply wiring.
- Completely wired electronic ballasts: Class P, Thermally Protected with auto resetting, HPF, sound A-rated
- Patent Pending

Housing

Housing to 3-1/4" deep, die-formed code gauge steel housing with high reflectance, non-glare white powder coat finish (90% minimum reflectance) over rust inhibiting phosphate coat. Wiring access plate provided with two knockouts and ground screw.

Electrical

T5 and T5HO technology: Ballast to be electronic, Program Start, fully wired with quick-disconnect device: Universal voltage 120 – 277VAC, 50/60Hz, Starting temperature 0°F (-18°C), < 15% THD, High-Power Factor, Thermally protected, Automatic resetting, Class P, Sound rating A.

Optics

Reflector to be die-formed, heavy gauge steel with post-painted high reflectance, non-glare white powder coat finish (90% minimum reflectance). Lens to be white translucent acrylic engineered optical uniformity and non-glare with a wave prism design. Lens to be tool-free removable and hingable from either side. AEC center lens model to be adjustable for Recessed, Mid, and Extended positions to allow for customized performance, distribution, and aesthetic flexibility.

Mounting

Mounting to be (T) Lay-in for NEMA type G, T-bar ceilings. Optional Sheetrock/Plaster Grid Kits available.

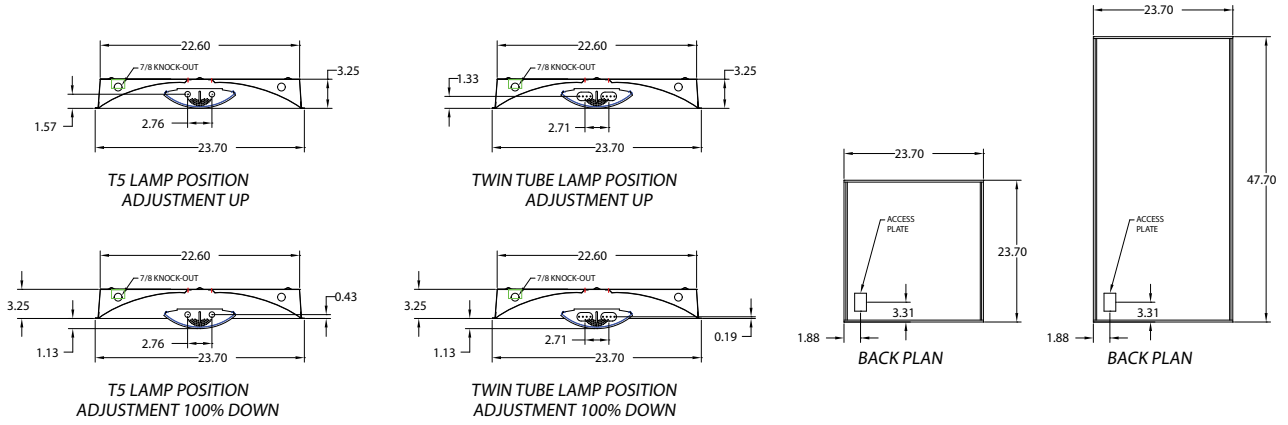
Altus Energy Ordering Information

Series	Size	Diffuser	# Lamps	Wattage / Type	Ballast	Voltage
AEC = Center Lens AED = Dual Lens	22 = 2' X 2' 24 = 2' X 4'	A = acrylic, white translucent (standard)	2 = 2 Lamps 4 = 4 Lamps (2' x 4' only, with TTS lamps; not adjustable in AEC)	<i>22 Size: 2' x 2'</i> 14T5 = 14W T5, 22" 24T5H = 24W T5HO, 22" 40TTS = 40W TTS, 22" 50TTS = 50W TTS, 22" <i>24 Size: 2' x 4'</i> 28T5 = 28W T5, 46" 54T5H = 54W T5HO, 46" 40TTS = 40W TTS, 22" 50TTS = 50W TTS, 22"	E = Electronic D = Dimming	U1 = 120-277V 347 = 347V 480 = 480V

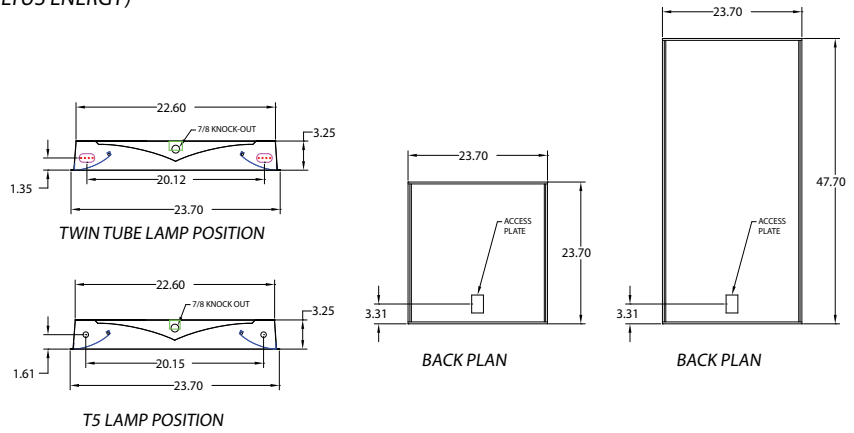
Options	Accessories Order Separately
BP = Bulk Pack, Palletized ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens) FL4 = 3/8", 6' flex with two #18, one ground and two connectors FL5 = 3/8", 6' flex with three #18, one ground and two connectors M = Master; includes 9' intertie and snap-in connector S = Satellite; includes snap-in connector L = Lamps Installed (Specify Lamps)	GCK22 = Sheetrock/Plaster Grid Kit for 2'x2' units GCK24 = Sheetrock/Plaster Grid Kit for 2'x4' units

Altus and Altus Energy Dimensions

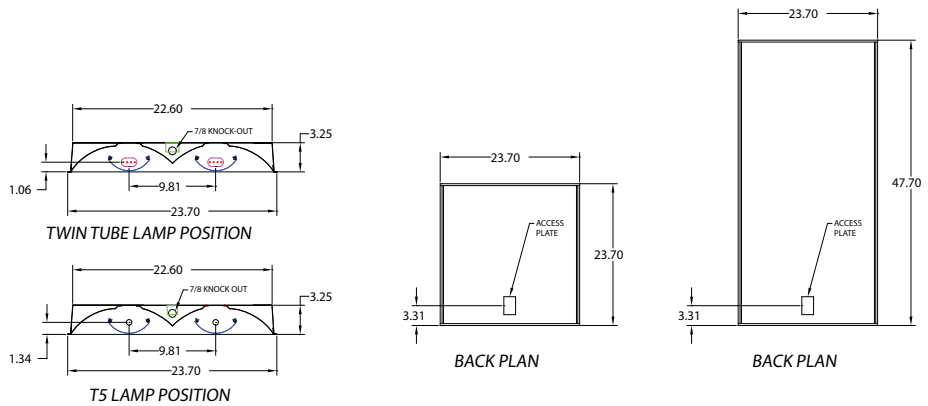
CENTER CONFIGURATION



SIDE CONFIGURATION (NOT AVAILABLE ON ALTUS ENERGY)



DUAL CONFIGURATION





TD Direct/Indirect fluorescent fixtures provide contemporary lighting effects by balancing direct and reflected illumination. Efficient, twin-tube, T5 or T8 lamps are concealed by attractive micro-perforated screens with opaline acrylic inlays. The TDPW is only 4" deep and comes in 2 x 2 and 2 x 4 configurations.

Housing

Not visible from below ceiling line. Die-formed heavy-gauge steel; prepainted, rust-inhibited, high-gloss white enamel. Access plate provided with 2 KOs and ground screw.

Shielding

Micro-perforated screens with opaline acrylic inlay; staggered hole pattern. White powder-coat finish.

Reflector: Matte white powder-coat finish.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A electronic ballast as standard unless otherwise specified. UL listed.

Mounting

Lay-in (T). A conversion kit (GCK) is available for NEMA type F ceilings. See page 91.

Anjelus Series Ordering Information

Series	Diffuser	Size	# of Lamps	Lamps
TD	PW = Dual perforated shields	242 = 2x2	2	17 = 17W 24" T8
	CW = Center perforated shield	244 = 2x4	3	32 = 32W 48" T8
	SW = Side perforated shields		4	54 = 54W T5HO 40 = 40W 22" TT 50 = 50W 22" TT

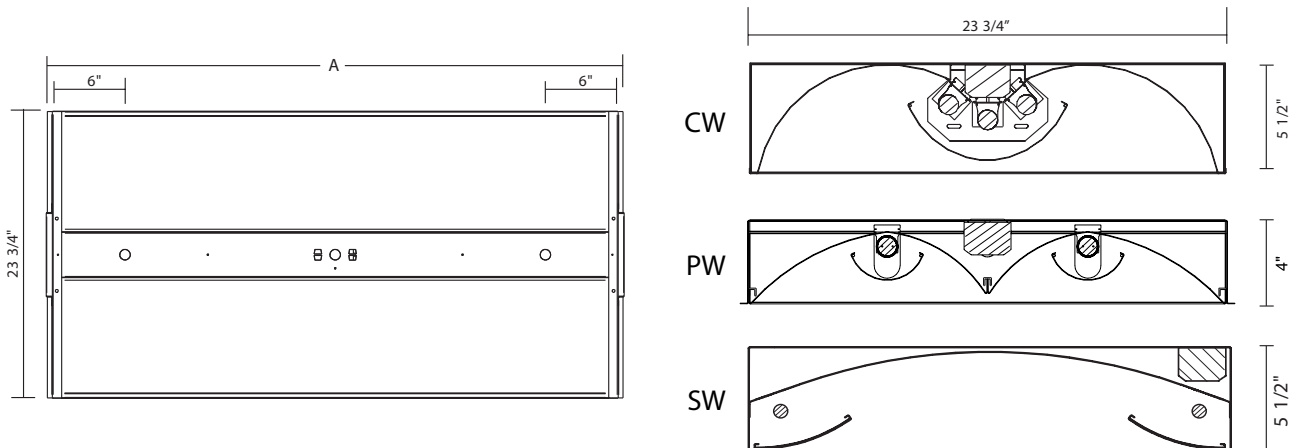
ELS Options	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8 B11HP(X) = HPT8* B12 = Electronic T5 B14 = Electronic TT	For 3 and 4 lamp units Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast For 2 lamp units Blank = single ballast 2/1L = (2) 1-lamp ballasts	UNV = 120-277V 120 = 120V 277 = 277V

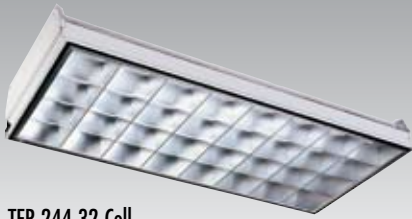
*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Accessories

GCK (Grid Conversion Kits)
GCK 22 = 2' x 2'
GCK 24 = 2' x 4'

Dimensions



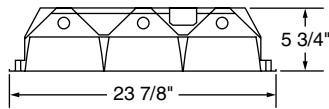


TEP-244 32 Cell

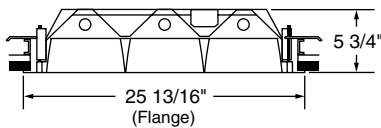
TEP and FEP Deep Cell Parabolics are attractive high-efficiency fixtures that produce uniform low brightness in the 60° - 90° zone.



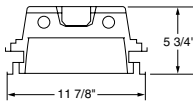
Dimensions



TEP



FEP



FEP

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Full black reveal and hinged louver for easy relamping. Access plate provided with 2 KOs and ground screw.

Shielding

Low iridescence, anodized, semi-specular aluminum parabolic, nominal 3" deep-cell louver held securely by steel latches. "T" hinges allow access from either side.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Optional EC515 Earthquake Clip for lay-in TEP grid ceilings. Specify FEP for flange unit or use GCK kit. (See page 91.) Flanged units require field assembly.

TEP and FEP Series Ordering Information

Series	Size	# Lamps	Lamp type	Air Handling	Cell Configuration
TEP = Lay-in 3" deep cell, semi-specular	124 = 1 x 4	2	14 = 14W T5	Static (standard) AC = Vented on all sides AH = Vented on 2' side AS = Vented on 4' side	8C = 1x4 (1 row of 8)
	242 = 2 x 2	3	17 = 17W T8		9C = 2x2 (3 rows of 3)
FEP = Flanged 3" deep cell, semi-specular	244 = 2 x 4	4	24 = 24W T5HO		12C = 2x2 (3 rows of 4)
			28 = 28W T5		12C = 2x4 (2 rows of 6)
			32U = 32W U6" T8*		16C = 2x2 (4 rows of 4)
			32 = 32W T8		18C = 2x4 (3 rows of 6)
			40TT = 40W TT		24C3X8 = 2x4 (3 rows of 8)
54 = 54W T5HO	24C4X6 = 2x4 (4 rows of 6)				
					27C = 2x4 (3 rows of 9)
					32C = 2x4 (4 rows of 8)

*For 1 5/8" please specify

Louver Finish	Options	Ballast	Switching	Voltage
Semi Specular (standard) G = Gold W = White S = Specular	SR = Specular reflector** WR = White reflector** ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8 B11HP(x) = HPT8* B12 = Electronic T5 B14 = Electronic TT D = Dimming (specify ballast)	For 3 and 4 lamp units Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast For 2 lamp units Blank = single ballast 2/1L = (2) 1-lamp ballasts	UNV = 120-277V 120 = 120V 277 = 277V

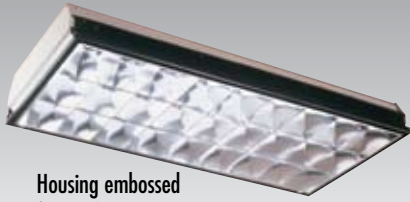
*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

**Contact factory for availability

Options	Accessories
L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed) FL4 = 3/8", 6' flex with two #18, one ground and two connectors* FL5 = 3/8", 6' flex with three #18, one ground and two connectors* M = Master; includes 9' intertie and snap-in connector S = Satellite; includes snap-in connector FB = Fast Blow Fuse SB = Slow Blow Fuse BP = Bulk Pack	EC515 = Earthquake Clip GCK (Grid Conversion Kits) GCK 14 = 1' x 4' GCK 22 = 2' x 2' GCK 24 = 2' x 4'

*Contact factory for other available options

TE2P-27 cell controls light at glare producing angles and meets IES RP1 preferred criteria.



Housing embossed for rigidity.

Para-Spec® fixtures feature parabolic louvers manufactured to exacting engineering, materials and quality specifications to ensure superior performance and service life.

Para-Spec®II TE2P Deep Cell Parabolics are precision engineered to eliminate glare. In particular, optimal positioning of the lamps provides high-efficiency fixtures with uniform low brightness in the 60° - 90° zone. The TE2P complies with RP1.

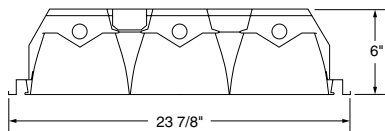


TE2P 2x2 12 Cell

TE2P Precision Parabolics with full black reveal create a floating louver appearance and hinged louver allows easy relamping. Options include flex, master/satellite wiring and heat return functions. Protective poly sheet keeps louver clean during shipment and installation.



Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Access plate provided with two KO's and ground screw.

Shielding

Precision engineered, low iridescent, anodized specular aluminum parabolic 4.25" deep cell louver equipped with T-hinges and spring latches to enable access from either side.



Precision design "cut-off" louver effectively eliminates glare in key zones.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Optional EC515 Earthquake clip (page 91) for extra security for TE2P in T-Bar ceilings. Flanged units use trim kits (GCK) that require field assembly. See page 91.

TE2P Series Ordering Information

Series	Size	Lamps
TE2P = Lay-in	242 = 2 x 2	317 = (3) 17W 24" T8
FE2P = Flange	244 = 2 x 4	332 = (3) 32W 48" T8 340TT = (3) 40W TT

Cell Config/3 Rows	Options	Ballast	Switching	Voltage
12C = 12 cell specular (2x2)	SR = Specular Reflector ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8 B11HP(x) = HPT8*	Blank = dual ballasts	UNV = 120-277V 120 = 120V
18C = 18 cell specular (2x4)	ELS2 = Emergency Lighting (medium lumens)	B14 = Electronic TT D = Dimming (specify ballast)	3L = (1) 3-lamp ballast	277 = 277V 347 = 347V
27C = 27 cell specular (2x4)	ELS3 = Emergency Lighting (high lumens)			

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options	Accessories
L = Lamps Installed (Specify Lamps) FL4 = 3/8", 6' flex with two #18, one ground and two connectors FL5 = 3/8", 6' flex with three #18, one ground and two connectors M = Master; includes 9' intertie and snap-in connector S = Satellite; includes snap-in connector FB = Fast Blow Fuse SB = Slow Blow Fuse BP = Bulk Pack	EC515 = Earthquake Clip (Specify FEP for flange unit or use GCK kit) GCK (Grid Conversion Kits) GCK 22 = 2' x 2' GCK 24 = 2' x 4'



TE3P Parabolic

TE3P Parabolic is a shallow plenum parabolic specifically designed to provide exceptional visual comfort. Its low brightness and overall photometric performance comply with IES RP-1. The TE3P is only 3 3/4" high and can be installed in NEMA type "F" or "G" ceilings.

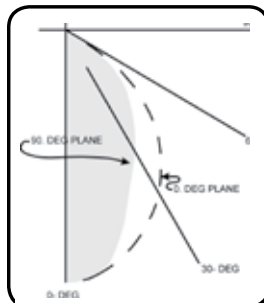


Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts and/or access plate provided.

Shielding

Excellent VCP; meets IES RP-1. Low iridescence, anodized semi-specular or specular aluminum parabolic louver is installed in flush steel door frame (black) with mitered corners that can be hinged from either side. Swing-action cam latches provide positive fit. Light traps standard. High-reflectance white reflector standard.



A low-iridescence, semi-specular 57-cell louver is standard; specular aluminum is optional. Louvers are installed in a flush, black steel door to create an attractive floating appearance. The door hinges from either side with a swing-action cam latch for easy relamping.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Lay-in (T) or Flange (F) troffer with access plate provided with 2 KOs and ground screw. 2 x 2 and 2 x 4 flanged fixtures require field assembly. Optional EC515 Earthquake Clip for lay-in grid ceilings. Specify FE3P for flange unit or use GCK kit. (see page 91) Flanged units require field assembly.

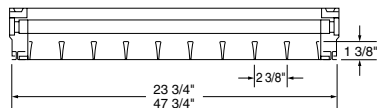
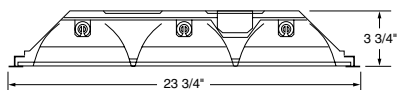
TE3P Series Ordering Information

Series	Spec Door	Size	Lamps	Cell Config/3 Rows
TE3P = Lay-in FE3P = Flange	Black steel, standard WF = Flat steel, white	242 = 2 x 2 244 = 2 x 4	317 = (3) 17W 24" T8 332 = (3) 32W 48" T8	27C = 27 cell semi-Specular (2x2) 27CS = 27 cell specular (2x2) 57C = 57 cell semi-Specular (2x4) 57CS = 57 cell specular (2x4)

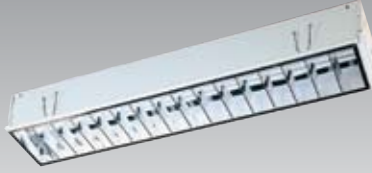
Options	Ballast	Switching	Voltage
SR = Specular Reflector ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8 B11HP(x) = HPT8* D = Dimming (specify ballast)	Blank = dual ballasts (2x4 only) 3L = (1) 3-lamp ballast	UNV = 120-277V 120 = 120V 277 = 277V 347 = 347V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Dimensions



Options	Accessories
L = Lamps Installed (Specify Lamps) FL4 = 3/8", 6' flex with two #18, one ground and two connectors FL5 = 3/8", 6' flex with three #18, one ground and two connectors M = Master; includes 9' intertie and snap-in connector S = Satellite; includes snap-in connector FB = Fast Blow Fuse SB = Slow Blow Fuse BP = Bulk Pack	EC515 = Earthquake Clip (Specify FEP for flange unit or use GCK kit) GCK (Grid Conversion Kits) GCK 22 = 2' x 2' GCK 24 = 2' x 4'



TEP94



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Access plate providing two KOs and ground screw.

Shielding

Specular aluminum parabolic louver, cell size nominal 2" deep, 8" wide. Installs to housing with torsion springs; access from either side. Choice of 16 cell or 12 cell.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

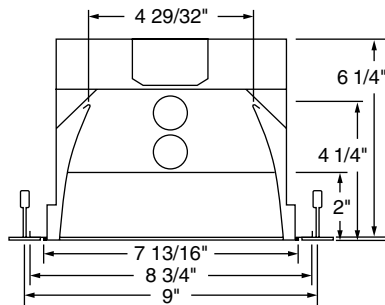
Mounting

Lay-in grid ceiling.

TEP94 Series Ordering information

Series	Lamps	Configuration	Cell Config
TEP94 = 9" x 48" Lay-in 2" deep louver blade, nominal 8" wide	132 = (1) 32W 48" T8 232 = (2) 32W 48" T8	O/U = Over/under stacked lamps (delete for single lamp model) Specify switching.	12C = 12 cells 16C = 16 cells

Dimensions



Options	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8 B11HP(x) = HPT8* D = Dimming (specify ballast)	<i>For 2 lamp units</i> Blank = single ballast (standard) 2/1L = (2) 1-lamp ballasts	UNV = 120-277V 120 = 120V 277 = 277V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



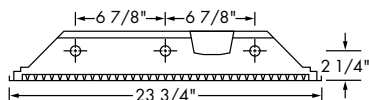
TY-244



Features & Benefits

- Top embossments for strength.
- Ballast embossment provides full contact for superior heat dissipation.
- Strengthening ribs on sides.
- Full access plate with double KOs. Screws included.
- Two built in T-bar clips on 2' wide models.
- End plate attachment with screws, not tabs.
- Upturned side rail edge for rigidity and safer handling.
- Mitered door corners for better fit than overlap corners.
- Improved large cam latches open door with ease. No tools needed!
- Full depth 1/2" door accepts 1/2" louver without notching.
- Built-in lens retainers.
- Door end screws — not tabs! — for strength and easy lens replacement.
- Built-in door hinge on side rail. No pop rivets.
- Ballast cover tabs prevent pinched wires.
- Metal light traps instead of gasket that deteriorates.
- Passes torque test for strength and minimal overall sag.
- Superb lamp spacing: 4 1/8" centers on 4-lamp fixtures. Allows lamp removal in any order.
- Lamp-pin slots for ease of lamp installation.
- Socket bar held in place with slot tab — removable from inside fixture.
- Hemmed end plate. Double-thick fold adds strength and eliminates sharp edge.
- Machine-installed shunts eliminate loose socket bar connections on electronic troffers.

Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Flush white steel door frame with mitered corners that can be hinged from either side. Swing-action cam latches provide positive fit. Light traps standard. Access plate providing 2 KOs and ground screw.

Shielding

Clear prismatic acrylic lens is standard. Other lens options available.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Lay-in (T) or Flange (F) troffer.

Versatile Troffer And Lens Ordering Information

Series	Diffuser	Door Frame	Size
T = Lay-In F = Flange XF = Powder coat, flange XT = Powder coat, lay-in	Y = Clear prismatic acrylic (standard) B = .125 clear prismatic polycarbonate C = .200 clear prismatic acrylic K = .125 clear prismatic acrylic O = .140 high impact P = acrylic drop dish U = .156 clear prismatic acrylic W = White acrylic Z = Other - Contact Factory	Steel, white (standard) FW = Flush, aluminum, white RW = Regressed, aluminum, white	122 = 1 x 2 124 = 1 x 4 242 = 2 x 2 244 = 2 x 4

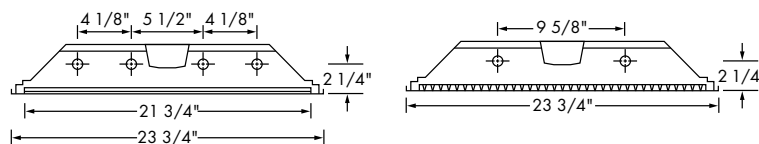
# Lamps	Lamp Type	Options	Ballast	Switching	Voltage
2	14 = 14W 24" T5	SR = Specular Reflector	B11 = Electronic T8	<i>For 3 and 4 lamp units</i>	UNV = 120-277V
3	24 = 24W 24" T5HO	ELS1 = Emergency Lighting (low lumens)	B11HP(x) = HPT8*	<i>Blank = dual ballasts</i>	120 = 120V
4	28 = 28W 48" T5 32 = 32W 48" T8 32U = 32W U6" T8*** 40TT = 40W 22" TT** 54 = 54W 48" T5HO	ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B12 = Electronic T5 B14 = Electronic TT D = Dimming (specify ballast)	3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast	277 = 277V 347 = 347V
				<i>For 2 lamp units</i> Blank = single ballast 2/1L = (2) 1-lamp ballasts	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

**Requires dedicated voltage ballast on 3-lamp models

***For 1-5/8" please specify.

Options	Accessories
L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed) FL4 = 3/8", 6' flex with two #18, one ground and two connectors FL5 = 3/8", 6' flex with three #18, one ground and two connectors M = Master; includes 9" intertie and snap-in connector S = Satellite; includes snap-in connector FB = Fast Blow Fuse SB = Slow Blow Fuse BP = Bulk Pack LG = Lens Gasketing LDG = Lens and Door Gasketing LDFG = Lens, Door, and Frame Gasketing M4 = MIRO 4 reflector (93% reflectivity)	EC = Earthquake Clip, 4-pack <i>FTI (Flange Trim Kits)</i> FTI 12 = 1' x 2' FTI 14 = 1' x 4' FTI 22 = 2' x 2' FTI 24 = 2' x 4'



TY, TK, TB



XT Specification Grade Troffers are equipped with 4 1/2" deep housing with 2 5/16" lens-to-lamp spacing to balance light diffusion and reduce lamp image.

Housing

High quality 22 gauge CRS construction. Unit is 4 1/2" deep. All metal parts receive durable high gloss powder coat post painted finish over rust inhibiting phosphate coat. Minimum reflectance is 90%.

Shielding

Clear acrylic prismatic lens with .125" deep cut #12 pattern installed in steel door with overlapping mitered corners, T-type hinges and positive-fit cam latches. Light traps and gasketing installed.

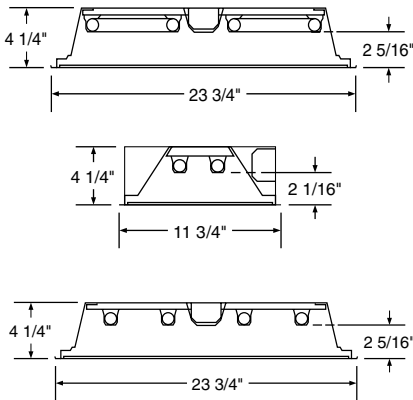
Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Lay-in troffer for NEMA type G T-bar ceilings. Integral earthquake clips. GCK kit available for sheetrock ceilings (page 91).

Dimensions



XT Series Ordering Information

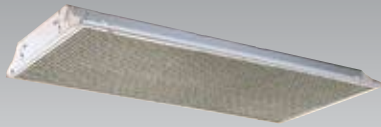
Series	Diffuser	Depth	Size	# Lamps	Lamp Type
XT = Powder-coat, lay-in	K = .125 clear prismatic acrylic (standard)	P = 4 1/2"	124 = 1x4	2	32 = (2) 32W 48" T8
	B = .125 clear prismatic polycarbonate		242 = 2x2	3	32U = 32W U6" T8*
	U = .156 prismatic acrylic		244 = 2x4	4	40TT = 40W 22" TT
	Y = .090 prismatic acrylic				For T5, Contact Factory

* For 1 5/8" please specify

Options	Ballast	Voltage	Switching
SR = Specular Reflector	B11 = Electronic T8	UNV = 120-277V	For 3 and 4 lamp units
ELS1 = Emergency Lighting (low lumens)	B11HP(x) = HPT8*	120 = 120V	Blank = dual ballasts
ELS2 = Emergency Lighting (medium lumens)	B14 = Electronic TT	277 = 277V	3L = (1) 3-lamp ballast
ELS3 = Emergency Lighting (high lumens)			4L = (1) 4-lamp ballast
			For 2 lamp units
			Blank = single ballast
			2/1L = (2) 1-lamp ballasts

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options	Accessories
L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed)	EC = Earthquake clips, 4-pack
FL4 = 3/8", 6' flex with two #18, one ground and two connectors	
FL5 = 3/8", 6' flex with three #18, one ground and two connectors	
LG = Lens Gasketing	
LDG = Lens and Door Gasketing	
LDFG = Lens, Door, and Frame Gasketing	
M = Master; includes 9' intertie and snap-in connector	
S = Satellite; includes snap-in connector	



TT 244



Benefits

- Top embossments for strength.
- Ballast embossment provides full contact for superior heat dissipation.
- Strengthening ribs on sides.
- Full access plate with double KOs. Screws included.
- Integral T-bar clips on 2' wide models.
- End plate attachment with screws, not tabs.
- Uprturned side rail edge for rigidity and safer handling.
- Mitered door corners for better fit than overlap corners.
- Improved large cam latches open door with ease. No tools needed!
- Full depth 1/2" door accepts 1/2" louver without notching.
- Built-in lens retainers.
- Door end screws — not tabs! — for strength and easy lens replacement.
- Built-in door hinge on side rail. No pop rivets.
- Ballast cover tabs prevent pinched wires.
- Passes torque test for strength and minimal overall sag.
- Superb lamp spacing: 4 1/8" centers on 4-lamp fixtures. Allows lamp removal in any order.
- Lamp-pin slots for ease of lamp installation.
- Socket bar held in place with slot tab — removable from inside fixture.
- Hemmed end plate. Double-thick fold adds strength and eliminates sharp edge.
- Machine-installed shunts eliminate loose socket bar connections on electronic troffers.

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Flush white steel door frame with mitered corners that can be hinged from either side. Swing-action cam latches provide positive fit. Light traps standard. Access plate providing two KOs and ground screw.

Louver Options

Silver and Gold finishes available. Louvers with white transmission overlays also available.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Lay-in (T) or Flange (F) troffer. 2 x 2 and 2 x 4 flanged fixtures require field assembly. For flange kit (FTI) see page 91. Optional Earthquake Clip (EC) for lay-in grid ceilings.



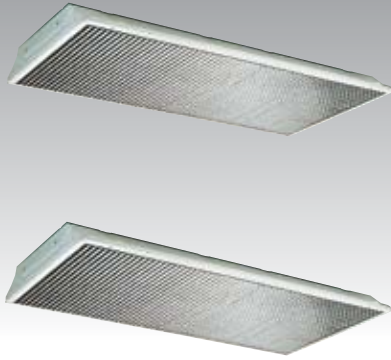
TE, XTE, FE, XFE SERIES parabolic: Semi-specular aluminum parabolic louver, 3 1/2" square.



TA, FA series SMALL CELL louver: 1/2" x 1/2" x 1/2" cell specular silver parabolic louver, PL1. 44° shielding from all angles, excellent brightness control.



TS, FS series 1 1/2" supercube louver: 1 1/2" x 1 1/2" x 1" cell specular silver parabolic louver, PL2. 38° shielding from all angles, excellent brightness control.



TT, FT High Visual Comfort Louver:

3/4" x 3/4" x 1/2" cell specular silver parabolic louver, PL3 with high transmission overlay directs light down to work surface while overlay reduces glare. 36° shielding from all angles.

TJ, FJ Double Wedge Parabolic:

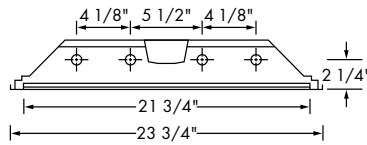
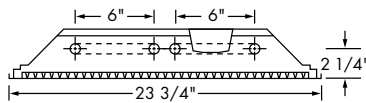
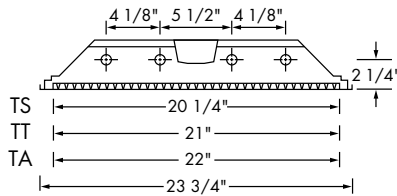
3/4" x 3/4" x 1/2" cell specular silver parabolic louver, PL3, efficiently directs light to work surface. Double wedge cell. 35° shielding from all angles.

T Series Ordering Information

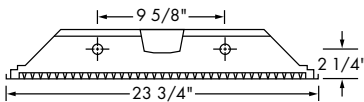
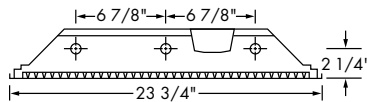
Series	Louver	Door Frame	Size	# Lamps
F = Flange	A = 1/2" x 1/2" x 1/2" cell	Steel, white (standard)	124 = 1 x 4	2
T = Lay-in	E = (Semi specular aluminum)	FW = Flush, aluminum, white	242 = 2 x 2	3
XF = Powder coat, flange	1 x 4 with 26 cells (2 rows of 13)	RW = Regressed, aluminum, white	244 = 2 x 4	4
XT = Powder coat, lay-in	2 x 2 with 36 cells (6 rows of 6)			
	2 x 4 with 78 cells (6 rows of 13)			
	J = 3/4" x 3/4" x 1/2" cell			
	L = 1/2" x 1/2" x 1/2" egg crate, white*			
	S = 1-1/2" x 1-1/2" x 1"			
	T = 3/4" x 3/4" x 1/2" cell with overlay			

*Only available with standard door frame

Dimensions



TY, TK, TB



Lamp Type	Louver Finish	Options	Ballast	Switching
14 = 14W 24" T5	S = Silver specular (standard)	SR = Specular Reflector	B11 = Electronic T8	For 3 and 4 lamp units
24 = 24W 24" T5HO	G = Gold	ELS1 = Emergency Lighting (low lumens)	B11HP(x) = HPT8***	Blank = dual ballasts
28 = 28W 48" T5		ELS2 = Emergency Lighting (medium lumens)	B12 = Electronic T5	3L = (1) 3-lamp ballast
32 = 32W 48" T8		ELS3 = Emergency Lighting (high lumens)	B14 = Electronic TT	4L = (1) 4-lamp ballast
32U = 32W U6" T8*			D = Dimming (specify ballast)	For 2 lamp units
40TT = 40W 22" TT**				Blank = single ballast
54 = 54W 48" T5HO				2/1L = (2) 1-lamp ballasts

*For 1-5/8" please specify.

**Requires dedicated voltage ballast on 3-lamp models.

***CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Voltage	Options	Accessories
UNV = 120-277V	L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed)	EC = Earthquake Clip, 4-pack
120 = 120V	FL4 = 3/8", 6' flex with two #18, one ground and two connectors	FTI (Flange Trim Kits)
277 = 277V	FL5 = 3/8", 6' flex with three #18, one ground and two connectors	FTI 12 = 1' x 2'
	M = Master; includes 9' intertie and snap-in connector	FTI 14 = 1' x 4'
	S = Satellite; includes snap-in connector	FTI 22 = 2' x 2'
	FB = Fast Blow Fuse	FTI 24 = 2' x 4'
	SB = Slow Blow Fuse	
	BP = Bulk Pack	
	LG = Lens Gasketing	
	LDG = Lens and Door Gasketing	
	LDFG = Lens, Door, and Frame Gasketing	



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Access plate (topside) provided with two KOs and ground screw.

Reflector

Downward throw asymmetric reflector with semi-specular finish offers high optical performance, producing even light to vertical surface from single twin-tube lamp.

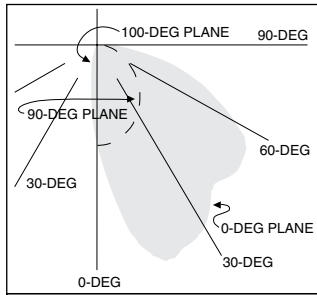
Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Recommended mounting position 36" from wall. Includes integral hang tabs. Offset ends for continuous row mounting.

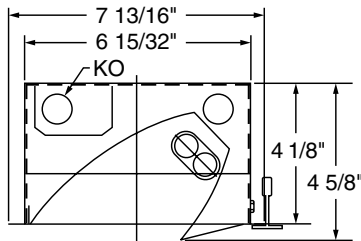
TWW Series Ordering Information



Contact factory for additional photometric data.

Series	Size	Lamps	Ballast	Voltage
TWW	82 = 8" x 2'	140 = (1) 40W 22 1/2" twin tube (2' model)	B14 = Electronic TT	UNV = 120-277V
	84 = 8" x 4'	240 = (2) 40W 22 1/2" twin tube (4' model)		120 = 120V
		250 = (2) 50W 22 1/2" twin tube (4' model)		277 = 277V

Dimensions

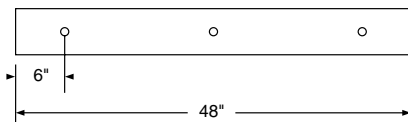
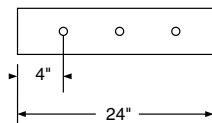
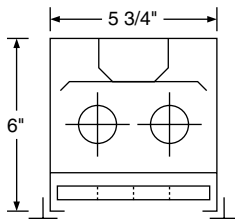




Simkar's TY66 Cube is a recessed 6" x 6" troffer, with either an acrylic prismatic diffuser or aluminum baffle louver, ideal for lobbies and corridors.



Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. End knockouts for through wire.

Shielding

Pattern A-12 prismatic acrylic lens standard.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Lay-in for T-bar ceilings.

TY66 Series Ordering Information

Series	Diffuser	Size	Lamps
T	Y = acrylic prismatic (standard) E = Aluminum baffle, semi-specular	66 = 6" x 6"	217 = (2) 17W 24" T8 232 = (2) 32W 48" T8

Emergency Lighting	Ballast	Voltage
ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8	UNV = 120-277V
ELS2 = Emergency Lighting (medium lumens)	B11HP(x) = HPT8*	120 = 120V
ELS3 = Emergency Lighting (high lumens)		277 = 277V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



Fluorescent SURFACE

There are many reasons why a surface mounted fixture is desired ranging from replacement of an existing fixture or decorative element to installation because of limited access to the plenum.

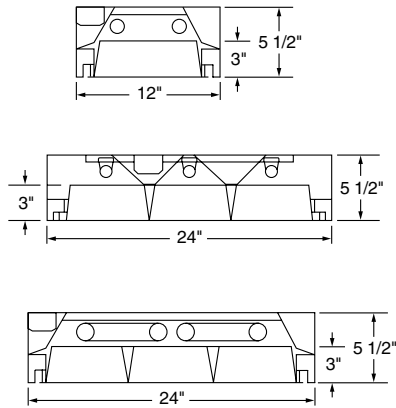
Simkar offers a full range of surface mount fixtures including wraps, flat lensed and parabolics in T8 and T5 versions with options that include occupancy sensors and multiple ballasts to meet switching requirements or for additional energy saving in stairways and corridors. Surface mount fixtures can be mounted in continuous rows or individually and are available in low profile versions as well as decorative suspended models.

Whether you need CFL, U, or linear fluorescent surface mount fixtures, Simkar is the solution.



SEP Surface Parabolic is the solution for spaces where recessed units cannot be used. The SEP is ideal for retail or commercial environments, providing a touch of character and style.

Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white post-painted enamel finish over rust inhibiting phosphate coat. Optional KOs available for continuous row mounting.

Shielding

Uniform low brightness in 60°-90° zone achieved with 3" deep low iridescence, anodized semi-specular aluminum parabolic louver. Hinged louver also available in white and gold.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Surface mount. Four stems required for suspension mounting.

SEP Ordering Information

Series	Size	# Lamps	Lamp Type	Cell Configuration	Louver Finish
SEP	124 = 1 x 4	2	14 = 14W 24" T5	8C = (1 x 4) 1 row of 8	G = Gold S = Specular Aluminum W = White
	242 = 2 x 2	3	17 = 17W 24" T8	9C = (2 x 2) 3 rows of 3	
	244 = 2 x 4	4	32 = 32W 48" T8 32U = 32W U6" T8* 40TT = 40W 22" TT	12C = (2 x 4) 2 rows of 6 18C = (2 x 4) 3 rows of 6 24C3X8 = 2x4 (3 rows of 8) 24C4X6 = 2x4 (4 rows of 6) 32C = (2 x 4) 4 rows of 8	

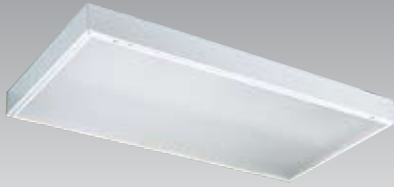
*For 1 5/8" please specify; required for 3 lamp 32U.

Options	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8	For 3 and 4 lamp units Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast	UNV = 120-277V 120 = 120V 277 = 277V
ELS2 = Emergency Lighting (medium lumens)	B11HP(x) = HPT8*		
ELS3 = Emergency Lighting (high lumens)	B14 = Electronic TT		
		For 2 lamp units Blank = single ballast 2/TL = (2) 1-lamp ballasts	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options

- L = Lamps Installed (Specify Lamps)
- SR = Specular reflector



SYLP Shallow Surface Series utilizes a shallow 3" housing for surface or pendant mount to provide an unassuming light source in any retail or commercial environment.

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided.

Shielding

A-12 pattern clear acrylic or polycarbonate prismatic lens and cubed louvers installed in flush white steel door that can be hinged from either side. Slide-action latches provide positive fit. Light seal standard.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

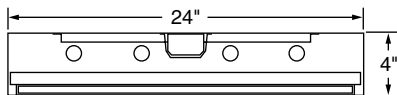
Surface or stem mount. Use four stems per 2x2 or 2x4, two for 1x4 unit. White canopies available.

SYLP Series Ordering Information

Series	Diffuser	Depth	Size
S	Y = Clear prismatic acrylic (standard) A = 1/2" x 1/2" x 1/2" cell J = 3/4" x 3/4" x 1/2" cell L = 1/2" x 1/2" x 1/2" egg crate, white B = .125 clear prismatic polycarbonate K = .125 clear prismatic acrylic P = Drop dish W = Flat white acrylic	LP = Low profile (3")	124 = 1 x 4 242 = 2 x 2 244 = 2 x 4

# Lamps	Lamps	Options	Ballast	Switching
1	17 = 17W 24" T8	ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8	For 3 and 4 lamp units Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast For 2 lamp units Blank = single ballast 2/1L = (2) 1-lamp ballasts
2	28 = 28W 48" T5		B11HP(x) = HPT8 (NBF)**	
3	32 = 32W 48" T8	ELS2 = Emergency Lighting (medium lumens)	B12 = Electronic T5	
4	32U = 32W U6" T8* 54 = 54W 48" T5HO	ELS3 = Emergency Lighting (high lumens)	D = Dimming (specify ballast)	

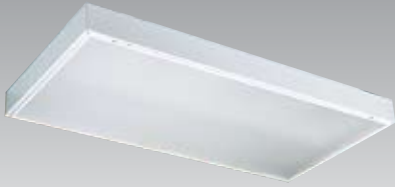
Dimensions



* For 1-5/8" please specify

**CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Voltage	Options	Accessories
UNV = 120-277V 120 = 120V 277 = 277V	SR = Specular reflector	PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72) C = Single White Canopy 1x4 models require 2 stems 2x2 and 2x4 models require 4 stems



SY Series utilizes a 4" housing for surface or pendant mount to provide an unassuming light source in any retail or commercial environment.

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided.

Shielding

Cubed louvers installed in flush white steel door that can be hinged from either side. Slide-action latches provide positive fit. Light seal standard.

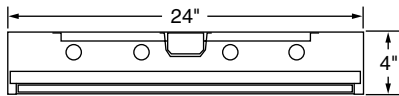
Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Surface or stem mount (PM2). Use four stems per 2x2 or 2x4, two for 1x4 or 6x6 unit.

Dimensions



SY Ordering Information

Series	Louver	Size	# Lamps	Lamps
S	E = (Semi specular aluminum)	124 = 1 x 4	1	14 = 14W 24" T5
	1 x 4 with 26 cells (2 rows of 13)	242 = 2 x 2	2	17 = 17W 24" T8
	2 x 2 with 36 cells (6 rows of 6)	244 = 2 x 4	3	32 = 32W 48" T8
	2 x 4 with 78 cells (6 rows of 13)		4	32U = 32W U6" T8
	S = 1-1/2" x 1-1/2" x 1"			

Options	Ballast	Voltage	Accessories
ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens) SR = Specular reflector	B11 = Electronic T8 B11HP(x)* = HPT8	UNV = 120-277V 120 = 120V 277 = 277V	PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72) C = Single White Canopy 1x4 models require 2 stems 2x2 and 2x4 models require 4 stems

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



SY66 (6" depth) surface fixture

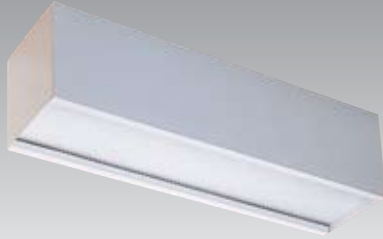
SY66 Ordering Information

Series	Lens/Louver	Size	# Lamps	Lamp Type
S = Surface mounted	Y = Clear prismatic acrylic (standard)	66 = 6"x6"	1	17 = 17W 24" T8
	E = Semi specular aluminum*		2	25 = 25W 36" T8 32 = 32W 48" T8

*Contact factory

Ballast	Voltage
B11 = Electronic T8 B11HP(x) = HPT8*	UNV = 120-277V 120 = 120V 277 = 277V

* CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



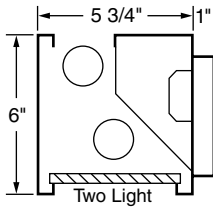
WY66-DI shown with standard prismatic diffuser.

WY66 and WE66 Series wall-mounted fixtures provide versatile direct/indirect illumination for a range of task lighting applications.

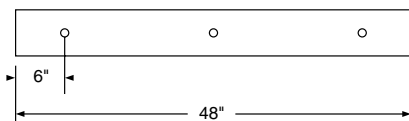
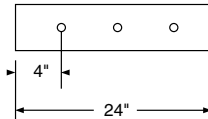


Fixture provides both uplight and downward illumination.

Dimensions



Wall model shown with WMB wall bracket.



Housing

Sturdy steel body.

Shielding

acrylic prismatic diffuser (WY), shielding (WE), or open bottom, open top.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

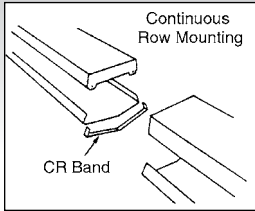
Surface wall mount designed for horizontal mounting.

WY66 and WE66 Wall Task Lighting Ordering Information

Series	Feature	Lamps
WY66 = Prismatic bottom WE66 = Aluminum louver bottom	DI = Direct/indirect down/uplight LN = Less lens for open bottom	217 = (2) 17W 24" T8 232 = (2) 32W 48" T8

Ballast	Voltage
B11 = Electronic T8 B11HP(x) = HPT8*	UNV = 120-277V 120 = 120V 277 = 277V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



SY920 Low Profile Wraparound utilizes a shallow 3 1/4" housing. Self-spacing unit is suitable for low-density cellulose fiberboard ceilings.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Standard white ends are injection molded. Knockouts provided.

Shielding

Clear DR acrylic prismatic lens; smooth white also available. Lens hinges from either side.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Ceiling surface mount individual or continuous row (with CR bands). Only one CR band supplied with every tandem unit. For continuous row mounting, additional CR bands are needed. Tandem two-lamp model available. Use stabilizer bracket kit for four-lamp pendant hung models.

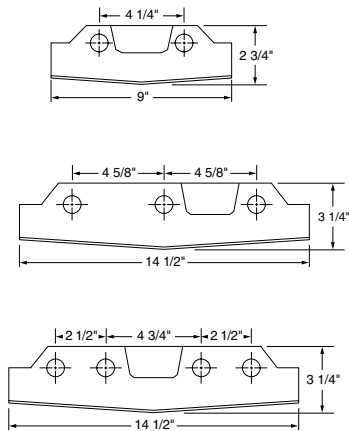
SY920 Series Ordering Information

Series	# Lamps	Lamp Type
SY920 = prismatic lens (standard)	2	14 = 14W 24" T5
SW920 = smooth white lens	3	17 = 17W 24" T8
	4	20 = 20W 24" T12
	22 = Tandem, 4 lamps	24 = 24W 24" T5HO
		25 = 25W 36" T8
		28 = 28W 48" T5
		32 = 32W 48" T8
		40 = 34 or 40W 48" T12
		54 = 54W 48" T5HO

Options	Ballast	Switching	Voltage
SR = Specular reflector	B5	<i>For 3 and 4 lamp units</i>	UNV = 120-277V
ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8	<i>Blank</i> = dual ballasts	120 = 120V
ELS2 = Emergency Lighting (medium lumens)	B11HP(x) = HPT8*	3L = (1) 3-lamp ballast	277 = 277V
ELS3 = Emergency Lighting (high lumens)	B12 = Electronic T5	4L = (1) 4-lamp ballast	
<i>NOTE: 3 lamp models require low profile emergency ballast</i>	B22 = LPF T8/T12	<i>For 2 lamp units</i>	
		Blank = single ballast	
		2/1L = (2) 1-lamp ballasts	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Dimensions



Accessories

- CR** = Continuous row mounting band
- STBK** = Stabilizer Bracket Kit



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Hinges from either side for easy maintenance.

Shielding

Clear DR acrylic prismatic lens for improved impact resistance.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Individual or continuous row (CR), surface mount. Only one CR band supplied with every tandem unit. For continuous row mounting, additional CR bands are needed.

SY950 Wraparound with clear prismatic lens is available in 2, 3, or 4-lamp models and tandem configurations, with T5 or T8 lamps. All models are suitable for low-density ceiling mount applications.



SY950 Ordering Information

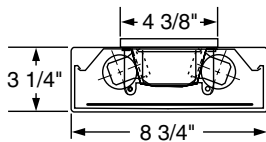
Series	# Lamps	Lamp Type
SY950	2	14 = 14W 24" T5
	3	17 = 17W 24" T8
	4	24 = 24W 24" T5HO
	22 = Tandem, 4 lamps	28 = 28W 48" T5
		32 = 32W 48" T8
		54 = 54W 48" T5HO

Options	Ballast	Voltage
SR = Specular reflector	B11 = Electronic T8	UNV = 120-277V
ELS1 = Emergency Lighting (low lumens)	B11HP(x) = HPT8*	120 = 120V
ELS2 = Emergency Lighting (medium lumens)	B12 = Electronic T5	277 = 277V
ELS3 = Emergency Lighting (high lumens)		

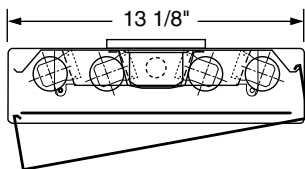
NOTE: 3 lamp models require low profile emergency ballast

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

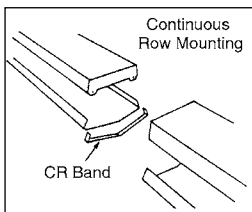
Dimensions



2 Lamp

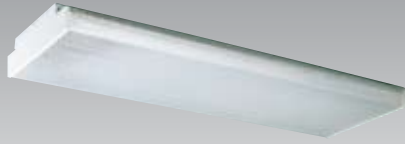


4 Lamp



Accessories

CR = Continuous row mounting band



Simkar's SN990 Glare Reducing Wraparound fixture is equipped with injection-molded acrylic basket diffuser with a flat bottom and vertical sides to provide uniform, low surface brightness.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided.

Shielding

Injection molded acrylic patterned prismatic for low surface glare is standard. Enhanced optics lens (SO990) also available.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

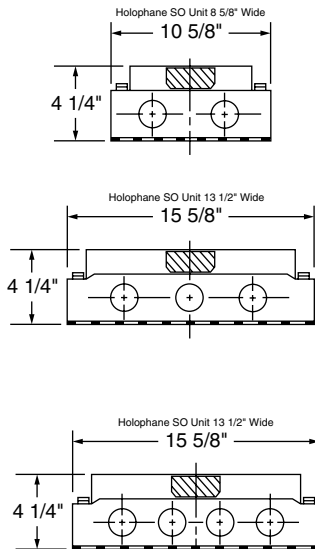
Individual stem or surface mount.

SN990 Ordering Information

Series	# Lamps	Lamp Type	Options
SN990 = Standard Lens 2L is 10 5/8" wide 3 and 4L are 15 5/8" wide	2 3 4	32 = 32W 48" T8	ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)
SO990* = Holophane® Lens 2L is 8 5/8" wide 3 and 4L are 13 1/2" wide	22 = Tandem, 4 lamps		

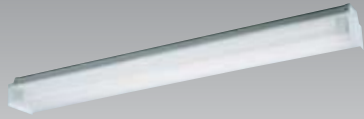
*Consult factory for availability

Dimensions



Ballast	Voltage	Accessories
B11 = Electronic T8 B11HP(x) = HPT8*	UNV = 120-277V 120 = 120V 277 = 277V	PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72) C = Single White Canopy

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



SY130 Clear Prismatic Flat Lens Narrow Wraparound is available in single-lamp 2', 3', 4' and 8' tandem. A two-lamp model is available in 2', 4' and 8' tandem T5 and T8. SY130 is intended for ceiling mount applications.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided.

Shielding

Clear DR acrylic prismatic lens for improved impact resistance.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Individual or continuous row stem or surface mount. Only one CR band supplied with every tandem unit. For continuous row mounting, additional CR bands are needed.

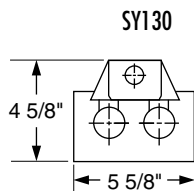
SY130 Series Ordering Information

Series	# Lamps	Lamps	Options
SY130	1	14 = 14W 24" T5	ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)
	2	17 = 17W 24" T8	
	21 = Tandem, 2 lamps	24 = 24W 24" T5HO	
	22 = Tandem, 4 lamps	25 = 25W 36" T8	
		28 = 28W 48" T5	
		32 = 32W 48" T8 54 = 54W 48" T5HO	

Ballast	Voltage	Accessories
B11 = Electronic T8 B11HP(x) = HPT8*	UNV = 120-277V 120 = 120V 277 = 277V	PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72) C = Single White Canopy CR = Continuous row mounting band

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Dimensions





SP175

SP175 Smooth White acrylic Wraparound is available in single-lamp, 2', 3', 4' and 8' tandem T8. Unit is dust proof and suitable for wall mount.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided.

Shielding

Milk white acrylic.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Individual or continuous row. Stem or surface mount. Order accessory CR-SP175 for continuous row mounting.

SP175 Series Ordering Information

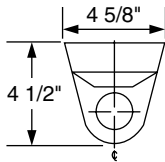
Series	# Lamps	Lamps
SP175	1 21 = Tandem, 2 Lamps (32W only)	17 = 17W 24" T8 25 = 25W 36" T8 32 = 32W 48" T8

ELS Option	Ballast	Voltage
ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8 B11HP(x) = HPT8*	UNV = 120-277V 120 = 120V 277 = 277V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Accessories
PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72) C = Single White Canopy CR-SP175 = Continuous row mounting band

Dimensions





Cable Mounting

SLP Low Profile combines a sleek low-profile design, smooth white acrylic lens and die-cast brushed metal ends to create a high-tech designer appearance. The unit can be surface mounted or cable hung with 1/16" aircraft cable, as shown. The SLP is ideal for office, residential and light commercial space.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Ends are hand finished to a stainless steel look. Inside is grooved to accept acrylic lens and avoid light loss.

Shielding

Smooth milk white formed acrylic.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A electronic ballast as standard unless otherwise specified. UL listed.

Mounting

Flush mounted or cable hung with CACC Suspension Kit. CACC Suspension Kit includes white cord, white canopies and 1/16" aircraft cable. Individual mounting only. See page 91.

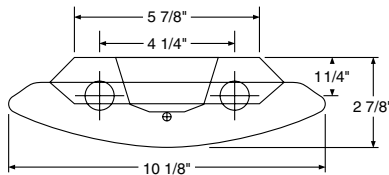
SLP Series Ordering Information

Series	Ends	Lamps	Ballast	Voltage
SLP	M = Brushed metal W = White	217 = (2) 17W 24" T8 232 = (2) 32W 48" T8	B11 = Electronic T8 B11HP(x) = HPT8* B22 = LPF T8/T12	UNV = 120-277V 120 = 120V 277 = 277V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

ELS Options	Accessories
ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	CACC(xx) = Cable Kit, includes 2 cables, mounting hardware, white power cord and canopies; specify length in inches (48 or 72)

Dimensions





SMC Cloud



SMCLP Low Profile Cloud

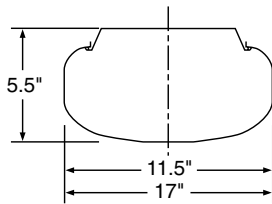


SMCW Wall Mini Cloud

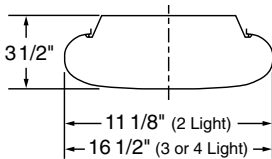
SMC Clouds, SMCW Mini Clouds, and SMCLP Low Profile Clouds provide soft, even, diffused light from a flawless white acrylic diffuser. SMC and SMCLP Lift and Shift diffuser for easy relamping and cleaning without tools. Coordinated ceiling and wall models unify separate rooms and living spaces. SMCLP hugs close to the ceiling with a depth of only 3 1/2".



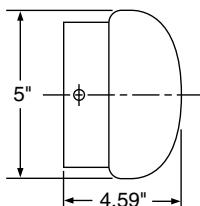
Dimensions



SMC fixtures are available in 28" and 52" models.



SMCLP fixtures, available in 52" length only, are 2/3 the depth of traditional clouds.



SMCW fixtures are available in 27", 39" and 51" models.

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat.

Shielding

Frameless white acrylic diffuser with D.R. for added durability and even efficient illumination on SMC and SMCLP units. SMCLP shielding is only 3 1/2" deep. SMCW model uses brass caps to hold diffuser in place.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

SMC and SMCLP (ceiling) and SMCW (wall).

SMC Series Ordering Information

Series	# Lamps	Lamps	ELS Options***
SMC = Cloud	2	17 = 17W 24" T8**	ELS1 = Emergency Lighting (low lumens)
SMCW = Wall Mini Cloud (2 lamp only)	3	20 = 20W 24" T12	ELS2 = Emergency Lighting (medium lumens)
SMCLP = Low Profile Cloud*	4	32 = 32W 48" T8	ELS3 = Emergency Lighting (high lumens)
		40 = 34 or 40W 48" T12	
		54 = 54W T5HO	

*Low Profile available in 48" electronic T8 only.

**SMCW Only

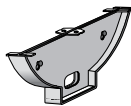
***SMCLP 3-lamp units require low profile emergency battery packs.

Ballast	Voltage
B5 = Electronic T12	UNV = 120-277V
B11 = Electronic T8	120 = 120V
B11HP(x) = HPT8*	277 = 277V
B22 = LPF T8/T12	

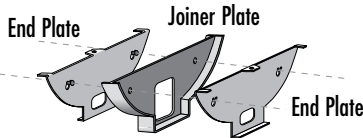
*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



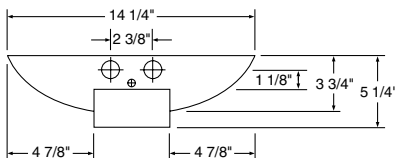
LDI Linear Direct/Indirect fixtures have a bold, yet practical, look ideal for commercial environments and schools. One-piece housing ensures no sagging. Time saving "keyhole" end plate design for lift and slide continuous row installation. Electronic ballast saves energy and has no hum and no flicker.



Linear Row Mounting



Dimensions



Housing

One-piece steel housing with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Continuous row end plates designed for easy linear mounting.

Reflector

Perforated housing with translucent milk white acrylic overlay allows ambient light distribution. Individually mounted units supplied with formed plastic end plates that will not fade or discolor.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A electronic ballast as standard unless otherwise specified. UL listed.

Mounting

Individual or continuous row pendant mount with aircraft cable or stem/canopies. Continuous row fixtures include joiner plate to eliminate light leak, order LDJJP and LDIEC separately. Row units available in 4' and 8' increments only.

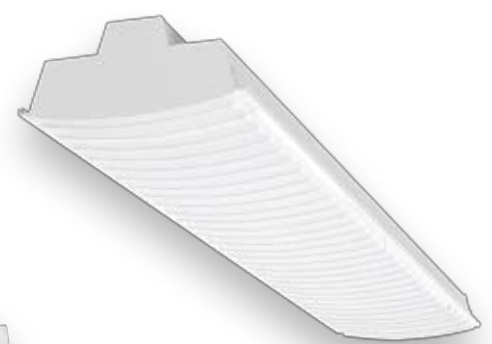
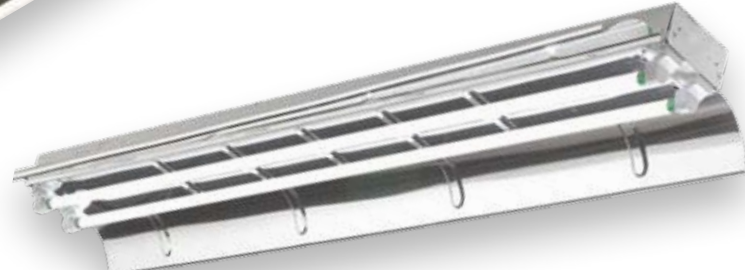
LDI Series Ordering Information

Series	Lamps	Options
LDI	232 = (2) 32W 48" T8	ELS1 = Emergency Lighting (low lumens)
LDII = individual with 2 end caps	254 = (2) 54W 48" T5HO	ELS2 = Emergency Lighting (medium lumens)
	2232 = (4) Tandem 32W 48" T8	ELS3 = Emergency Lighting (high lumens)
	2254 = (4) Tandem 54W 48" T5HO	

Ballast	Voltage	Accessories
B11 = Electronic T8	UNV = 120-277V	LDJJP = Linear Direct/Indirect Joiner Plate, order one less than number of fixtures.
B11HP(x) = HPT8*		LDIEC = Linear Direct/Indirect End Cap, order 1 pair for each row.
B12 = Electronic T5		LDIPM(x)** = Pendant Mount Kit, includes 2 white stems, mounting brackets and canopies - specify length in inches (24, 36, 48, 60, 72)
		CACC(x)** = Cable Kit, includes 2 cables, mounting hardware, white power cord and canopies; specify length in inches (48 or 72)

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

**Requires 1 Pendant Mount or Cable Kit per 4' or 8' tandem unit



Fluorescent INDUSTRIAL, STRIPS & CHANNELS

Simkar is proud to introduce the most innovative and comprehensive Industrial Lighting offering available. Our product range covers applications from basic strips to super efficient and innovative Fluorescent Hi-bays combining the best materials with energy efficient electronics and light sources to provide not just a solution but the best solution for almost any environment.

Adjust-a-Bay fluorescent bay lighter combines energy efficient T5 or T8 lamps with a unique, adjustable socket bracket

that positions the lamps to provide three different beam patterns. The tool-less adjusting knobs allow the fixture to be used in hi-bay, mid-bay or low-bay applications as needs change. Combined with reflect-a-bay Simkar has a solution for every fluorescent bay-lighting need.

EN2 and EN3 provide superior performance in harsh environments.

Latitude adds a decorative flair in areas where form and function are both a factor.



This energy-efficient new product has the flexibility to provide lighting in industrial, educational, or retail applications. **Adjust-a-Bay** offers 3-way user adjustability to perform as a low bay, high bay or aisle lighter. Units are available with T5 or T8 lamps in a four or six lamp configuration. Optional uplight provides the ultimate in design flexibility.

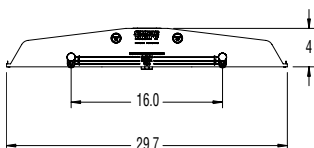
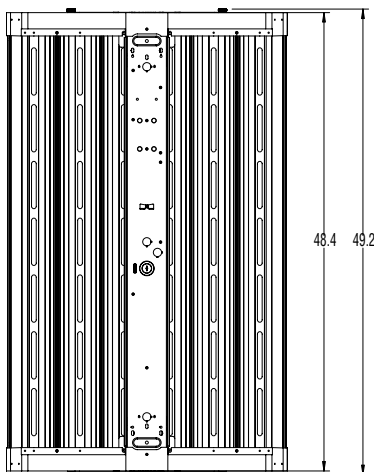
T5 Fixture: 55° C Ambient Temperature
T8 Fixture: 35° C Ambient Temperature



UL Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Height	Approx. Ship Wt.
432/454	48.4"	19"	4"	21 lbs.
632/654	48.4"	29.7"	4"	28 lbs.



Housing

Fixture has a die formed heavy gauge steel ballast channel with a high-gloss baked white enamel finish over rust-inhibiting phosphate coat. Die-cast aluminum ends have galvanized steel side rails. A hinged ballast channel cover with captive hardware can be opened without tools. Fixture is shipped fully wired. Ample knockouts provided.

Adjustable Optics

Tool-free, adjustable optics assembly provides three user-selectable light distribution patterns: narrow for aisle lighting; medium for high bay; and wide for low bay applications. Easily change the position of the lamp assembly within the reflectors utilizing two thumb screws located on each end cap.

Electrical

Fully wired for 120-277V, 50-60 Hz operation with thermally protected, automatic resetting, Class P, Sound rated A, programmed-start, electronic T5 HO ballast. The 6 lamp unit contains 1-(2) lamp and 1-(4) lamp T5 HO ballast. The 4 lamp unit contains 1-(4) lamp T5 HO ballast as standard. Switch from 6-4, 6-2, 6-0, 4-2, 4-0. Low voltage, high-2-low control on six lamp unit. System watts are 224W (ADJUST 454) and 360W (654). UL listed.

Reflector

The Adjust-a-Bay incorporates computer designed, faceted, extra wide and deep, highly reflective MIRO 4 reflectors which offer 95% reflectance. Sharp cut-off produces maximum usable lumens and minimizes glare. Slotting is available on all reflectors for cooler operation and upright. Seven slots are located on each reflector. Each slot measures 1/2" wide x 5" long.

Mounting Options

A variety of mounting options are available: surface, pendant, chain hanger assembly, adjustable cable, mono-point hook or slide box. Please order mounting accessories separately.

Light Distribution Settings



The narrow setting provides uniform illumination for tall, vertical surfaces like racking and increased horizontal illumination for aisles below. The middle setting is excellent for mounting heights above 20 feet, while the wide setting provides glare-free illumination at lower mounting heights (below 20 feet). Use the multi-purpose Adjust-a-Bay to light an entire facility to simplify installation and maintenance.

Adjust-a-Bay Ordering Information

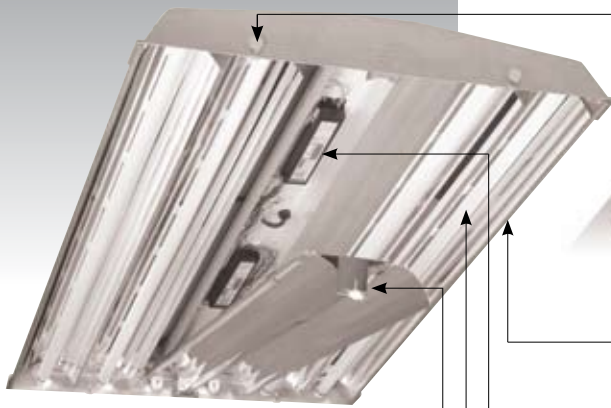
Series	# Lamps	Lamp Type	Aperture	Options	Ballast
ADJUST	4	28 = 28W 48" T5	<i>Solid reflector is standard</i>	ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8
	6	54 = 54W 48" T5HO	A = Aperture; upright ranges from 7% to 12%	ELS2 = Emergency Lighting (medium lumens)	B11HP(x) = HPT8*
		32 = 32W 48" T8		ELS3 = Emergency Lighting (high lumens)	B11VHO = T8 Very High Output B12 = T5

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Ballast Options	Switching	Voltage	Options
HBF = High Ballast Factor HT = High Temperature (Not available with HBF) PS = Program Start (Recommended for use with occupancy sensor)	<i>For 4 lamp units</i> 4L = (1) 4-lamp ballast (standard) 2/2L = (2) 2-lamp ballasts <i>For 6 lamp units</i> Blank = (1) 4-lamp ballast and (1) 2-lamp ballast (standard) 2/3L = (2) 3-lamp ballasts	UNV = 120-277V U34 = 347-480V 347 = 347V 480 = 480V	OS(x) = Occupancy Sensor (specify # of lamps controlled - 2, 4, 6 or 8) OSI(x) = Occupancy Sensor; factory-installed (specify # of lamps controlled - 2, 4, 6 or 8) OSDL(x) = Daylight Sensor (specify # of lamps controlled - 2, 4, 6 or 8) FB* = Fast blow fuse SB* = Slow blow fuse BP = Bulk Pack <u>6' Cord and Plug</u> CPT(x) 1 = 120V 2 = 277V 3 = 208V 4 = 340V 5 = 480V CP3 = Cord & Plug - 120V Straight Blade 5-15P

Mounting	Accessories
CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24" PM(x) = Twin Pendant Mount - 2 white stem kits - specify length (24", 36", 48", 60", 72") SN = Snapper Bracket - 1-3/4" for surface mounting or twist and lock onto T-Bar (order 2) HKSC = Hook & Chain Assembly - Monopoint mount to four point suspension. (Includes hook, chain, and mounting plate) CAB72 = Adjustable Cables - includes (4) 6-foot steel aircraft cables, toolless adjusters and mounting hardware.	AWG4 = 4 Lamp Heavy-Duty Wire Guard AWG6 = 6 Lamp Heavy-Duty Wire Guard AWG4T = 4 Lamp Heavy-Duty Wire Guard - Top (Recommended for gym applications) AWG6T = 6 lamp heavy-duty wire guard - Top (Recommended for gym applications) ADJ4 = 4 Light acrylic Lens (Lift And Shift) ADJ6 = 6 Light acrylic Lens (Lift And Shift) WADJ4 = 4 Light acrylic Lens And Heavy Duty Wire Guard Combo WADJ6 = 6 Light acrylic Lens And Heavy Duty Wire Guard Combo

See the light ... see the difference in your energy bills

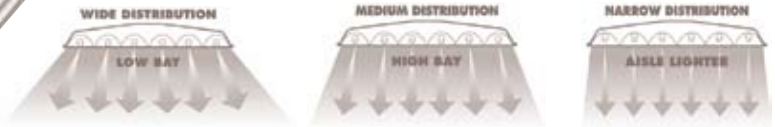


The **Adjust-a-Bay** offers the following unique features to provide non-stop energy savings and lower installation & maintenance costs:

- Adjustable optics; three settings
- Energy saving; electronic T5 HO and T8 systems
- Exposed reflectors for cooler, cleaner operation
- Extra deep and wide reflectors for superior light control
- Tool-less ballast access
- Flexible mounting options

Put Light Where You Want It

Three user-selectable beam patterns for maximum illumination from a minimum number of fixtures.



Superior Illumination

Extra deep and wide MIRO 4 reflectors punch light downward for maximum horizontal and vertical illumination with less glare.



Same Light at a Lower Cost

Control-friendly, energy efficient programmed start ballast minimizes input watts and optimizes lamp life. Combine with optional motion sensor to increase savings. Nothing saves like turning the lights off!



Runs Cooler, Stays Cleaner

Thermally efficient, fully exposed reflectors maximize lumen output at higher ambient temperatures and repel dirt. Self-cleaning convective airflow keeps the fixture cool.

Circulating convective airflow



Easy to Access

Tool-less ballast access via captive thumbscrew for quick installation and servicing. Don't waste valuable labor and equipment time fiddling with screws.



MIRO™ is a registered trademark of Alanad

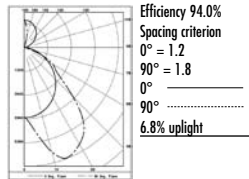
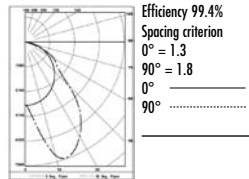
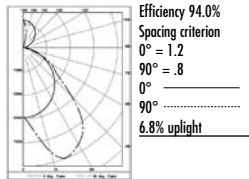
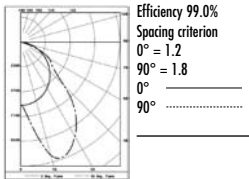
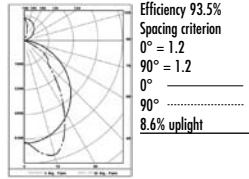
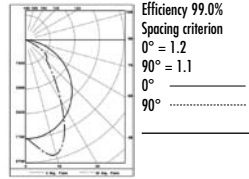
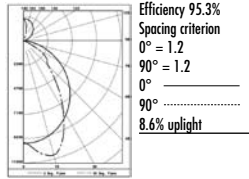
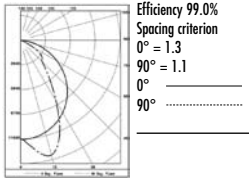
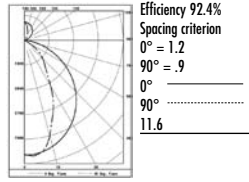
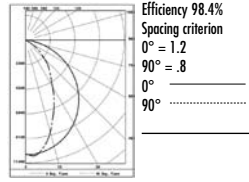
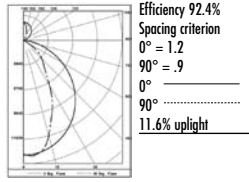
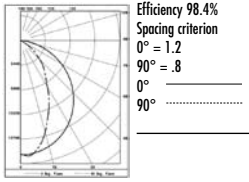
T5HO Programmed Start, Electronic Ballast

Adjust
654HOB12
6 Light T5 HO

Adjust
654AHOB12
6 Light T5 HO with uplight

Adjust
454HOB12
4 Light T5 HO

Adjust
454AHOB12
4 Light T5 HO with uplight



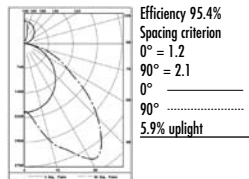
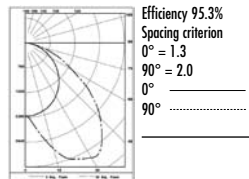
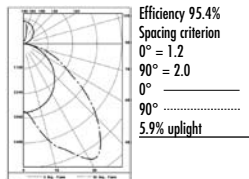
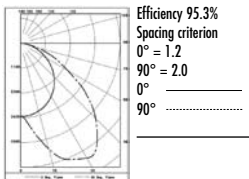
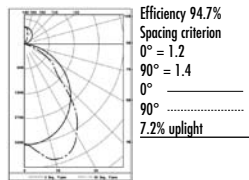
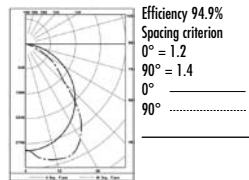
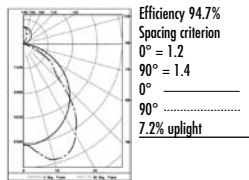
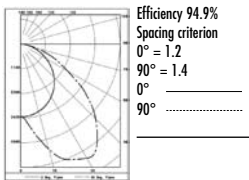
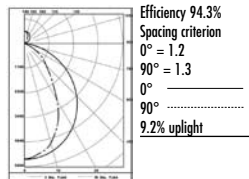
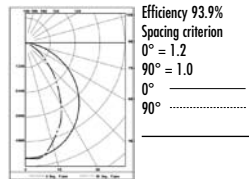
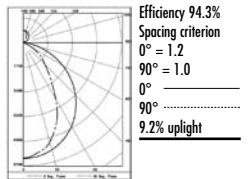
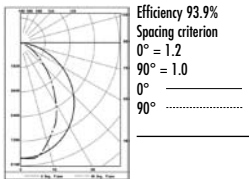
T8, Electronic Ballast

Adjust
632B11
6 Light T8

Adjust
632AB11
6 Light T8 with uplight

Adjust
432B11
4 Light T8

Adjust
432AB11
4 Light T8 with uplight





Simkar's new **Reflect-a-Bay™** is the perfect complement to our innovative Adjust-a-Bay series of product. Reflect-a-Bay™ incorporates the same attention to quality and detail as its predecessor, offering both T5 and T8 in four, six, and eight lamp configurations. Coupled with a wide array of options and accessories, Reflect-a-Bay™ is the perfect choice for manufacturing, warehouse, retail or institutional applications, be they new installations or retro-fits.



More light. Lower costs. Easier to install.

Housing

Die formed heavy gauge steel housing with high-gloss baked white enamel finish over rust inhibiting phosphate coat. Fixture is shipped fully wired. Ample knockouts provided.

Reflector

The Reflect-A-Bay is available with an 85% specular reflector for narrow to medium distribution, or a white reflector for wide distribution, perfect for low bay applications.

Mounting Options

A variety of mounting options are available - please see next page for details.

Electrical

Fully wired for 120-277V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, Class P, sound rated A, programmed-start, electronic T5 HO or T8 ballast. High ballast factor T8 ballasts are also available. 8 lamp unit contains 2 - (4) lamp ballasts. The 6 lamp unit contains 1-(2) lamp and 1-(4) lamp ballast. The 4 lamp unit contains 1- (4) lamp ballast as standard. UL listed.

- Uplighting available on all models
- Save up to 20% in energy when used in place of traditional HID
- Instant-on
- Choose from 7 mounting options, from a chain hanger to a center mount slidebox that's great for HID retrofits
- 4, 6, and 8 lamp versions
- For use with T5 or T8 lamps

Choice of reflectors:

- 85% specular with medium to narrow distribution
- White reflector for wide distribution – great for lowbay applications

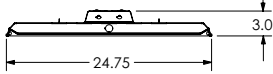


Reflect-A-Bay Series Ordering Information

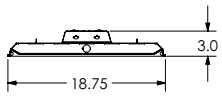
Series	# Lamps	Lamp Type	Aperture	Reflector	Options	Ballast	Switching	Voltage
REF	4 6 8	32 = F32T8 54 = F54T5HO	A = Aperture S = Solid	SR = Specular Aluminum WR = White	ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens) <i>NOTE: ELS2 AND ELS3 FOR T8 OPERATE ONE OR TWO LAMPS. ALL OTHERS OPERATE ONE LAMP ONLY.</i>	B11 = T8 B11HP(x) = HPT8* B12 = T5 HO	<i>For 4 lamp units</i> 4L = (1) 4-lamp ballast (standard) <i>For 6 lamp units</i> 2/2L = (2) 2-lamp ballasts Blank = (1) 4-lamp ballast and (1) 2-lamp ballast (standard) <i>For 8 lamp units</i> 2/3L = (2) 3-lamp ballasts Blank = (2) 4-lamp ballasts (standard)	UNV = 120-277V 347 = 347V 480 = 480V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

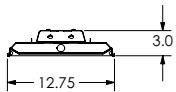
Options	Mounting Accessories (Order Separately)	Accessories (Order Separately)
<p>OS(x) = Occupancy Sensor (specify # of lamps controlled - 2, 4, 6 or 8)</p> <p>OSI(x) = Occupancy Sensor; factory-installed (specify # of lamps controlled - 2, 4, 6 or 8)</p> <p>OSDL(x) = Daylight Sensor (specify # of lamps controlled - 2, 4, 6 or 8)</p> <p>FB = Fast blow fuse</p> <p>SB = Slow blow fuse</p> <p>BP = Bulk Pack</p> <p>6' Cord and Plug</p> <p>CPT(x)</p> <p>1 = 120V</p> <p>2 = 277V</p> <p>3 = 208V</p> <p>4 = 240V</p> <p>5 = 480V</p> <p>CP3 = Cord & Plug - 120V Straight Blade 5-15P</p>	<p>CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"</p> <p>CS24 = S-hook Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"</p> <p>PM(x) = Twin Pendant Mount - 2 white stems - specify length (24", 36", 48", 60", 72")</p> <p>HKSC = Hook & Chain Assembly - Monopoint mount to four point suspension. (Includes hook, chain, and mounting plate)</p> <p>CAB(x)72 = Adjustable Cables - includes 6-foot steel aircraft cables, toolless adjusters and mounting hardware. Specify "2" for 2 cables & Y-hanger or "4" for 4 cables.</p> <p>SBH = Slide Box with hook - Level adjustable for mono-point hook mount.</p> <p>SBP(x) = Slide Box & Single Pendant Mount- Level adjustable for mono-point pendant mount - specify length (24", 36", 48", 60", 72"). Other lengths available.</p>	<p>RWG(x) = Heavy Duty Wire Guard</p> <p>REF(x) = acrylic Lens</p> <p>WREF(x) = acrylic Lens And Heavy Duty Wire Guard Combo</p> <p><i>For above, please specify # of lamps (4, 6, or 8)</i></p>



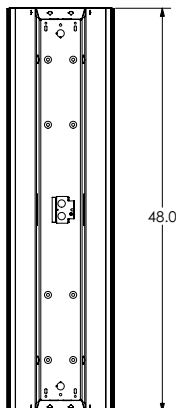
Reflect-A-Bay 8 light



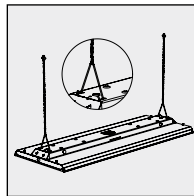
Reflect-A-Bay 6 light



Reflect-A-Bay 4 light

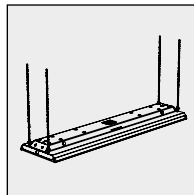


Mountings

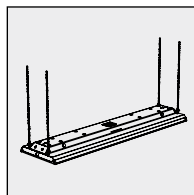


Chain Hanger Assembly

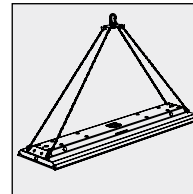
Ordering Code
CA24



"S" Hook (4)
Chain Hanger Assembly
Ordering Code
CS24

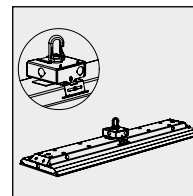


Adjustable Aircraft Cables
Ordering Code
CAB72



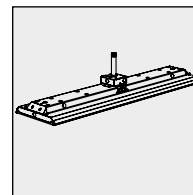
Hook & Chain Assembly

Ordering Code
HKSC



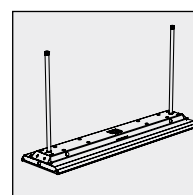
Center Mount Slide Box w/Hook Assembly

Ordering Code
SBH



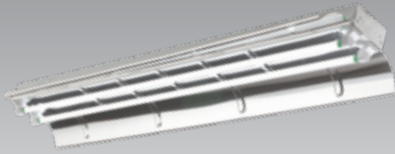
Center Mount Slide Box w/ Pendant Mount

Ordering Code
SBP



Twin Pendant Mount

Ordering Code
PM2



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. 7/8" knockouts for easy installation.

Reflector

Specular reflector manufactured from MIRO 4 aluminum in 4' sections to maximize light output and control beam spread. 95% reflectance.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

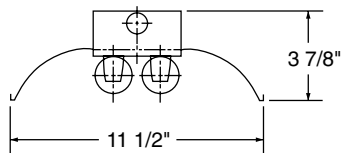
Mounting

Ceiling surface mount (*HO and VHO units must be suspended at least 6" from ceiling for cooler operation and longer ballast life*), spacing available with Snapper Bracket (SN), CA24 chain kit or stem mount individual or continuous row. AC aligner clips available for continuous runs.

The MIRO® Industrial, designed to replace conventional HID lighting in commercial, industrial, educational and retail applications, combines a performance-boosting MIRO 4 aluminum reflector (95% reflectivity) with the proven energy efficiencies of T5HO or T8 linear fluorescent lamps. This provides increased light levels, improved color rendition, and excellent uniformity while using up to 75% less energy. The MIRO Industrial, available in a choice of sizes, lamp configurations, and mounting, is a cost-effective solution for areas traditionally illuminated using HID fixtures.



Dimensions



MIE Premium Specular Industrial Ordering Information

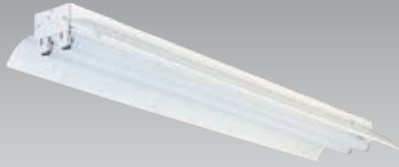
Series	# Lamps	Lamps	Reflector Options	Options
MIE	1	28 = 28W 48" T5	<i>Solid is standard</i>	ELS1 = Emergency Lighting (low lumens)
	2	32 = 32W 48" T8	A = Aperture 12% uplight	ELS2 = Emergency Lighting (medium lumens)
	3	48 = 48" Slimline		ELS3 = Emergency Lighting (high lumens)
		96 = 96" Slimline		
		21 = Tandem, 2 lamps	<i>High Output</i>	
		22 = Tandem, 4 lamps	48 = 48" HO	
		23 = Tandem, 6 lamps	54 = 54W T5HO	
			96 = 96" HO	
			<i>Very High Output</i>	
			48 = 48" VHO	
		96 = 96" VHO		

Ballast	Switching	Voltage
HOBS = High Output Electronic T12	<i>For 2 lamp units</i>	UNV = 120-277V
B11 = Electronic T8	<i>Blank = single ballast</i>	120 = 120V
B11HP(x) = HPT8*	2/1L = (2) 1-lamp ballasts	277 = 277V
HOB11 = High Output Electronic T8	<i>For 3 and 4 lamp units</i>	
B12 = Electronic T5	<i>Blank = dual ballasts</i>	
HO = High Output	3L = (1) 3-lamp ballast	
VHO = Very High Output	4L = (1) 4-lamp ballast	
	<i>For 6 lamp tandem units</i>	
	2/3L = (2) 3-lamp ballasts	
	2L4L = (1) 2-lamp and (1) 4-lamp ballast	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Accessories

- SN** - Snapper Brackets
- CA24** = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
- CS24** = S-hook Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
- HKSC** - Hook & Chain Assembly (24" total drop; 4' fixtures only)
- LG48** - 48" wire guard
- AC** - Aligner Clip / Joiner
- CHJ** - Connector Joiner



IE Industrial Fluorescent models come standard with patented labor-saving pre-wired flip-up socket bars.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. 7/8" knockouts for easy installation.

Reflector

Strong, rigid, die-embossed solid white reflector in 4' sections, standard. Optional "A" apertures for 12% uplight.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

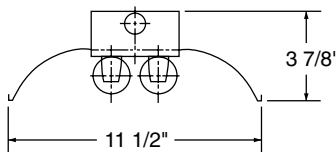
Mounting

Ceiling surface mount (*HO and VHO units must be suspended at least 6" from ceiling for cooler operation and longer ballast life*), spacing available with Snapper Bracket (SN), CA24 in kit or stem mount individual or continuous row. AC aligner clips available for continuous runs.

IE Industrial Ordering Information

Series	# Lamps	Lamps	Reflector Options
IE	1	28 = 28W 48" T5	<i>Solid is standard</i> A = Aperture 12% uplight
	2	32 = 32W 48" T8	
	3	48 = 48" Slimline 96 = 96" Slimline	
	21 = Tandem, 2 lamps	<i>High Output</i>	
	22 = Tandem, 4 lamps	48 = 48" HO	
	23 = Tandem, 6 lamps	54 = 54W T5HO	
		96 = 96" HO (1 or 2 lamp only)	
		<i>Very High Output</i>	
		48 = 48" VHO (1 or 2 lamp only)	
		96 = 96" VHO (1 or 2 lamp only)	

Dimensions

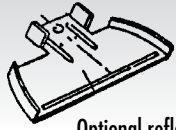


Options	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens)	B5 = Electronic T12	<i>For 2 lamp units</i>	UNV = 120-277V 120 = 120V 277 = 277V
ELS2 = Emergency Lighting (medium lumens)	HOB5 = High Output Electronic T12	<i>Blank = single ballast</i>	
ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8	2/1L = (2) 1-lamp ballasts	
	B11HP(x) = HPT8*	<i>For 3 and 4 lamp units</i>	Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast
	HOB11 = High Output Electronic T8	<i>For 6 lamp tandem units</i>	
	B12 = Electronic T5	2/3L = (2) 3-lamp ballasts	
	HO = High Output	2L4L = (1) 2-lamp and (1) 4-lamp ballast	
	VHO = Very High Output		

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Accessories

- SN - Snapper Brackets
- CA24 - Chain Hanger Assembly (24" total drop)
- CS24 - "S" Hook (4) Chain Hanger Assembly (24" total drop)
- HKSC - Hook & Chain Assembly (24" total drop; 4' fixtures only)
- LG48 - 48" wire guard
- AC - Aligner Clip
- CHJ - Housing Joiner



Optional reflector end, RE

Simkar IF Premium Turret Industrial specification-grade fixtures feature spring-loaded lamp holders to provide positive lamp contact and retention.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. 7/8" knockouts for easy installation. Two-lamp model has 6" on-center lamp spacing.

Reflector

Heavy gauge, rigid, die-embossed reflector with transverse beads, in 4' sections; high-gloss white reflector, or optional "A" apertures for 15% uplight. High reflectance specular aluminum insert (SR) available.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard (except Slimline and HO models) unless otherwise specified. UL listed damp location.

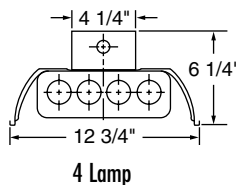
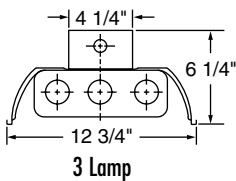
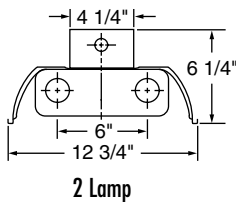
Mounting

Ceiling surface mount (HO and VHO units must be suspended at least 6" from ceiling for cooler operation and longer ballast life), spacing available with Snapper Bracket (SN), CA24 chain kit or stem mount individual or continuous row.

IF Premium Turret Industrial Ordering Information

Series	# Lamps	Lamps	Reflector Options
IF	2	28 = 28W 48" T5	A = Aperture, 15% uplight
	3	32 = 32W 48" T8	
	4	48 = 48" Slimline	
	22 = Tandem, 4 lamps	96 = 96" Slimline	
	23 = Tandem, 6 lamps	<u>High Output</u>	
	24 = Tandem, 8 lamps	48 = 48" HO	
		54 = 54W T5HO	
		96 = 96" HO	
		<u>Very High Output</u>	
		48 = 48" VHO	
	96 = 96" VHO		

Dimensions



Options	Ballast	Switching	Voltage
SR = Specular Reflector	B5 = Electronic T12	<u>For 2 lamp units</u>	UNV = 120-277V 120 = 120V 277 = 277V
ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8	Blank = single ballast	
ELS2 = Emergency Lighting (medium lumens)	B11HP(x) = HPT8*	2/1L = (2) 1-lamp ballasts	
ELS3 = Emergency Lighting (high lumens)	HOB11 = High Output Electronic T8	<u>For 3 and 4 lamp units</u>	
	B12 = Electronic T5	Blank = dual ballasts	
	HO** = High Output	3L = (1) 3-lamp ballast	
	VHO** = Very High Output	4L = (1) 4-lamp ballast	
		<u>For 6 lamp tandem units</u>	
		Blank = single ballast	
		2/3L = (2) 3-lamp ballasts	
		2L/4L = (1) 2-lamp and (1) 4-lamp ballast	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

** Must be spaced at least 6" from ceiling

Options	Accessories
CORD AND PLUG	RE = Reflector end
CPT(x) (twist + lock)	WG = Wire Guards (page 93)
1 = 120V	IF JOINER = For continuous run
2 = 277V	
CP3 = Cord & Plug - 120V Straight Blade 5-15P	



IDP Industrial Decorative fixtures are ideal for spaces where a more refined look is desired. Finished end plates allow for attractive individual mounting.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. 7/8" knockouts provided for easy installation. Wired flip-up socket bars standard.

Reflector

Strong, rigid, die-formed white reflector in 4' sections. Optional perforated reflector for ambient uplight available.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Surface mount or pendant mount with aircraft cable or stem/canopies. Individual mounting only.

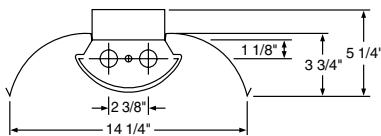
IDP Industrial Decorative Ordering Information

Series	Lamps
IDP	232 = (2) 32W 48" T8

Ballast	Voltage	Accessories
B11 = Electronic T8 B11HP(x) = HPT8*	UNV = 120-277V	PM(x) = Twin Pendant Mount, 2 white stems - specify length in inches (24, 36, 48, 60, 72) CACC(xx) = Cable Kit, includes 2 cables, mounting hardware, white power cord and canopies; specify length in inches (48 or 72) C = Single white canopy

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Dimensions





L A T I T U D E

LOUVERED INDUSTRIAL FLUORESCENT LIGHTING

Introducing Latitude

Rugged elegance best describes the Latitude series of fixtures. We begin with an industrial reflector in either white (LAW) or specular finished (LAM) and add a parabolic aluminum louver in your choice of two finishes: white or semi specular and complete it by offering T5 or T8 lamps in 4' and 8' lengths.

The combination of the rugged industrial reflector and control of the louvers produces a simply elegant fixture with the hardiness of an industrial fixture married with the soft, cut-off performance of high-end, high-tech louvered luminaries. Latitude fixtures are available with a solid reflector or with apertures for an added element of uplighting to get the look you want with the performance you need.

The ability to mount the Latitude series individually or in continuous rows add the versatility and comfort desired in today's fast moving retail, commercial and educational environments.

Housing

Die-Formed heavy gauge steel with high gloss baked white enamel finish over rust-inhibiting phosphate coat. 7/8" knockouts for easy installation.

Reflector

LAW: Strong, rigid, die-embossed solid white painted steel "S" reflector in 4' sections is standard. Optional "A" reflector available with 12% uplight.

LAM: Strong, rigid, die-embossed solid MIRO™ 4 specular aluminum "S" reflector in 4' sections is standard. Optional "A" reflector available with 12% up-light.

Louvers

Louvers provided in 4' sections.

S: Die-formed, parabolic louver made of semi-specular aluminum.

W: Die-formed, parabolic louver made of white painted aluminum.

Electrical

Fully wired for 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location. Optional ballasts and configurations are available upon request.

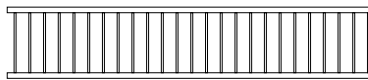
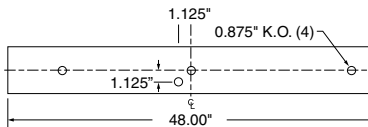
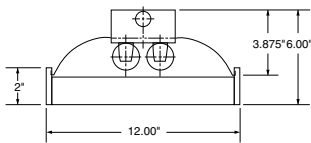
Mounting

Ceiling, surface or suspended mounting options are available for individual units or continuous rows. White end caps included (packaged separately). Contact factory for continuous row applications.

The Latitude series is the perfect choice for offices, commercial or industrial applications where a high end, high tech look and superior performance is required.



Dimensions



1.00" | 2.00"

NOT TO SCALE

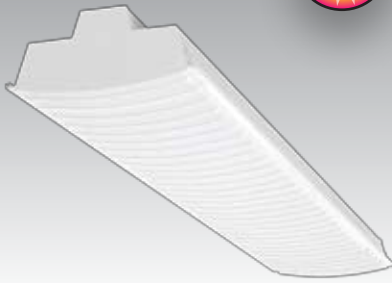
Latitude Series Ordering Information

Series	Size	Uplighting	Louver	# Lamps	Lamp Type
LAW = Latitude White	4 = 4'	A = Aperture	S = Semi Specular parabolic	1	28T5 = F28 T5
LAM = Latitude with MIRO 4 reflector	8 = 8'	S = Solid (none)	W = White painted parabolic	2	32T8 = F32 T8
			Note: 1 per 4' Section	3	54T5H = F54 T5 HO
				2T = 2 lamps, Tandem	
				4T = 4 lamps, Tandem	
				6T = 6 lamps, Tandem	

Emergency Lighting	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens)	E = Electronic	<i>For 2 lamp units</i>	U1 = 120-277
ELS2 = Emergency Lighting (medium lumens)	E(x) = Electronic HPT8*	<i>Blank = single ballast</i>	U3 = 347-480V
ELS3 = Emergency Lighting (high lumens)	PS = Program Start (recommended for use with occupancy sensors; standard on T5)	2/1L = (2) 1-lamp ballasts	347 = 347V
		<i>For 3 and 4 lamp units</i>	480 = 480V
		<i>Blank = dual ballasts</i>	
		3L = (1) 3-lamp ballast	
		4L = (1) 4-lamp ballast	
		<i>For 6 lamp tandem units</i>	
		2/3L = (2) 3-lamp ballasts	
		2L4L = (1) 2-lamp and (1) 4-lamp ballast	

*CEE listed HPT8 (32W only); specify (L)ow, (N)ormal, or (H)igh ballast factor

Options*	Accessories
Plug-in Systems	ECW = End caps (white, set of 2)
Ballast wired to Black:	ECS = End caps (silver, set of 2)
PL1 BK - one circuit, two wires	WO = Without endcaps
PL2 BK - two circuits, three wires	AC = Alignment clips
PL3 BK - three circuits, four wires	FB = Fast blow fuse
Ballast wired to Red:	SB = Slow blow fuse
PL2 RD - two circuits, three wires	BP = Bulk pack
PL3 RD - three circuits, four wires	
Ballast wired to Blue:	CA24 = Chain hanger assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
PL3 BL - three circuits, four wires	CS24 = S-hook chain hanger assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
	PM(x) = Twin pendant mount - 2 white stems - specify length (24" , 36" , 48" , 60" , 72")
Cord and Plug Options	HKSC = Hook & chain assembly - monopoint mount to four point suspension. (Includes hook, chain, and mounting plate)
CPT(x) = "x" = voltage	CAB(x)72 = Adjustable cables - includes 6-foot steel aircraft cables, toolless adjusters and mounting hardware. Specify "2" for 2 cables & Y-hanger or "4" for 4 cables.
12 = 120V L5-15P	CACC(xx) = Cable Kit, includes 2 cables, mounting hardware, white power cord and canopies; specify length in inches (48 or 72)
20 = 208V	
24 = 240V	
27 = 277V L7-15P	
34 = 347V	
48 = 480V	
CP3 = Cord & Plug - 120V Straight Blade 5-15P	



L A T I T U D I E

LOUVERED INDUSTRIAL FLUORESCENT LIGHTING

C O N T O U R

Introducing Latitude Contour

With its distinctive curved blade and rugged construction, Latitude Contour is the perfect fixture for retail, commercial and educational applications. Unlike the standard Latitude with parabolic louvers, Contour has a die formed, post painted, one piece louver with latches to secure the hinged louver to the housing.

Contour is available in 1,2,3, and 4 lamp versions in 4' and 2, 4, 6 and 8 lamp 8' models for 28 and 54 Watt T5 lamps and 32 Watt T8 lamps making Contour not only decorative but practical as well.

Housing:

Die-formed heavy gauge steel with high gloss post-painted baked white enamel finish over rust inhibiting phosphate coat. 7/8" knockouts for easy installation.

Reflectors

Strong, rigid, die-embossed solid white post-painted steel "S" reflector in 4' or 8' sections is standard. Optional "A" reflector available with 12% up-light.

Louver

Die-formed, curved blade louver made of white painted steel with die-formed latches for easy opening and re-lamping. Louvers provided in 4' sections.

Electrical:

Fully wired for 120-277V, 50-60Hz operation with an thermally protected, automatic resetting class "P" electronic ballast. Other ballasts and configurations are available upon request.

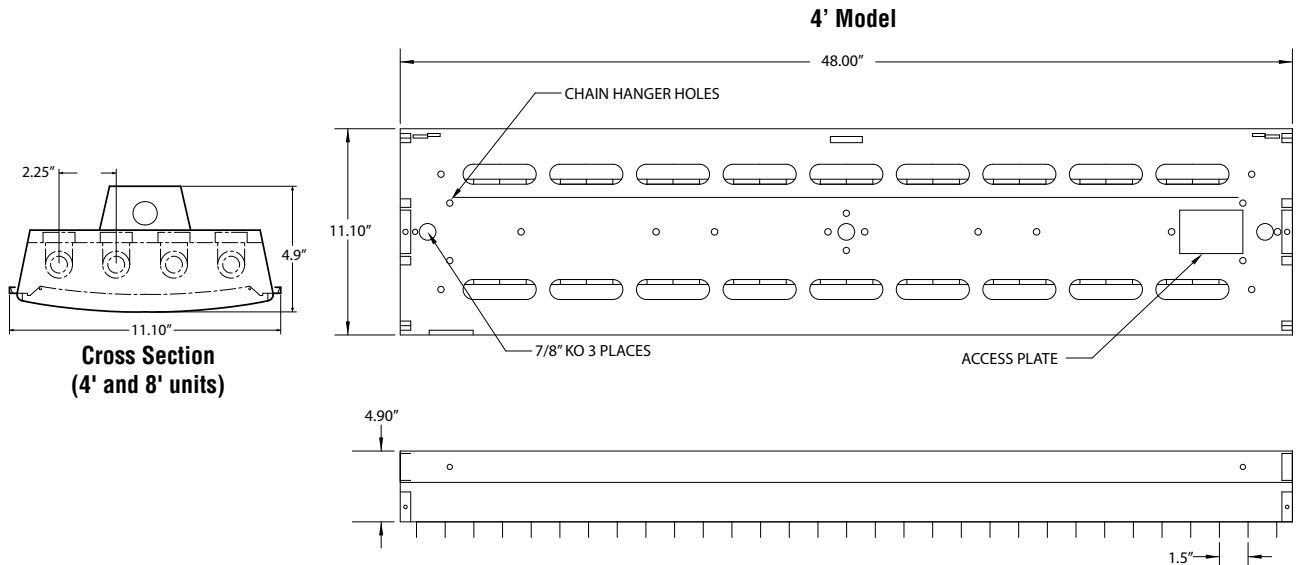
Mounting

Ceiling surface or suspended mounting options are available for individual units or continuous rows.

The Latitude series is the perfect choice for offices, commercial or industrial applications where a high end, high tech look and superior performance is required.



Dimensions



Latitude Contour Ordering Information

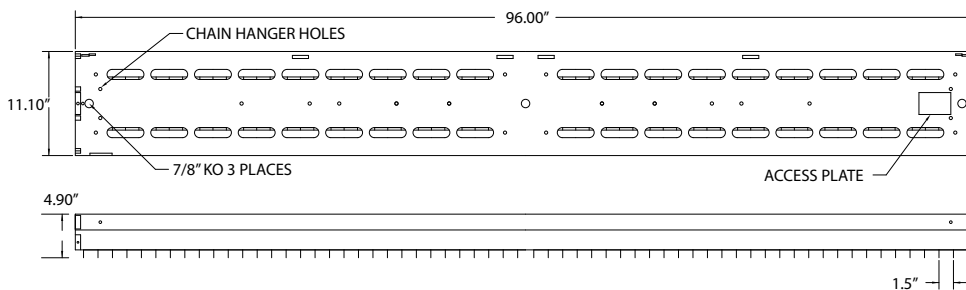
Series	Size	Uplighting	# Lamps	Lamp Type
LAC	4 = 4'	A = Aperture	1 = 1 lamp	28T5 = F28 T5
	8 = 8'	S = Solid (none)	2 = 2 lamps	32T8 = F32 T8
			3 = 3 lamps	54T5H = F54 T5 HO
			4 = 4 lamps	
			2T = 2 lamps, Tandem	
			4T = 4 lamps, Tandem	
			6T = 6 lamps, Tandem	
			8T = 8 lamps, Tandem	

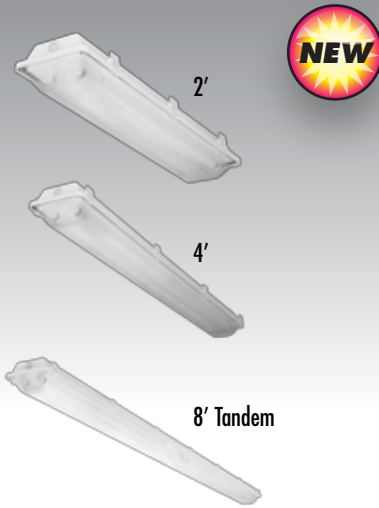
Emergency Lighting	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens)	E = Electronic	<i>For 2 lamp units</i>	U1 = 120-277
ELS2 = Emergency Lighting (medium lumens)	E(x) = Electronic HPT8*	Blank = single ballast	U3 = 347-480V
ELS3 = Emergency Lighting (high lumens)	PS = Program Start (recommended for use with occupancy sensors; standard on T5)	2/1L = (2) 1-lamp ballasts	347 = 347V
		<i>For 3 and 4 lamp units</i>	480 = 480V
		Blank = dual ballasts	
		3L = (1) 3-lamp ballast	
		4L = (1) 4-lamp ballast	
		<i>For 6 lamp tandem units</i>	
		2/3L = (2) 3-lamp ballasts	
		2L4L = (1) 2-lamp and (1) 4-lamp ballast	

*CEE listed HPT8 (32W only); specify (L)ow, (N)ormal, or (H)igh ballast factor

Options*	Accessories
Plug-in Systems	FB = Fast blow fuse
Ballast wired to Black:	SB = Slow blow fuse
PL1 BK - one circuit, two wires	BP = Bulk pack
PL2 BK - two circuits, three wires	
PL3 BK - three circuits, four wires	CA24 = Chain hanger assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
Ballast wired to Red:	CS24 = S-hook chain hanger assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
PL2 RD - two circuits, three wires	PM(x) = Twin pendant mount - 2 white stems - specify length (24", 36", 48", 60", 72")
PL3 RD - three circuits, four wires	HKSC = Hook & chain assembly - monopoint mount to four point suspension.
Ballast wired to Blue:	(Includes hook, chain, and mounting plate)
PL3 BL - three circuits, four wires	CAB(x)72 = Adjustable cables - includes 6-foot steel aircraft cables, toolless adjusters and mounting hardware. Specify "2" for 2 cables & Y-hanger or "4" for 4 cables.
Cord and Plug Options	CACC(xx) = Cable Kit, includes 2 cables, mounting hardware, white power cord and canopies; specify length in inches (48 or 72)
CPT(x) = Twist and lock, "x" = voltage	ENTS = Tamperproof screws
12 = 120V L5-15P	ENTSD = Tamperproof screwdriver
20 = 208V	
24 = 240V	
27 = 277V L7-15P	
34 = 347V	
48 = 480V	
CP3 = Cord & Plug - 120V Straight Blade 5-15P	

Tandem Model





Features & Benefits

- Top rated UL fire resistant housing: UL 94, 5VA reinforced thermal set polyester housing
- IP65 and IP67 ratings
- UL 746C rated f1 housing material meets outdoor UV and Water Immersion requirements
- Optional, simple, non-intrusive, external mounting hardware system available
- Securely attached, over-center latching system that are tamper proof ready
- Rugged, impact resistant 100% certified high impact acrylic or polycarbonate lenses
- Superior sealing system produces a dust free, wash down fixture with an IP65 rating for 2' units and IP67 for temporary immersion for the 4' and 8' units.
- NSF high pressure wash down approved for splash zone areas.
- Available with fluorescent T5, T5HO, T8, HPT8, or T8HO
- Available in 2', 4' and 8' lengths with 1, 2, or 3 lamps systems plus tandem configurations for the 8' units



EN2

Ideal for demanding environments where reliability and performance are paramount.

Simkar is proud to announce a family of demanding environment T5/T8 luminaires that will stand up to the forces of wind, water, temperature extremes, dust, salt, and abuse.

The EN2 series is an indoor/outdoor, corrosion proof, enclosed and gasketed fixture that does it all.

Simkar's weatherproof EN2 Series luminaires are a low profile design and comes in 2', 4', and 8' lengths. The 2' and 4' units come in 4" and 6.8" widths and the 8" unit is 6.8" wide.

You have choices of 1, 2, or 3 lamp versions to meet your lighting needs.

The housings are made of custom reinforced, thermal-set polyester that is corrosion resistant and will withstand extreme abuse and neglect.

The horizontally ribbed diffuser lenses were engineered for superior strength, ease of cleaning, and optical uniformity. These tough lenses are available in injection molded, clear, UV stabilized

polycarbonate (2' and 4' units) or 100% certified High Impact acrylic versions (4' and 8' units).

The sealing flanges of the lenses were designed to work in conjunction with our custom formulated foam-in-place, non-reticulated polyurethane gasket. This gasket is a seamless gasket that chemically attaches to the housing and is robotically applied to ensure consistency, accuracy, and reliability.

As a result of this design system, we have been able to achieve IP65 ratings for the 2' units (dust free with hose down) and IP67 ratings for the 4' and 8' units (dust free with temporary submersion under water for 30 minutes). The 2', 4', and 8' units are also certified for NSF high pressure wash down splash zone areas.

Our innovative latching and optional mounting hardware make installation and maintenance a breeze.

Certifications:

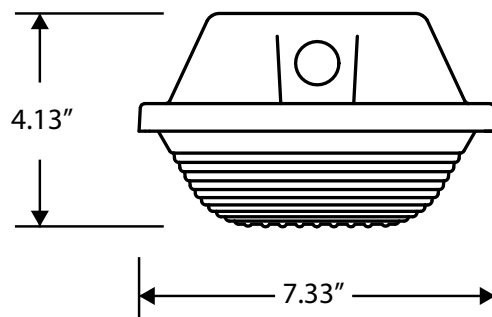
UL, cUL wet location, 25° C ambient

UL, cUL recognized components

NSF Certified for high pressure wash down splash zone areas

IP65 certified; 2' units: Dust-free, low pressure wash down

IP67 certified; 4' and 8' units: Dust-free, temporary immersion for 30 minutes



Housing

Housing to be 1-piece, custom reinforced thermal-set polyester that is corrosion proof and will withstand extreme abuse and neglect. Housing material to be UL 5VA and f1 rated. Gasket to be a seamless, custom formulated foam-in-place, urethane gasket, chemically attached to the housing and robotically applied to ensure consistency, accuracy, and reliability. All models are NSF Splash Zone rated for high pressure wash down. 2' unit to be IP65 rated for dust-free and wash down; 4' and 8' units to be IP67 rated for dust-free and water-free ingress protection (temporary submersion for 30 minutes).

Electrical

T8 and HPT8 technology: Ballast to be electronic, Instant Start, fully wired with quick-disconnect device: Universal voltage 120 – 277VAC, 50/60Hz, Starting temperature 0°F (-18°C),

< 15% THD, High-Power Factor, Thermally protected, Automatic resetting, Class P, Sound rating A.

T5 and T5HO technology: Ballast to be electronic Program Start, fully wired with quick-disconnect device: Universal voltage 120 – 277VAC, 50/60Hz, Starting temperature 0°F (-18°C), < 15% and < 20% THD, High-Power Factor, Thermally protected, Automatic resetting, Class P, Sound rating A.

Optics

Reflector to be die-formed, heavy gauge steel with high-glass, baked white polyester finish over rust inhibiting phosphate coat or Miro 4 specular with 95% reflectivity. 2' Lens to be clear, ribbed, UV stabilized polycarbonate; 4' Lenses to be injection molded clear, ribbed, UV stabilized polycarbonate or 100% High Impact acrylic; 8' lens to be injection molded clear, ribbed, 100% High Impact acrylic engineered for superior strength, ease of cleaning, and optical uniformity.

Mounting/Latching

Mounting to be surface, ceiling, or wall capable. Optional stainless steel brackets or swivel brackets available without drilling into the housing. Safety strap included. Lens latches to be tool-free UV stabilized polycarbonate, positive lock over-center design, tamper-proof ready. Optional stainless steel latches available.

Certifications

Ballast: UL, CSA. Luminaire: UL Wet Location, IP65 (2' unit), IP67 (4' and 8' units), UL-cUL Recognized components; NSF Certified for splash zone areas.

EN2 Ordering Information

Series	Size	Lens	Reflector	# Lamps	Lamp Type
EN2	2 = 2' (IP65)	<i>2' Size</i>	WR = White	1	T5
	4 = 4' (IP67)	RP = Ribbed polycarbonate vacuum formed lens	M4 = Miro 4	2	14T5 = 14 watt T5, 2' unit
	8 = 8' (IP67)			3	24T5H = 24 watt T5HO, 2' unit
		<i>4' Size</i>		2T = 2 lamps tandem	28T5 = 28 watt T5, 4' unit or 8' Tandem
		RP = Ribbed polycarbonate injection molded lens		4T = 4 lamps tandem	54T5H = 54 watt T5HO, 4' unit or 8' Tandem (not available with 3 lamps or 6T Tandem)
		RA = Ribbed acrylic injection molded lens: 100% High Impact acrylic		6T = 6 lamps tandem	
		<i>8' Size</i>			T8
		RA = Ribbed acrylic injection molded lens: 100% High Impact acrylic			17T8 = 17 watt T8, 2' unit
					32T8 = 32 watt T8, 4' unit or 8' Tandem
					32HP8 = 32 watt HPT8, 4' unit or 8' Tandem
					86T8H = 86 watt T8HO, F96, 8' unit (not available with 3 lamps)

Ballast	Switching	Voltage	Options	Accessories
E = Electronic E(x)* = Electronic HPT8* D = Dimming (Specify Ballast)	<i>For 2 lamp units</i> Blank = single ballast 2/1L = (2) 1-lamp ballasts <i>For 4 lamp units</i> Blank = (2) 2-lamp ballasts 4L = (1) 4-lamp ballast <i>For 6 lamp tandem units</i> 2/3L = (2) 3-lamp ballasts 2L/4L = (1) 2-lamp and (1) 4-lamp ballast	U1 = 120V – 277V U3 = 347V – 480V 347 = 347V 480 = 480V	BP = Bulk Pack ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens) EN2 Requires damp location emergency ballast ENTS = Tamperproof screws ENTSD = Tamperproof screwdriver SSL = Stainless Steel Latch OS(x) = Individual Fixture PIR Occupancy Sensor; (specify number of lamps controlled: 1, 2, 3, 4, 5, or 6)** CP3 = Cord & Plug - 120V Straight Blade with 6' Cord** CPT(xx) = Cord & Plug: Twist + Lock with 6' Cord; (specify voltage: 12 = 120, 20 = 208, 24 = 240, 27 = 277, 34 = 347, or 48 = 480)** <i>For cords without plugs, please contact factory.</i> FB = Lay-in Fast-Blow Fusing SB = Lay-in Slow-Blow Fusing Lamps installed (Specify) **Damp Location	EN2TS = Tamperproof screws EN2TSD = Tamperproof screwdriver EN2MB = 2 Stainless steel Mounting Brackets EN2SMB = 2 Swivel Mounting Brackets

*Specify Ballast Factor: L = Low; N = Normal or H = High



EN3

Finally, an Indoor/Outdoor, corrosion proof, enclosed and gasketed fixture that does it all.

Simkar is proud to announce a family of demanding environment T5/T8 luminaires that will stand up to the nasty forces of wind, water, temperature extremes, dust, salt, and abuse. Simkar's weatherproof EN3 Series luminaires are a low profile design and are 14-1/2" wide and 52" long and are perfect for areas that need high light levels or high mounting heights. You have choices of 4 or 6 lamp versions to meet your lighting needs. The housings are made of custom reinforced, thermal-set polyester that is corrosion resistant and will withstand extreme abuse and neglect. A tough injection molded, clear, 100% certified High Impact acrylic gives you a tough, non-yellowing lens that will exceed your expectations. An optional

injection molded, UV stabilized polycarbonate lens is also available. The sealing flanges of the injected molded lenses were designed to work in conjunction with our custom formulated foam-in-place, closed cell polyurethane gasket. This gasket is a seamless gasket that chemically attaches to the housing and is robotically applied to ensure consistency, accuracy, and reliability. As a result of this design system, we have been able to achieve a number of impressive certifications: IP67 rating for a dust free luminaire capable of temporary submersion under water for 30 minutes, NEMA 4X ideal for marine environments, and NSF high pressure wash down for splash zone food processing areas.

Features & Benefits

Top rated UL fire resistant housing: UL 94, 5VA reinforced thermal set polyester housing

UL 746C rated f1 housing material meets outdoor UV and Water Immersion requirements

Two external mounting system available

Securely attached, over-center, stainless steel latching system that is tamper proof ready

Tool-free, hinged gear tray for ease of maintenance and convenience

Rugged, impact resistant lenses: non-yellowing, 100% certified High Impact acrylic

Superior sealing system produces a dust proof, wash down fixture with an IP67 rating

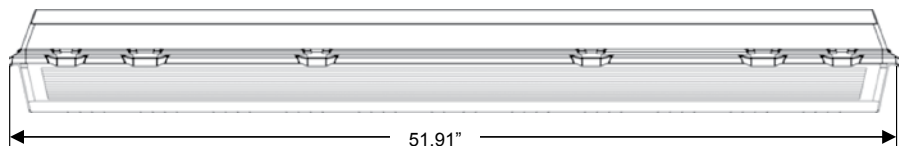
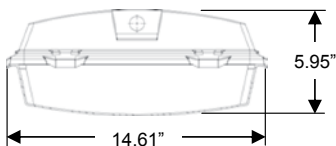
NSF high pressure wash down approved for Splash and Non-Food Zone Processing Areas

Available with Fluorescent T5, T5HO, T8, or HPT8 technologies

Available in a 4' housing with 4 or 6 lamp configurations

Certifications:

- UL, cUL wet location
- UL, CSA recognized components
- NSF Certified for high pressure wash down splash zone processing areas
- NEMA 4X
- IP66/67 certified: Dust-free, high pressure washdown/temporary immersion for 30 minutes



Housing

Custom blend, UL 5VA and f1 rated fiberglass reinforced thermal-set polyester

SMC manufacturing process for strength, reliability, fit and finish.

Optics

High reflectance, White reflector or minimum 92% high reflectance Specular aluminum reflectors

Injection molded, 100% certified High Impact acrylic Lens; Optional injection molded, UV stabilized polycarbonate lens available.

Lamp/Ballast/Sockets Technologies

Lamps: T5, T5HO, T8, or HPT8 (not included unless ordered)

Ballasts: Electronic Instant Start T5, T8, and HPT8; Program Start T5HO

Universal voltages: 120-277 volt 50/60Hz or 347-480V 50/60Hz; Straight voltages: 347V 60Hz; 480V 60Hz; contact factory for other available voltages.

All ballasts are electronic, thermally protected with auto-resetting, Class P, sound rated A, high power factor, <15% harmonic distortion.

T5 and T5HO technology: Ballast to be electronic Program Start, Universal voltage 120 – 277VAC, 50/60Hz, Starting temperature 0°F (-18°C), < 15% and < 20% THD, High-Power Factor, Thermally protected, Automatic resetting, Class P, Sound rating A.

Rotational locking sockets ensure lamps are securely held in place.

Mounting and Latching

Two external mounting systems available: V-hook mounting or cables.

Stainless steel, positive-lock, over-center latches that are tamperproof ready.

EN3 Ordering Information

Series	Reflector	# Lamps	Lamps	Ballast
EN3	WR = White Reflector	4 = 4 lamps	T5	E = Electronic
	SR = Specular Reflector	6 = 6 lamps	28T5 = 28W T5 54T5H = 54W T5HO	E(x) = Electronic HPT8* D = Dimming (Specify Ballast)
			T8	
			32T8 = 32W T8 32HP8 = 32W HPT8	

*Specify Ballast Factor: L = Low; N = Normal or H = High

Switching	Voltage	Mounting	Options
FOR 6 LAMP UNITS Blank = dual ballasts (4L/2L)	U1 = 120V – 277V U3 = 347V – 480V	VHM = V-Hook Mounting Kit CMB = Cable Mounting Kit (cable not included)	BP = Bulk Pack Palletized PCL = polycarbonate Lens
FOR 4 LAMP UNITS Blank = dual ballasts 4L = (1) 4-lamp ballast	347 = 347V 480 = 480V		EN3TS = Tamperproof screws EN3TSD = Tamperproof screwdriver
			ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens) EN3 Requires damp location emergency ballast
			CP3 = Cord & Plug - 120V Straight Blade with 6' Cord* CPT(x,x) = Cord & Plug; with 6' Cord; (specify voltage: 12 = 120, 20 = 208, 24 = 240, 27 = 277, 34 = 347, 48 = 480)* For cords without plugs, please contact factory.
			FB = Lay-in Fast-Blow Fusing SB = Lay-in Slow-Blow Fusing OS(x) = PIR Occupancy Sensor; (specify number of lamps controlled: 1, 2, 3, 4, 5, or 6)* Lamps installed (Specify)

*Damp Location

Accessories

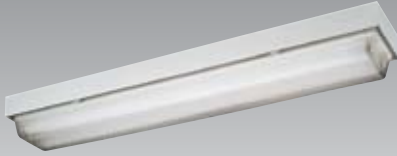
CAB472 = (for use with CMB) Adjustable Cables: includes (4) 72" steel aircraft cables with tool-free adjusters

WLH = 1 Wet Location wire Hub

ENTS = Tamperproof screws

ENTSD = Tamperproof screwdriver

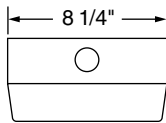
EN3LTK = Lens tether kit



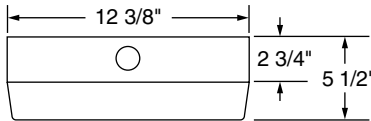
OV410 Enclosed gasketed fixture is equipped with a pressure-lock cam latch to tightly seal out vapor, moisture and dust. Available in 4' and 8' lengths as well as T8, T12, and high output.



Dimensions



Two Light



Four Light

Housing

Heavy-gauge steel with welded corners and compressible gasketing. KOs provided top and ends.

Shielding

Standard with clear acrylic prismatic lens.

Options

Popular options include wet location label (suffix WL) for ceiling mount only (includes RTV silicone seal).

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified (except HO models). U.L. listed.

Mounting

Surface or stem, individual or continuous rows.

OV410 Gasketed Striplite Ordering Information

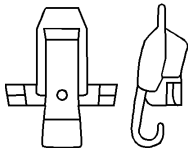
Series	# Lamps	Lamp Type	ELS Options
OV410	2	32 = 32W 48" T8	ELS1 = Emergency Lighting (low lumens)
	4	48 = 48" T12 HO	ELS2 = Emergency Lighting (medium lumens)
	22 = Tandem, 4 lamps	96 = 96" T8/T12 Slimline / HO	ELS3 = Emergency Lighting (high lumens)

Ballast	Switching	Voltage	Options
B5 = Electronic T12	FOR 2 LAMP UNITS	UNV = 120-277V	WL = Wet Location (Ceiling mount only)
B11 = Electronic T8	Blank = single 2-lamp ballast (standard)	120 = 120V	FB* = Lay-in Fast-Blow Fusing
B11HP(x) = HPT8*	2/1L = (2) one-lamp ballasts	277 = 277V	SB* = Lay-in Slow-Blow Fusing
HO = High Output	FOR 4 LAMP UNITS		
	Blank = (2) 2-lamp ballasts		
	4L = (1) 4-lamp ballast		

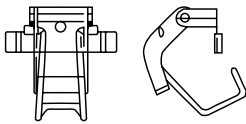
*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



OV450 is UL listed for wet locations

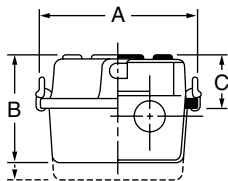


High strength thermoplastic latches, standard



Stainless steel latches, specify SSTP

Dimensions



Dimensions	A	B	C	Length
32W and 48" models	7 5/8"	4 1/2"	3"	49 13/16"
96" and tandem models	7 5/8"	5 5/8"	3"	97 13/16"

Housing

Rigid, one-piece (ASTM D635-74) reinforced polyester fiberglass, accepted by NSF and USDA. Robotically applied gasketing – 98% compression recovery, no seams, no porosity – forms moisture seal to diffuser. Celcon latches standard; stainless latches optional (OV450). OV451 supplied with high streng

Shielding

Rigid, one-piece, self-extinguishing (ASTM D635-74) reinforced polyester fiberglass, accepted by NSF and USDA. Robotically applied gasketing – 98% compression recovery, no seams, no porosity – forms moisture seal to D.R. acrylic diffuser or optional polycarbonate. Thermoplastic latches standard; stainless latches optional.

Options

Polycarbonate lens, stainless or tamperproof (SSTP) latches and wet location fittings.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified (except T8 HO models). UL listed wet location.

Mounting

Surface, stem, chain kit; individual or continuous rows. CA24 Chain Hanger assembly with support plate. Single canopy and stem set, hardware and 24" stem. WLF Fitting for use with water tight conduit, field installed. One each. See page 92.

OV450 Wet Location Enclosed Striplite Ordering Information

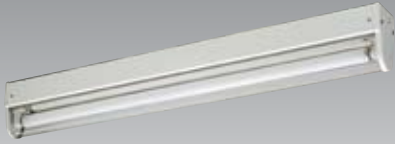
Series	# Lamps	Lamp Type
OV450 = 15% DR Crepe/Stipple Lens	1	32 = 32W 48" T8
OV451 = polycarbonate lens	2	48 = 48" T12 HO
	21 = Tandem, two lamps	96 = 96" T8/T12 Slimline / HO
	22 = Tandem, four lamps	54T5H = 54 watt T5HO

Options	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens)	B5 = Electronic T12	For 2 lamp units	UNV = 120-277V
ELS2 = Emergency Lighting (medium lumens)	HOB5 = High Output Electronic T12	Blank = single 2-lamp ballast (standard)	120 = 120V
ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8	2/1L = (2) one-lamp ballasts	277 = 270V
	B11HP(x) = HPT8*	For 4 lamp units	
	HOB11 = High Output Electronic T8	Blank = (2) 2-lamp ballasts	
		4L = (1) 4-lamp ballast	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

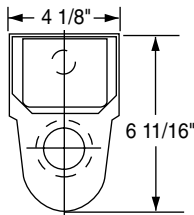
Options	Accessories
HAD = High-abuse 50% DR lens (OV450 only)	CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
SSTP = Stainless steel tamperproof latch	CASP = Support plate for chain hanger assembly
	PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72)
	C = Single white canopy (for use with pendant mount)
	TSD(x) = Tamper-proof screw driver (Specify quantity)

Celcon® is a registered trademark of Ticona Engineering Polymers



OG's narrow width and 4' to 16' length options make it ideal for parking garages and other outdoor applications where space is limited.

Dimensions



Housing

Die-formed, totally enclosed, fully gasketed, corrosion resistant aluminum housing. KOs provided.

Shielding

Extruded clear wraparound acrylic snap-in diffuser that will not discolor.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified (except HO models). U.L. damp location listed.

Mounting

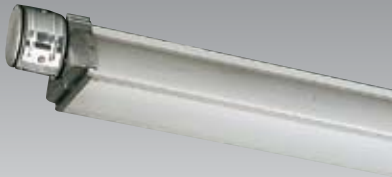
Surface mount or stem hang, individual or continuous rows with OG-CB adapter.

OG Aluminum Enclosed Light Ordering Information

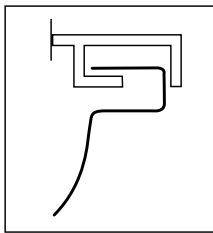
Series	# Lamps	Lamps	Ballast	Voltage
OG	1 = Single	48 = 48"	HO = High Output	UNV = 120-277V
	21 = Tandem, 2 Lamps	72 = 72"	HOB5 = High Output Electronic T12	120 = 120V
		96 = 96"	HOB11 = High Output Electronic T8	277 = 277V

Accessories

- OG-CB = Continuous row adapter
- PM(x) - Twin Pendant Mount - 2 white stems - specify length (24", 36", 48", 60", 72")



OS Directional Sign Light offers 360° swivel for precision aiming of light. Lip on flat lens allows unit to be aimed upward while still maintaining the UL listing for wet locations.



Lip on flat lens allows unit to be aimed upward.

Housing

Totally enclosed, fully assembled, corrosion resistant aluminum housings. Two splice boxes and endcaps included. Die-cast aluminum splice box tapped 3/4" -14 N.P. All hardware is corrosion resistant stainless steel. Gasketed sockets; use with remote ballast. KOs provided top and ends.

Shielding

Extruded clear wraparound acrylic snap-in diffuser that will not discolor.

Electrical

Fully wired for 120V, 60Hz operation. All units are supplied with remote, low temperature, weatherproof 120V ballast, unless otherwise specified.

Mounting

Run conduit (not supplied) from remote ballast to individual fixtures, continuous rows or end-of-row fixtures.

NOTE: Add 2 1/2" to total overall length for continuous runs. See dimensional drawings.

OS Directional Sign Light Ordering Information

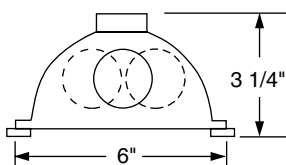
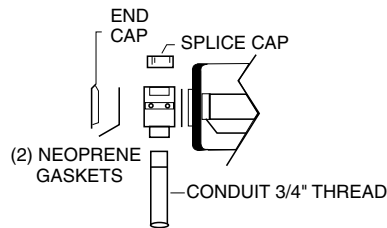
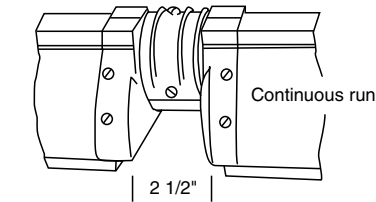
Series	# Lamps	Lamp Type	Ballast	Voltage
OS	1	48 = 48" T12, 50.5" conduit centers	HO = High Output	120 = 120V
	2	72 = 72" T12, 74.5" conduit centers	VHO = Very High Output	277* = 277V
	21 = Tandem, Two Lamps	96 = 96" T12, 98.5" conduit centers		L/B = Less Ballast

*Non-weatherproof ballast only.

Accessories

OS SPLICE BOX = Splice Box for continuous row mounting

Dimensions





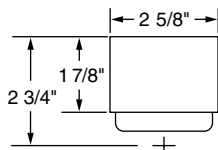
The CH Series is ideal for general purpose lighting in retail stores and commercial environments. Available in 2', 3', and 4' individual lengths as well as continuous row mounting.



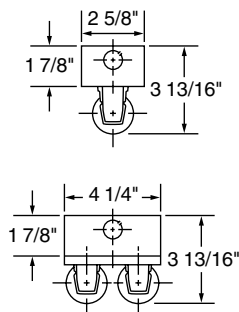
CHT



Flip-up sockets Patent #4,422,132



Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat with removable wireway access panel. Ample knockouts provided on side, back and ends. Shipped fully wired and assembled, including socket saddle. Simply flip up socket bar and attach wireway cover with turn fastener provided. Machine installed shunts eliminate loose socket bar connections on electronic strips.

Options

Modular wiring, white or silver asymmetric or symmetric reflectors, and emergency lighting battery packs are available options.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Combination end plate/joiner connect units for continuous row or wire through, see CHJ on page 93. Optional plug-in wiring system described in detail on page 92.

CH Original Patented Striplite Ordering Information

Series	# Lamps	Lamps	
CH	1	14 = 14W 15" T12	28 = 28W T5
	2	14 = 14W 24" T5	30 = 30W 36" T12
	4	15 = 15W 18" T8/T12	32 = 32W 48" T8
	21 = Tandem, two lamps	17 = 17W 24" T8	39 = 39W 36" T5HO
	22 = Tandem, four lamps	20 = 20W 24" T12	40 = 34/40W 48" T12
		21 = 21W 36" T5	40TT = 40W 22" TT
		24 = 24W 24" T5HO	54 = 54W T5HO
		25 = 25W 36" T8	

ELS Options	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens)	B5 = Electronic T12	For 4 lamp units	UNV = 120-277V
ELS2 = Emergency Lighting (medium lumens)	B11 = Electronic T8	Blank = dual ballasts	120 = 120V
ELS3 = Emergency Lighting (high lumens)	B11HP(x) = HPT8*	4L = (1) 4-lamp ballast	277 = 277V
	B12 = Electronic T5	For 2 lamp units	
	B14 = Electronic TT	Blank = single ballast	
	B22 = LPF Electronic T8/T12	2/1L = (2) 1-lamp ballasts	
	D = Dimming (specify ballast)		

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options	Accessories
---------	-------------

Cord and Plug

- CPT(x) (Twist + Lock)
 - 1 = 120V
 - 2 = 277V
- CP3 = Cord & Plug - 120V Straight Blade 5-15P

Plug-in Connectors

- Ballast wired to Black:
 - PL1 - one circuit, two wires
 - PL2 BK - two circuits, three wires
- Ballast wired to Red:
 - PL2 RD - two circuits, three wires

Reflectors (Not compatible with wire guards)

- Symmetric
 - SR(x)(y)20 = 24"
 - SR(x)(y)30 = 36" (Order 2 for tandem 72" units)
 - SR(x)(y)40 = 48" (Order 2 for tandem 96" units)
- Asymmetric
 - AR(x)20 = 24"
 - AR(x)30 = 36" (Order 2 for tandem 72" units)
 - AR(x)40 = 48" (Order 2 for tandem 96" units)

(x) Enter (W) for white or (S) for specular aluminum
(y) Enter # lamps (1 or 2)

- FB = Fast blow fuse
- SB = Slow blow fuse
- BP = Bulk Pack

- AC = Alignment Clips
- CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
- CS24 = "S" Hook (4) Chain Hanger Assembly (24" total drop)
- PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72)
- C = Single white canopy (for use with pendant mount)
- CHJ = Housing Joiner
- SN = Snapper Brackets
- WG(x)20 = 24" (Specify # Lamps) (1 or 2)
- WG(x)30 = 36" (Specify # Lamps) (1 or 2)
- WG(x)40 = 48" (Specify # Lamps) (1 or 2)



Housing

High-gloss, baked white enamel finish on steel housing with removable wireway access panel. Fixture is shipped fully wired and assembled. CHX models have patented (#4,422,132) flip-up socket bar and turn fastener for attaching wireway cover.

Options

Options include modular wiring, plug-in systems and wire guards.

Electrical

Fully wired for 120V, 60Hz operation with thermally protected, automatic resetting, Class P, high-power-factor ballast, unless otherwise specified. UL listed, damp location.

Mounting

Combination end plate/joiner connects units for continuous row or wire through. Heavy duty joiner plate available. Surface or pendant mount, high output model must be suspended at least 6" from ceiling for cooler operation.

Slimline and High Output Channels are ideal for maximum illumination in retail stores and commercial environments. Available in 4', 6', and 8' individual lengths as well as continuous row mounting.

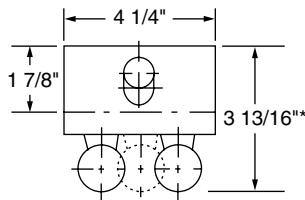
CHX Slimline And High Output Channel Ordering Information

Series	# Lamps	Lamp Length (nominal)	ELS Options
CHX	1	48 = 48"	ELS1 = Emergency Lighting (low lumens)
	2	72 = 72"	ELS2 = Emergency Lighting (medium lumens)
	3	96 = 96"	ELS3 = Emergency Lighting (high lumens)
	4		
	21 = Tandem, Two Lamps		

Ballast	Voltage
B5 = Electronic T12	UNV = 120-277V
HOB5 = High Output Electronic T12	120 = 120V
B11 = Electronic T8	277 = 277V
HOB11 = High Output Electronic T8	
HO* = High Output T12	
VHO* = Very High Output T12	

*Must be mounted at least 6" from surface

Dimensions

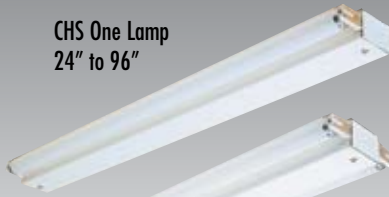


*HO and VHO are 4 5/8" deep

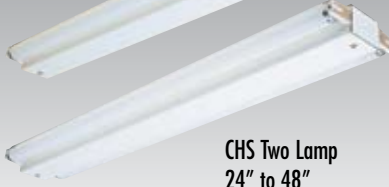
Options	Accessories
<p>Cord and Plug</p> <p>CPT(x)</p> <p>1 = 120V</p> <p>2 = 277V</p> <p>CP3 = Cord & Plug - 120V Straight Blade 5-15P</p> <p>Plug-in Connectors</p> <p><i>Ballast wired to Black:</i></p> <p>PL1 - one circuit, two wires</p> <p>PL2 BK - two circuits, three wires</p> <p><i>Ballast wired to Red:</i></p> <p>PL2 RD - two circuits, three wires</p> <p>FB = Fast blow fuse</p> <p>SB = Slow blow fuse</p>	<p>Reflectors*</p> <p>(x) Enter (W) for white or (S) for specular aluminum</p> <p><i>Symmetric</i></p> <p>SR(x)30 = 36" (Order 2 for 72" units)</p> <p>SR(x)40 = 48" (Order 2 for 96" units)</p> <p><i>Asymmetric</i></p> <p>AR(x)30 = 36" (Order 2 for 72" units)</p> <p>AR(x)40 = 48" (Order 2 for 96" units)</p> <p>AC = Alignment Clips</p> <p>CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"</p> <p>CS24 = "S" Hook (4) Chain Hanger Assembly (24" total drop)</p> <p>PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72)</p> <p>C = Single white canopy (for use with pendant mount)</p> <p>CHJ = Housing Joiner</p> <p>SN = Snapper Brackets</p> <p>WG230 = 36" (Order 2 for 72" units)</p> <p>WG240 = 48" (Order 2 for 96" units)</p>

*Not compatible with wire guards

CHS One Lamp
24" to 96"



CHS Two Lamp
24" to 48"



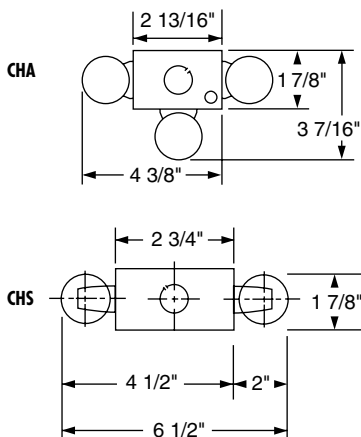
CHA - Two or three lamps
mounted at 90°
24", 36", 48"



CHA and CHS Striplites are ideal for custom lighting in retail stores and commercial environments.



Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat with removable wireway access panel. Fixture is shipped fully wired. Secure wireway cover with screw. Ample knockouts provided.

Options

Options include modular wiring and master unit ballast driving multiple fixtures, e.g., CHS232 B11 4L-M will drive the second fixture CHS232-S (less ballast). Optional plug-in wiring system described in detail on page 92.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Individual or continuous row.

CHA and CHS Striplites Ordering Information

Series	# Lamps	Lamps	ELS Options
CHA = Lamps mount at 90°	1 (CHS only)	17 = 17W 24" T8	ELS1 = Emergency Lighting (low lumens)
CHS = Side-mount lamp(s)	2	20 = 20W 24" T12	
	3 (CHA only)	25 = 25W 36" T8	ELS2 = Emergency Lighting (medium lumens)
	21 = Tandem, 2 lamps (CHS Only)	30 = 30W 36" T12	
		32 = 32W 48" T8	ELS3 = Emergency Lighting (high lumens)
		40 = 34 or 40W 48" T12	
		96 = 96" T8 Slimline (CHS 1-lamp only)*	

*CHS196 is 4" wide x 3" deep

Ballast	Switching	Voltage
B5 = Electronic T12	FOR 3 LAMP UNITS	UNV = 120-277V
B11 = Electronic T8	Blank = dual ballasts	120 = 120V
B11HP(x) = HPT8**	3L = (1) 3-lamp ballast	277 = 277V
D = Dimming (specify ballast)		

**CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options

CORD AND PLUG

- CPT(x)
 - 1 = 120V
 - 2 = 277V
- CP3 = Cord & Plug - 120V Straight Blade 5-15P

PLUG-IN CONNECTORS

- Ballast wired to Black:
 - PL1 - one circuit, two wires
 - PL2 BK - two circuits, three wires
- Ballast wired to Red:
 - PL2 RD - two circuits, three wires

- FB = Fast blow fuse
- SB = Slow blow fuse



Housing

Die formed heavy gauge steel chemically treated to ensure superior adhesion of post production applied high reflectance powder coating.

Electrical

Fully wired for electronic T5, UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Ceiling or surface mount. 3/8" feed connector is included for use with steel flex conduit. Not recommended for through wiring.

Introducing the new **LP5 and LS5** series, a revolutionary Low Profile line of Single lamp T5 open strips. LP5 is an open strip with a distinctly low profile (7/8") and even with lamp is a mere 1 5/8" high. The width is a slim 1 1/4" making the LP5 the thinnest and lowest profile strip on the market. Perfect for accent and task lighting. Both also include exclusive tabbed lamp holders for ease of changing lamps and assurance that the lamp is properly seated in the socket.

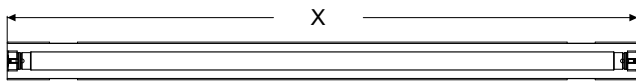
LP5 Low Profile Ordering Information

Series	# Lamps	Lamps	Ballast	Voltage
LP5	1	<i>Preheat</i> 06 = F6T5 (9") 120V Only 08 = F8T5 (12") 120V Only <i>Standard</i> 14 = F14T5 (22") 21 = F21T5 (34") 28 = F28T5 (46") <i>HO</i> 24H = F24T5HO (22") 39H = F39T5HO (34") 54H = F54T5HO (46")	E = Electronic	U1 = 120-277V 120 = 120V

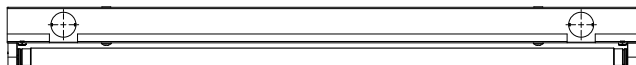
LS5 Low Profile Side-Mount Ordering Information

Series	# Lamps	Lamps	Ballast	Voltage
LS5	1	<i>Standard</i> 14 = F14T5 (22") 21 = F21T5 (34") 28 = F28T5 (46") <i>HO</i> 24H = F24T5HO (22") 39H = F39T5HO (34") 54H = F54T5HO (46")	E = Electronic	U1 = 120-277V

Dimensions

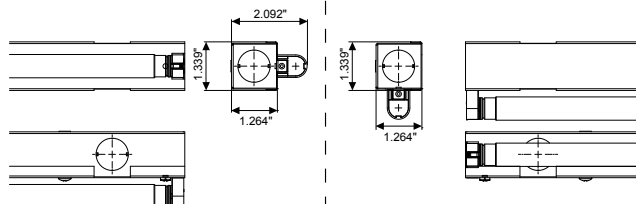


114 / 124H models: X=22.402"
 121 / 134H models: X=34.213"
 128 / 154H models: X=45.984"



LP5 Standard Mount

LS5 Side Mount

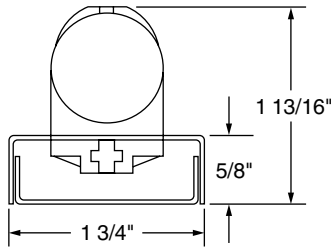




WS Series Slim Striplite and remote ballast box fixture are ideal for tight areas requiring multiple fixtures.



Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Removable front panel allows access for wiring with snap-in conduit fittings on site. Quick assembly to back panel with screws provided. Embossed mounting holes through fixture speed up mounting to surface and allow remote assembly, if required. Striplite is shipped separate from remote ballast box and flex assemblies.

Electrical

Ballast and flex prepared as specified. Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting and Ballast Box

One 18" ballast box can comfortably handle up to 4 striplites, utilizing the four standard knockouts. Ballast box access cover is held in place with tab and quarter-turn fastener.

WS Series Slim Striplite Ordering Information

Series	Lamp
WS = Single lamp Slim Channel, one conduit hole	117 = 17W T8 (26" fixture length)
WSWT = Channel for wire thru, conduit hole on each end = add 2" length	125 = 25W T8 (38" fixture length)
	132 = 32W T8 (50" fixture length)

18" ballast box ordering information

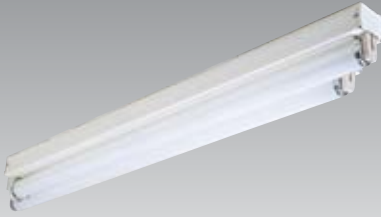
Box	# Lamps Driven*	Ballast	Voltage
WSRB	1	B11 = Electronic T8	UNV = 120-277V
	2	B11HP(x) = HPT8**	
	3		
	4		

*Specify number of lamps to be driven by one ballast to a maximum of 4.
** CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Flex connectors

Series	Length*	# Wires + Ground*	Connector (end 1)	Connector (end 2)
WSFL	6 = 6'(standard)	3W = 3 wire (red, green, blue)	STR = Straight 90 = 90°	STR = Straight 90 = 90°

*Contact factory for other lengths and wire configurations



STC Staggered Striplites are ideal for custom lighting in retail stores and commercial environments. Striplites are available in 2', 3', 4', and 8' Tandem as well as continuous row mounting.



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat with removable wireway access panel. Fixture is shipped fully wired. Secure wireway cover with screw. KOs provided.

Options

Optional plug-in wiring system described in detail on page 92.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Individual or continuous row. STC features staggered ends to eliminate shadows at overlap.

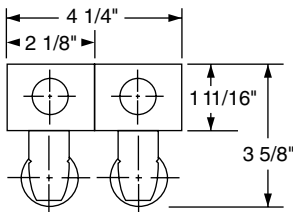
STC Staggered Series

Single Lamp Length	Double Lamp Length
24"	27"
36"	39"
48"	51"
93" (2 lamp)	99" (4 lamp)

STC Ordering Information

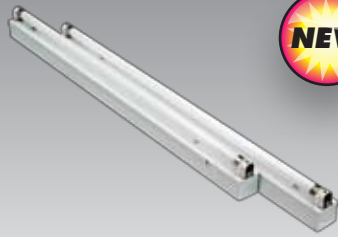
Series	# Lamps	Lamp Type	ELS Options
STC	1	17 = 17W 24" T8	ELS1 = Emergency Lighting (low lumens)
	2	20 = 20W 24" T12	ELS2 = Emergency Lighting (medium lumens)
	21 = Tandem two Lamps	25 = 25W 36" T8	ELS3 = Emergency Lighting (high lumens)
	22 = Tandem four Lamps	30 = 30W 36" T12	
		32 = 32W 48" T8	
		40 = 34 or 40W 48" T12	

Dimensions



Ballast	Voltage	Options
B5 = Electronic T12	UNV = 120-277V	CORD AND PLUG
B11 = Electronic T8	120 = 120V	CPT(x)
B11HP(x) = HPT8*	277 = 277V	1 = 120V
D = Dimming (specify ballast)		2 = 277V
		CP3 = Cord & Plug - 120V Straight Blade 5-15P
		PLUG-IN CONNECTORS
		<i>Ballast wired to Black:</i>
		PL1 - one circuit, two wires
		PL2 BK - two circuits, three wires
		<i>Ballast wired to Red:</i>
		PL2 RD - two circuits, three wires
		FB = Fast blow fuse
		SB = Slow blow fuse

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



Housing:

Die formed heavy gauge steel with high gloss powder coat finish. Removable wire-way access panel. Knockouts provided on ends and back for through or direct wiring. Lamp holders are "Tab" type for ease of relamping and to assure lamp is properly seated in the sockets.

Mounting:

ST5 can be directly mounted in a cove or undercabinet in continuous rows.

Electrical:

ST5 fixtures are electronic T5, 120-277V 50-60Hz and are UL/cUL listed.

The ST5 is a low profile staggered strip for T5 and T5HO lamps. The ST5 series is specifically designed to fit into small areas and coves, and with an overlap of up to 4", provides smooth and attractive illumination. It can be used in conjunction with the SA5 to assure that cove lighting reaches the entire length of the run.

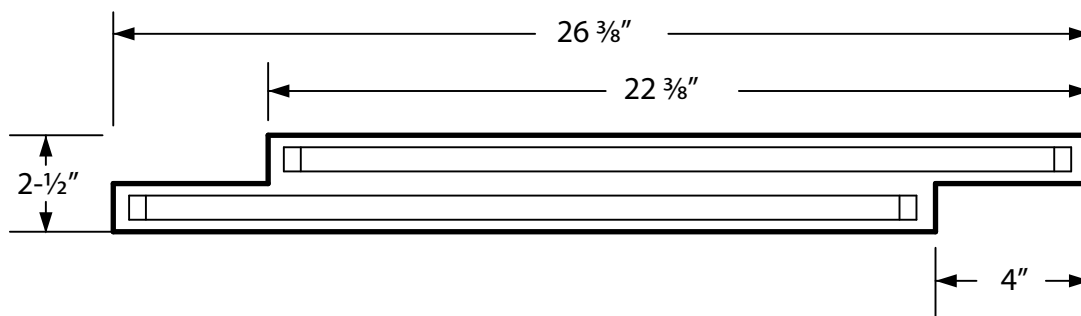
ST5 Ordering Information

Series	Size	# Lamps	Lamp Type
ST5	2 = 2' nominal length 26" overall length	2	14 = 14 watt T5 (2' unit)
	3 = 3' nominal length 38" overall length		21 = 21 watt T5 (3' unit)
	4 = 4' nominal length 50" overall length		28 = 28 watt T5 (4' unit)
			54H = 54 watt T5HO (4' unit)

Ballast	Voltage
E = Electronic	U1 = 120-277V

Dimensions

2' Model





The SA5 is a low profile adjustable staggered strip for T5 and T5HO lamps. The SA5 series is specifically designed to fit into small areas and coves and compliments the ST5 series overlap that can be field adjusted to end a run or can be extended to 1 1/2 times its closed length to reduce fixtures required to light a cove with smooth and attractive illumination. The SA5 can also be used as a two lamp T5 strip.

Housing:

Die formed heavy gauge steel with high gloss powder coat finish. Removable wire-way access panel. Knockouts provided on ends and back for through or direct wiring. Lamp holders are "Tab" type for ease of relamping and to assure lamp is properly seated in the sockets.

Mounting:

SA5 can be directly mounted in a cove or undercabinet in continuous rows.

Electrical:

SA5 fixtures are electronic T5, 120-277V 50-60Hz and are UL/cUL listed.

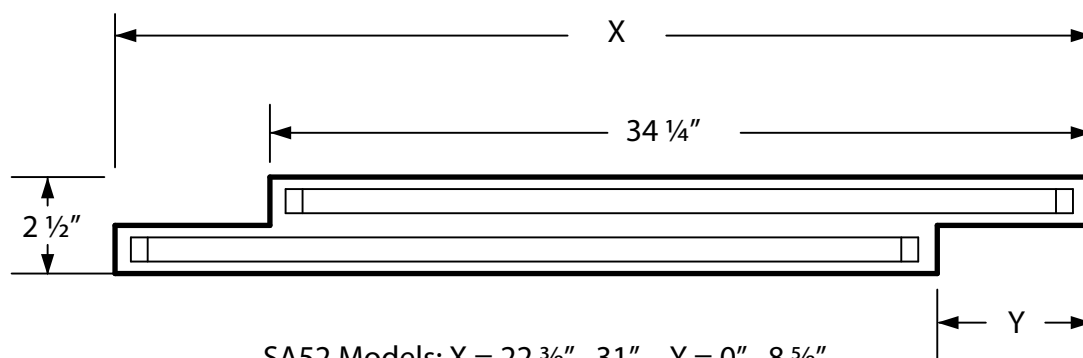
SA5 Ordering Information

Series	Size	# Lamps	Lamp Type
SA5	2 = 2' nominal length adjusts to 30"	2	14 = 14 watt T5 (2' unit)
	3 = 3' nominal length adjusts to 50"		21 = 21 watt T5 (3' unit)
	4 = 4' nominal length adjusts to 65"		28 = 28 watt T5 (4' unit)
			54H = 54 watt T5HO (4' unit)

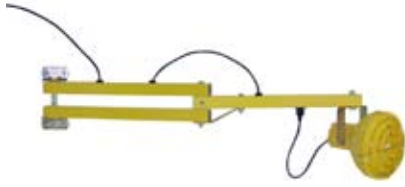
Ballast	Voltage
E = Electronic	U1 = 120-277V

Dimensions

3' Model



SA52 Models: X = 22 3/8" - 31" Y = 0" - 8 5/8"
 SA53 Models: X = 34 1/4" - 49" Y = 0" - 14 3/4"
 SA54 Models: X = 46" - 66" Y = 0" - 20"



Housing

Heavy gauge steel with high-gloss baked "safety" yellow enamel finish over rust inhibiting phosphate coat. Single strut (SKDL) mounting arm units are equipped with a folding knuckle joint allowing for horizontal and vertical adjustment. Double strut (SKDDL) mounting arm units provide greater strength and durability. All units supplied with lightweight, corrosion resistant polycarbonate lamp head.

Electrical

6' 120V 18-3 cord, plug, and rocker switch supplied. UL listed.

Mounting

Horizontal mount. Two piece wall mounting bracket provided.

The docklight series uses polycarbonate heads for resistance to dents, breaks and stays cool to the touch. Double strut arms (SKDDL) on the HID model provides sturdy, durable construction. High pressure sodium option is available for long lamp life and lower starting temperature.

SKDL and SKDDL Series Ordering Information

Series	Lamp	Arm Length*	Lamp Head
SKDL = Single strut SKDDL = Double strut	HPS = 50W High pressure sodium (Leave blank for R40 or PAR38 150W max)	40 = 40" 60 = 60"	P = Polycarbonate

*For 24" or 90" arm lengths contact factory.

Accessories

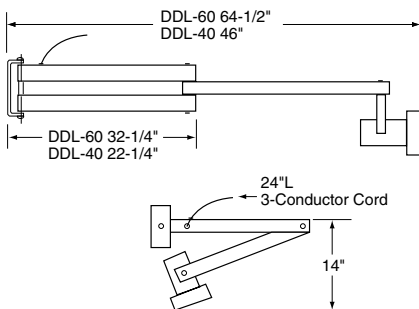
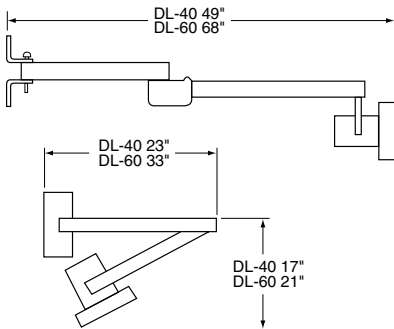
SKWG8P = Stainless steel wireguard to protect lamp. Mounts easily to holes provided in polycarbonate lamp head.
SKDLFAN* - Fan

Replacement Lamp Heads

SKINC-HEAD = For incandescent models
SKHPS-HEAD = For high pressure sodium models

*Available with SKDDL, double strut only. Lamp provided.

Dimensions







Fluorescent SPECIALTY

When special needs arise, Simkar has the solution. We offer a large number of fixtures that are designed to meet specific requirements ranging from conventional fixtures in 20 gauge to architectural fixtures designed to meet the needs of the healthcare industry.

We offer a full line of fluorescent under-cabinet fixtures in T12, T8, and T5 to fit in shallow spaces and provide task lighting where it is needed most.

Our line of Bath-Bars are decorative as well as functional with a virtual rainbow of accent colors and finishes to compliment any décor.

When vandal resistance is a concern, Simkar offers CFL and linear fluorescent products that are as attractive as they are durable.



ADA Compliant

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided on back.

Diffuser

Consists of a UV acrylic clear ribbed, white ribbed, or smooth white lens, mated to one of a variety of end caps. The end caps are available in wide and narrow versions in a range of colors and textures. Diffuser is secured to housing with spring clips. ADA Compliant.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

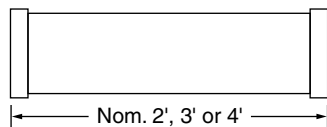
Surface mount wall or ceiling, vertical or horizontal.

WECN and **WECW** End Cap Bath Bars are versatile, stylish fixtures that can be used in many applications to complete a room. Range of colors, textures, trim options, and sizes to meet all decorating schemes and lighting requirements. Superior fit and finish – no exposed metal work or open joints to trap dust. Energy-efficient T8 lamps with improved color rendering bring out natural colors in fabrics, wall treatments, and skin tones. Quick installation for ceiling or wall applications.

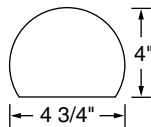
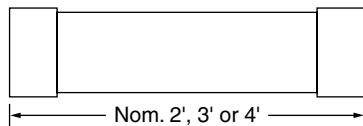


Dimensions

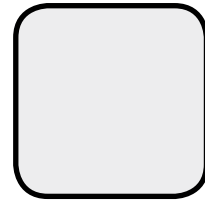
Model WECN - End cap, narrow (1/2" wide)



Model WECW - End cap, wide (1 1/2" wide)



AL-Alabaster



BW-Bone White



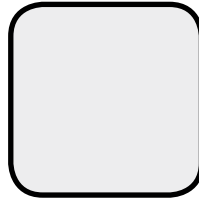
WM-White Marble



IV-Ivory Marble



PM-Peach Marble



SW-Solid White



TO-Tortoise



VG-Verde Green

Available Colors and Textures

WEC Series Ordering Information

Series	Size	Color	Diffuser
WECN = 1/2" end cap	2 = 25.5"	AL = Alabaster	CR = Clear ribbed
WECW = 1 1/2" end cap	3 = 37.5"	BW = Bone White	WR = White ribbed
	4 = 49.5"	IV = Ivory Marble	WS = White smooth
		PM = Peach Marble	
		SW = Solid White	
		TO = Tortoise	
		VG = Verde Green	
		WM = White Marble	

Trim	Lamps	Ballast	Voltage
B = Brass (WECW only)	217 = (2) 17W 24" T8	B11 = Electronic T8	UNV = 120-277V
C = Chrome (WECW only)	225 = (2) 25W 36" T8	B11 HP(x) = HPT8*	120 = 120V
N = None	232 = (2) 32W 48" T8	B22 = LPF T8/T12	277 = 277V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

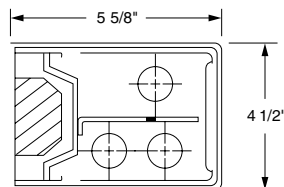
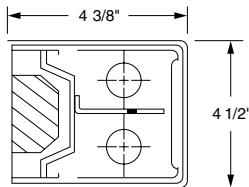


Two lamp OM Series in white finish.

OM Series White or Walnut Finish fixtures are designed with switchable general or task lighting levels, built-in night light and convenience outlet.



Dimensions



OH and OM Series fixtures are designed for patient-care facilities with features care-givers require, such as switchable general or task lighting levels, or use of built-in night light and convenient outlet.

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. 3' or 4' enclosed units. Available in white or walnut. Standard model has front baffle, center baffle, convenience outlet, night light with push switch, and four-position T-rated pull switch for up or down light selection.

Shielding

Acrylic diffuser and linear prism provides glare-free illumination and efficient light distribution

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Surface wall mount horizontal.

**OM Health Care Series
Ordering Information**

Series	# Lamps	Lamp Type
OMG = Walnut tone on steel	2	17 = 17W 24" T8
OMW = White	3	25 = 25W 36" T8 32 = 32W 48" T8

Ballast	Dual Switching Options	Voltage	Options
B11 HP(x) = HPT8* B11 = Electronic T8	1DN 1UP = 1 down 1 up 2DN 1UP = 2 down, 1 up 1DN 2UP = 1 down, 2 up	UNV = 120-277V 120 = 120V	LA = Less switch, nightlight and outlet LCO = Less convenience outlet LIB = Less internal baffle LSF = Less fascia for milk white translucent front LPSW = Less pull switch LNL = Less night light

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.



AWAL 325 B11 (ADA Compliant)



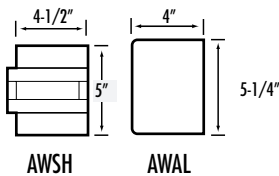
AWSHM 325 B11

Fixtures are available in a variety of styles and finishes.

- Translucent faux alabaster or real wood accented fascias.
- Classic shaker design available in 3 popular wood tones.
- Fully enclosed unit for easy cleaning.
- Decorative rounded brass set screws for quick access.
- Flush horizontal wall mount.
- Electronic instant start T8 ballast.
- U.L. listed.



Dimensions



Lengths are 31", 43", 56"

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. 3' or 4' enclosed units. Standard model has center baffle, convenience outlet, night light with pull switch, and four-position T-rated pull switch for up or down light selection.

Shielding

acrylic diffuser provides glare-free illumination and efficient light distribution.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Surface wall mount horizontal.



Mahogany Finish



Cherry Finish

Architectural Health Care Ordering Information

Series	Fascia	# Lamps	Lamp type	Ballast	Switching**
AW	AL = Alabaster*	2	17 = 17W 24" T8	B11 = Electronic T8	For 3 lamp units Blank = dual ballasts 3L = (1) 3-lamp ballast For 2 lamp units Blank = single ballast 2/1L = (2) 1-lamp ballasts
	SHM = Maple	3	25 = 25W 36" T8		
	SHC = Cherry		32 = 32W 48" T8		
	SHMH = Mahogany				

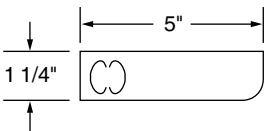
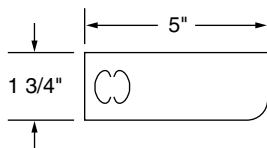
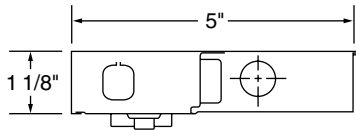
*Alabaster unit is ADA Compliant
 **For 4-way switching, dual ballasts are required.
 Minimum quantities may apply. Contact factory.

Voltage	Options
UNV = 120-277V	LPSW = Less Pull Switch
120 = 120V	LNL = Less Night Light
277 = 277V	LCO = Less Convenience Outlet



UW Task Lighting provides uniform, efficient illumination. UW series is shipped with outlet and turn switch, optional cord and plug available.

Dimensions



Housing

Heavy gauge steel with flush ends. KOs provided top, side and back. Baked white enamel over rust inhibiting phosphate coat, white interior.

Shielding

Snap-in D.R. acrylic diffuser for longer life and less breakage. Ribbed linear prisms for even light distribution. Translucent milk white is standard.

Options

White grounded 6' cordset, grounded convenience outlet, cool white lamp included, and rocker switch are available options.

Electrical

Fully wired for 120V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Individual or continuous rows.

UW Task Lighting Ordering Information

Series	Lamps	Ballast	Voltage
UW	117 = (1) 17W 24" T8	B11 = Electronic T8	UNV** = 120-277V
	125 = (1) 25W 36" T8	B11HP(x) = HPT8*	120 = 120V
	132 = (1) 32W 48" T8	B22 = Electronic T8/T12 LPF	
	20 = 20W 24" T12		
	30 = 30W 36" T12		

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

**UNV only available when unit is less outlet and switch

Options

- Standard with outlet and turn switch.
- LA** = Less outlet and turn switch
- C** = 120V 6' white 3-wire cord and plug
- RSW** = 120V Rocker switch
- LCO** = Less convenience outlet
- LSW** = Less turn switch



Housing

Heavy gauge steel with baked white enamel over rust inhibiting phosphate coat, deburred, flush ends. Flattened KOs provided, top, back, and sides. Forward throw angled housing (JBH). JBUY has 1-5/8" upright cutouts for snap-in diffuser.

Shielding

Snap-in clear pattern 12 prismatic acrylic. Viewing edge is linear prism for enhanced side lighting (OW).

Options

6' white 3 wire cord and plug, hardware/conduit connector, grounded convenience outlet, fast blow fuse, slow blow fuse, and rocker switch are available.

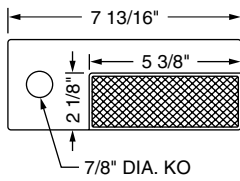
Electrical

Factory wired for 120V operation, thermally protected, Class P, sound rated A electronic ballast. UL listed.

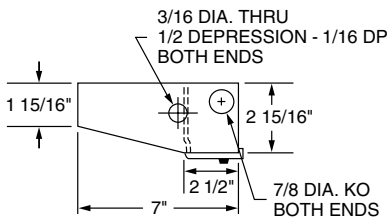
Mounting

Individual or continuous rows. OW and JBH units are intended for surface wall mount, horizontal use.

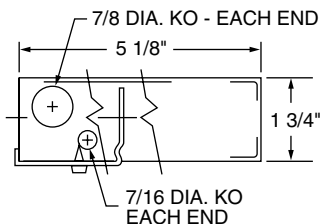
Dimensions



OW



JBH



KW

KW, JBH And OW Task Lighting Ordering Information

Series	# Lamps	Lamp Type	Ballast	Voltage
OW = Prismatic Front and Side	1	17 = 17W 24" T8	B11 = Electronic T8	UNV** = 120-277V
OWU = OW with Uplight	2	20 = 20W 24" T12	B22 = LPF Electronic T8/T12	120 = 120V
JBH = Forward Throw		25 = 25W 36" T8	B11HP(x) = HPT8*	
JBUY = Forward Throw with Uplight Diffuser		30 = 30W 36" T12		
KW = (1 lamp only) Solid front		32 = 32W 48" T8		
		40 = 34/40W		
		48" T12		

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

**UNV only when unit is less outlet and turn switch

Options

- C = 120V 6' white 3-wire cord and plug
- CO = Grounded convenience outlet
- SB = Slow Blow Fuse
- FB = Fast Blow Fuse
- RSW = 120V Rocker switch
- SW = 120V Turn Switch

Options only available on 120V units



Miniature Electronic T5 Task

MINI13

The ultra-compact, **MINI series**, with an integral micro-electronic T5 ballast provides maximum design flexibility for demanding home and office projects where excellent color rendering, long lamp life and superior lamp efficacy are essential. The MINI's tiny, trim profile mounts neatly out of view.

- The MINI's shadow-free illumination is ideal for intricate tasks like cutting.
- Designed to meet stringent energy codes like TITLE 24, the MINI's T5 lighting system produces more light using less energy.
- The MINI's high CRI lamps create color correct illumination.
- 4100K T5 lamps included

MINI Features & Benefits

- Miniature profile 1" H x 3.5" W is ideal for use in confined areas.
- High performance electronic ballast and T5 lamp(s) produce instant-on, quiet, flicker-free light.
- Stay white, snap fit, damage resistant white ribbed acrylic lens provides even illumination.
- Fastener-free housing is post-painted after fabrication to ensure a high quality finish.
- Includes conduit connector and mounting hardware.
- Hingeable service tray for quick installation and maintenance.
- Rocker switch and grounded convenience available as field installed kit. Order part number (SWCO-KIT).
- U.L. listed.

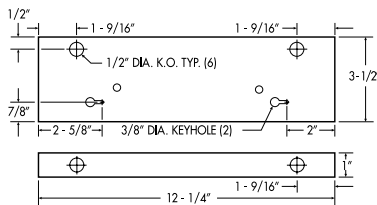
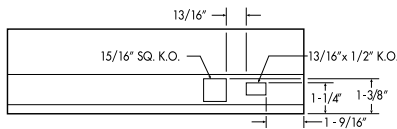
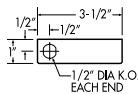
Great For Tight Spaces



Just 3.5" Wide

Miniature 1" x 3.5" profile is ideal for space restricted areas.

Dimensions



ADDITIONAL LENGTHS ARE 21-5/16", 24-1/2", 33-1/2" AND 42-1/2"

T5 Fluorescent MINI Series Ordering Information 4100K T5 lamps included (standard)

Series	Lamps	Ballast	H	L	W	Input Wattage
MINI	8L1 = (1)-8WT5	Electronic, Instant Start NPF 120V	1"	12-1/4"	3-1/2"	6.5
	13L1 = (1)-13WT5	Electronic, Instant Start NPF 120V	1"	21-5/16"	3-1/2"	11.8
	28L1 = (2)-8WT5	Electronic, Instant Start NPF 120V	1"	24-1/2"	3-1/2"	17.1
	813L1 = (1)-8WT5 & (1)13WT5	Electronic, Instant Start NPF 120V	1"	33-1/2"	3-1/2"	21.2
	213L1 = (2)-13WT5	Electronic, Instant Start NPF 120V	1"	42-1/2"	3-1/2"	25.2

Accessories

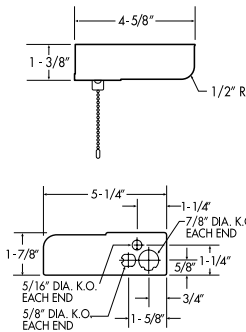
SWCO-KIT = Rocker switch and outlet (field install)



The **SLIM** series, rugged design for commercial and industrial applications, is available in 4 lengths and accommodates all popular T8 and T12 lamp types commonly found in other luminaires in commercial facilities, reducing the number of lamps on the maintenance schedule.

- The SLIM series is built to provide task lighting for assembly and workstations.
- The SLIM series accommodates popular lamp types.
- Available in 4 lengths, the SLIM can be specified with T8 or T12 lamps to fit any application.

Dimensions



SLIM Features & Benefits

- Shallow, unobtrusive 1-7/8" depth provides a discreet source of functional illumination.
- Available in 4 lengths and accommodates popular T8 and T12 lamps.
- Stay white, snap fit, damage resistant white ribbed acrylic lens provides even illumination.
- Housing is post-painted after fabrication to ensure a high quality finish.
- Includes conduit connector and mounting hardware.
- Hingeable service tray for quick installation and maintenance.
- Meets National Electric Code for closet lighting. Includes on/off pull chain, F15T8 lamp and special knockout pattern for J box mounting (CLOSET15PH).
- Rocker switch and grounded convenience available as field installed kit. Order part number (SWCO-KIT).
- U.L. listed.

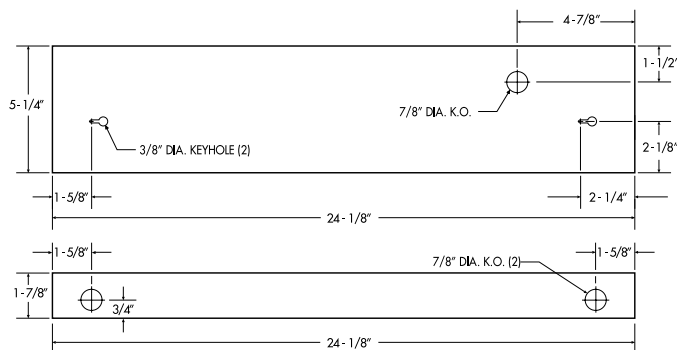


T8 & T12 Fluorescent SLIM Series Ordering Information

Series	Lamps (not included)	Ballast	H	L	W	Input Wattage
CLOSET15PH	(1)-15W T8	Magnetic Preheat, NPF 120V	1-3/8"	18-1/8"	4-5/8"	15
SLIM15TS	(1)-15W T12	Magnetic Trigger Start, NPF 120V	1-7/8"	18-1/8"	5-1/4"	28
SLIM20TS	(1)-20W T12	Magnetic Trigger Start, NPF 120V	1-7/8"	24-1/8"	5-1/4"	30
SLIM30	(1)-30W T12	Magnetic Rapid Start, NPF 120V	1-7/8"	36"	5-1/4"	30
SLIM40	(1)-34/40W T12	Magnetic Rapid Start, NPF 120V	1-7/8"	48"	5-1/4"	34/40
SLIM17B11	(1)-17W T8	Electronic, Instant Start HPF 120V	1-7/8"	24-1/8"	5-1/4"	20
SLIM25B11	(1)-25W T8	Electronic, Instant Start HPF 120V	1-7/8"	36"	5-1/4"	25
SLIM32B11	(1)-32W T8	Electronic, Instant Start HPF 120V	1-7/8"	48"	5-1/4"	31

Accessories

SWCO-KIT = Rocker switch and outlet (field install)



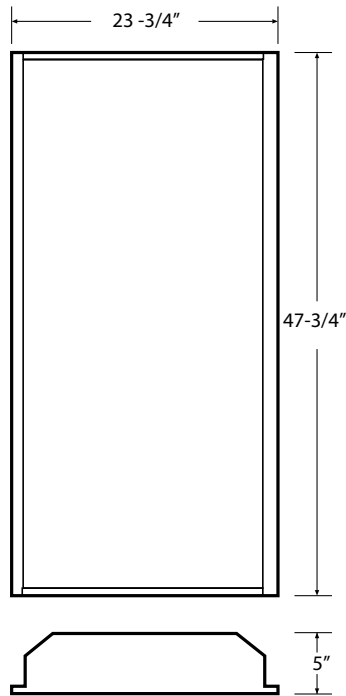
ADDITIONAL LENGTHS ARE 18-1/8", 36" AND 48"



TEP Deep Cell Parabolics are attractive high-efficiency fixtures that produce uniform low brightness in the 60°- 90° zone.



Dimensions



Housing

Die-formed 20 gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Full black reveal and hinged louver for easy relamping. Access plate provided with 2 KOs and ground screw.

Shielding

Low iridescence, anodized, semi-specular aluminum parabolic, nominal 3" deep-cell louver held securely by steel latches. "T" hinges allow access from either side.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Optional EC515 Earthquake Clip for lay-in grid ceilings. For flanged unit use GCK kit. (See page 91) Flanged units require field assembly.

TEP 20 Gauge Series Ordering Information

Series	Size	# Lamps	Lamp type	Cell Configuration	Louver Finish
TEP	124 = 1 x 4	2	14 = 14W T5	8C = 1x4 (1 row of 8)	G = Gold W = White S = Specular
	242 = 2 x 2	3	17 = 17W T8	9C = 2x2 (3 rows of 3)	
	244 = 2 x 4	4	24 = 24W T5HO	12C = 2x2 (3 rows of 4)	
			28 = 28W T5	12C = 2x4 (2 rows of 6)	
			32U = 32W U6" T8*	16C = 2x2 (4 rows of 4)	
			32 = 32W T8	18C = 2x4 (3 rows of 6)	
			40TT = 40W TT	24C3X8 = 2x4 (3 rows of 8)	
			54 = 54W T5HO	24C4X6 = 2x4 (4 rows of 6)	
				27C = 2x4 (3 rows of 9)	
				32C = 2x4 (4 rows of 8)	

* For 1 5/8" please specify

Options	Ballast	Switching	Voltage	Housing
ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8 B11HP(x) = HPT8 *	FOR 3 AND 4 LAMP UNITS Blank = dual ballasts	UNV = 120-277V	20GA = 20 Gauge
ELS2 = Emergency Lighting (medium lumens)	B12 = Electronic T5 B14 = Electronic TT	3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast	120 = 120V 277 = 277V	
ELS3 = Emergency Lighting (high lumens)		FOR 2 LAMP UNITS Blank = single ballast 2/1L = (2) 1-lamp ballasts		

* CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options	Accessories
L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed)	EC515 = Earthquake Clip
FL4 = 3/8", 6' flex with two #18, one ground and two connectors	Grid Conversion Kits
FL5 = 3/8", 6' flex with three #18, one ground and two connectors	GCK 14 = 1' x 4'
M = Master; includes 9' intertie and snap-in connector	GCK 22 = 2' x 2'
S = Satellite; includes snap-in connector	GCK 24 = 2' x 4'



Housing

Die-formed 20 gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Flush white steel door frame with mitered corners that can be hinged from either side. Swing-action cam latches provide positive fit. Light traps standard. Access plate providing 2 KOs and ground screw.

Shielding

Clear prismatic acrylic lens is standard. Other lens options available.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

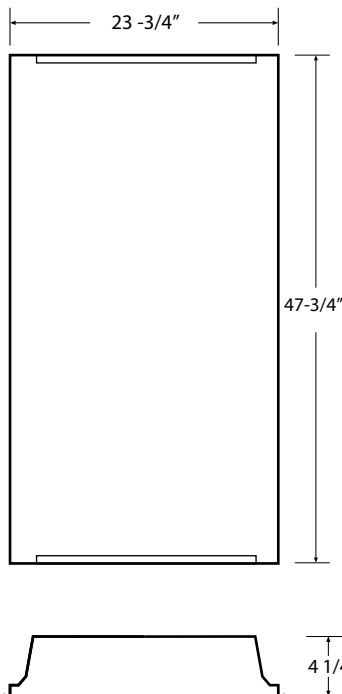
Lay-in (T) or Flange (F) troffer.



TY 20 Gauge Troffer Ordering Information

Series	Lens	Size
T	Y = .090 prismatic acrylic (standard)	124 = 1 x 4
XT = Powder coat	K = .125 clear prismatic acrylic	242 = 2 x 2
	B = .125 clear prismatic polycarbonate	244 = 2 x 4
	U = .156 prismatic acrylic	

Dimensions



# Lamps	Lamp Type	Options	Ballast	Switching
2	14 = 14W 24" T5	ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8	FOR 3 AND 4 LAMP UNITS
3	24 = 24W 24" T5HO	ELS2 = Emergency Lighting (medium lumens)	B11HP(x) = HPT8***	Blank = dual ballasts
4	28 = 28W 48" T5	ELS3 = Emergency Lighting (high lumens)	B12 = Electronic T5	3L = (1) 3-lamp ballast
	32 = 32W 48" T8		B14 = Electronic TT	4L = (1) 4-lamp ballast
	32U = 32W U6" T8*			FOR 2 LAMP UNITS
	40TT = 40W 22" TT**			Blank = single ballast
	54 = 54W 48" T5HO			2/1L = (2) 1-lamp ballasts

*For 1-5/8" please specify.

**Requires dedicated voltage ballast.

***CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Voltage	Housing	Options
UNV = 120-277V 120 = 120V 277 = 277V	20GA = 20 Gauge	L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed) FL4 = 3/8", 6' flex with two #18, one ground and two connectors FL5 = 3/8", 6' flex with three #18, one ground and two connectors M = Master; includes 9" intertie and snap-in connector S = Satellite; includes snap-in connector

Accessories

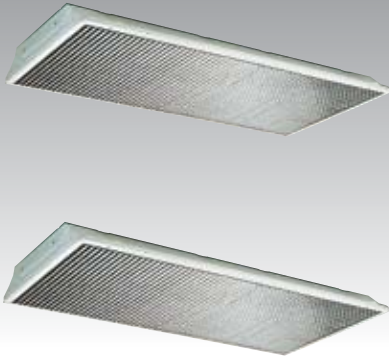
EC = Earthquake Clip, 4-pack

FTI (Flange Trim Kits)

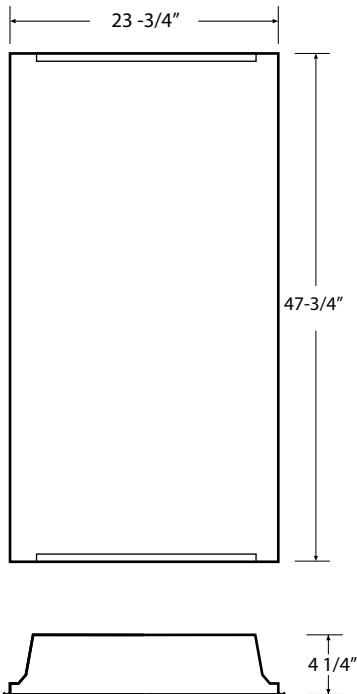
FTI 14 = 1' x 4'

FTI 22 = 2' x 2'

FTI 24 = 2' x 4'



Dimensions



Housing

Die-formed 20 gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Flush white steel door frame with mitered corners that can be hinged from either side. Swing-action cam latches provide positive fit. Light traps standard. Access plate providing 2 KOs and ground screw.

Shielding

Clear prismatic acrylic lens is standard. Other lens options available.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Lay-in (T) or Flange (F) troffer.

Ordering Information

Series	Louver	Size
F = Flange	A = 1/2" x 1/2" x 1/2" cell	124 = 1 x 4
T = Lay-in	J = 3/4" x 3/4" x 1/2" cell	242 = 2 x 2
XF = Powder coat, flange	L = 1/2" x 1/2" x 1/2" egg crate, white	244 = 2 x 4
XT = Powder coat, lay-in	S = 1-1/2" x 1-1/2" x 1"	

# Lamps	Lamps	Louver Finish	Options	Ballast
2	14 = 14W 24" T5	S = Silver specular (standard)	ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8
3	24 = 24W 24" T5HO	G = Gold	ELS2 = Emergency Lighting (medium lumens)	B11HP(x) = HPT8***
4	28 = 28W 48" T5		ELS3 = Emergency Lighting (high lumens)	B12 = Electronic T5
	32 = 32W 48" T8			B14 = Electronic TT
	32U = 32W U6" T8*			
	40TT = 40W 22" TT**			
	54 = 54W 48" T5HO			

*For 1-5/8" please specify.

**Requires dedicated voltage ballast.

***CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Switching	Voltage	Housing
For 3 and 4 lamp units Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast	UNV = 120-277V 120 = 120V 277 = 277V	20GA = 20 Gauge
For 2 lamp units Blank = single ballast 2/1L = (2) 1-lamp ballasts		

Options	Accessories
L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed) FL4 = 3/8", 6' flex with two #18, one ground and two connectors* FL5 = 3/8", 6' flex with three #18, one ground and two connectors* M = Master; includes 9' intertie and snap-in connector S = Satellite; includes snap-in connector	EC = Earthquake Clip, 4-pack FTI (Flange Trim Kits) FTI 12 = 1' x 2' FTI 14 = 1' x 4' FTI 22 = 2' x 2' FTI 24 = 2' x 4'

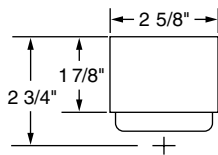
*Contact factory for other available options



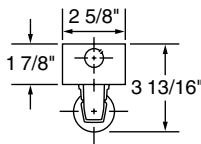
Striplite Series is ideal for general purpose lighting in retail stores and commercial environments. Available in 2', 3', and 4' individual lengths as well as continuous row mounting.



CHT



Dimensions



Housing

Die-formed heavy 20 gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat with removable wireway access panel. Ample knockouts provided on side, back and ends. Shipped fully wired and assembled, including socket saddle. Simply attach wireway cover with turn fastener provided.

Options

Modular wiring and emergency lighting battery packs are available options.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified (except slimline and HO models). UL listed damp location.

Mounting

Optional plug-in wiring system described in detail on page 92.

CH 20 Gauge Striplite Ordering Information

Series	# Lamps	Lamps		ELS Options
CH	1	15 = 15W 18" T8	32 = 32W 48" T8	ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)
	2	17 = 17W 24" T8	40TT = 40W 22" TT	
	21 = Tandem, two lamps	25 = 25W 36" T8	54 = 54W T5HO	
	22 = Tandem, four lamps			

Ballast	Switching	Voltage	Housing
B11 = Electronic T8 B11HP(x) = HPT8* B12 = Electronic T5 B14 = Electronic TT	For 4 lamp units Blank = dual ballasts 4L = (1) 4-lamp ballast For 2 lamp units Blank = single ballast 2/1L = (2) 1-lamp ballasts	UNV = 120-277V 120 = 120V 277 = 277V	20GA = 20 Gauge

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options	Accessories
Cord and Plug CPT(x) 1 = 120V 2 = 277V CP3 = Cord & Plug - 120V Straight Blade 5-15P PLUG-IN CONNECTORS Ballast wired to Black: PL1 - one circuit, two wires PL2 BK - two circuits, three wires Ballast wired to Red: PL2 RD - two circuits, three wires	CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24" CS24 = "S" Hook (4) Chain Hanger Assembly (24" total drop) PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72) C = Single white canopy (for use with pendant mount) SN = Snapper Brackets Wire Guards WG(x)20 = 24" (Specify # Lamps) (1 or 2) WG(x)30 = 36" (Specify # Lamps) (1 or 2) WG(x)40 = 48" (Specify # Lamps) (1 or 2)



Slimline and High Output Channels are ideal for maximum illumination in retail stores and commercial environments. Available in 4', 6', and 8' individual lengths as well as continuous row mounting.

Housing

High-gloss, baked white enamel finish on steel housing with removable wireway access panel. Fixture is shipped fully wired and assembled. CHX models have patented (#4,422,132) flip-up socket bar and turn fastener for attaching wireway cover.

Options

Options include modular wiring, plug-in systems and wire guards.

Electrical

Fully wired for 120V, 60Hz operation with thermally protected, automatic resetting, Class P, high-power-factor ballast, unless otherwise specified. UL listed, damp location.

Mounting

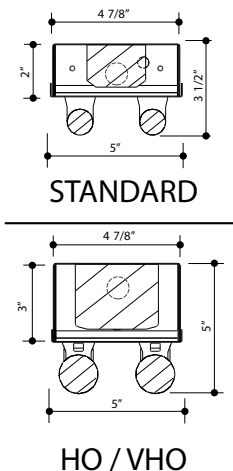
Surface or pendant mount, high output model must be suspended at least 6" from ceiling for cooler operation.

CHX Slimline And High Output Channel Ordering Information

Series	# Lamps	Lamps	Options	Ballast
CHX	1	48 = 48"	ELS1 = Emergency Lighting (low lumens)	B5 = Electronic T12
	2	72 = 72"	ELS2 = Emergency Lighting (medium lumens)	HOB5 = High Output Electronic T12
	21 = Tandem, Two Lamps	96 = 96"	ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8 HOB11 = High Output Electronic T8 HO = High Output VHO = Very High Output

Voltage	Options	Accessories
UNV = 120-277V 120 = 120V 277 = 277V	6' CORD AND PLUG CPT(x) 1 = 120V 2 = 277V CP3 = Cord & Plug - 120V Straight Blade 5-15P Plug-in Connectors Ballast wired to Black: PL1 - one circuit, two wires PL2 BK - two circuits, three wires Ballast wired to Red: PL2 RD - two circuits, three wires	CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24" CS24 = "S" Hook (4) Chain Hanger Assembly (24" total drop) PM(x) = Pendant Mount, white stem - specify length in inches (24, 36, 48, 60, 72) C = Single white canopy (for use with pendant mount) SN = Snapper Brackets Wire Guards WG230 = 36" (Order 2 for 72" units) WG240 = 48" (Order 2 for 96" units)

Dimensions

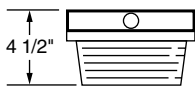
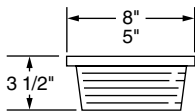
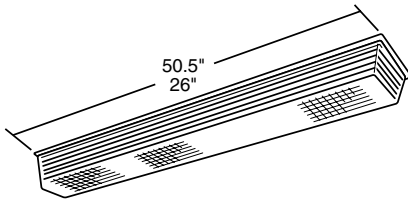




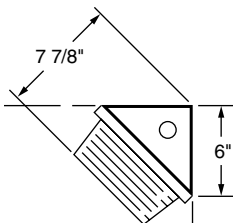
V4000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. High abuse fluorescent fixture for T8 available in two lamp models.



Dimensions



with Back Box



Corner Box

Housing

Marine Grade A, heavy-gauge aluminum with gasketing for maximum corrosion resistance, offered with optional back boxes. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Fixtures have white housing.

Shielding

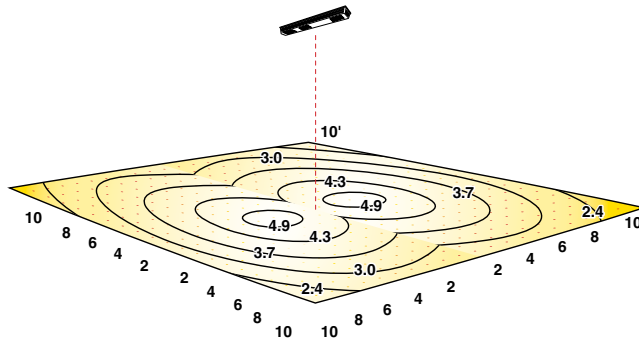
High-impact, UV Treated, multipatterned polycarbonate for remarkable impact strength.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed, wet location ceiling mount, damp location wall mount.

Mounting

Wall or ceiling, indoor. Corner mount available.



Horizontal Illuminance Analysis: Model V4232 Scale and Surface: .25" to 1' (1' Grid) Units: Footcandles

V4000 Series Ordering Information

Series	Lamp Type	Housing	Ballast
V4	217 = (2) 17W 24" T8	A = Aluminum (standard)	B11 = Electronic T8
VC4 = Vandal Resistant, steel corner box	232 = (2) 32W 48" T8		B11HP(x) = HPT8*

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Voltage	Options	Accessories
UNV = 120-277V 120 = 120V 277 = 277V	MS = Maximum security (Tamperproof screws) L1 = Lamps	V401A20 = Aluminum back box for 1/2" conduit for 20W unit V401A40 = Aluminum back box for 1/2" conduit for 40W unit TSD = Tamper-proof screwdriver



Housing

Marine Grade A, heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Incandescent and Compact fluorescent fixtures have white housings.

Shielding

High-impact, UV Treated, clear prismatic polycarbonate for remarkable impact strength.

Electrical

Incandescent fixtures have medium base socket. Fluorescent models are wired for 120V, 60Hz operation. For HID model, see page 212.

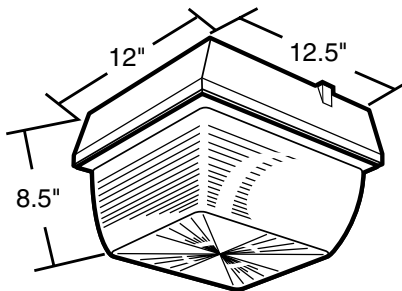
Mounting

Ceiling Mount.

V1000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast on CFL results in lower maintenance costs.



Dimensions



V1000 Series Ordering Information

Series	Lamp Type	Housing
V10	00 = (2) 60W A19 18 = (2) 9W CFL 26 = (2) 13W CFL 26Q = (1) 26W Quad 52Q = (2) 26W Quad <i>See page 212 for HID model (GCS)</i>	A = Aluminum (standard)

Voltage	Options	Accessories
UNV = 120-277V 120 = 120V 277 = 277V	MS = Maximum Security (Tamperproof screws) L1 = Lamps	V101A = Aluminum back box for 1/2" conduit, white TSD = Tamper-proof screwdriver



Housing

Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Fixture housing is white. V501A aluminum back box has a white finish.

Shielding

High-impact polycarbonate for remarkable impact strength.

Electrical

Incandescent fixtures have medium base socket. Fluorescent models are wired for 120V, 60Hz operation. UL listed, wet location: 60W max., damp location: ceiling - 60W max., wall - 75W max.

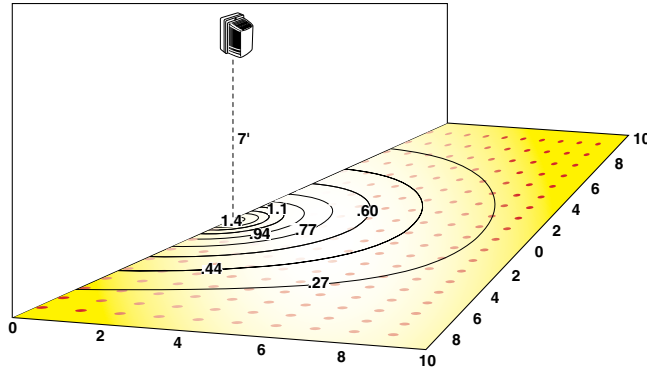
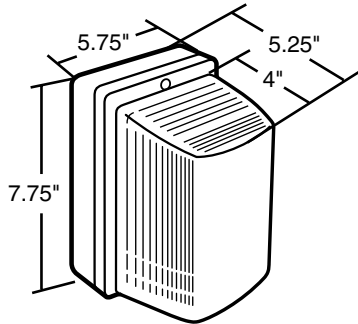
Mounting

Incandescent base up wall mount. See individual models for ratings for ceiling mount.

V5000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast on TT models results in lower maintenance costs. 4" deep models meet ADA requirements.



Dimensions



Horizontal Illuminance Analysis: Model V5014A
Scale and Surface: .25" to 1' (1' Grid)
Units: Footcandles

V5000 Series Ordering Information

Series	Lamp Type	Housing	Voltage
V50	00 = (1) 60W or 75W A19	A = Aluminum (standard)	120 = 120V
	07 = (1) 7W CFL		277* = 277V
	14 = (2) 7W CFL		

*Back box may be required for 277V models

Options	Accessories
MS = Maximum security (Tamperproof screws)	V501A = Aluminum back box for 1/2" conduit, white
W = White polycarbonate lens	TSD = Tamper-proof screwdriver
L1 = Lamps	



Housing

Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Fixture housing is white. All units are Maximum Security (tamperproof screws).

Shielding

High-impact polycarbonate for remarkable impact strength.

Electrical

Incandescent fixtures have medium base socket. Fluorescent models are wired for 120V, 60Hz operation. UL listed, wet location.

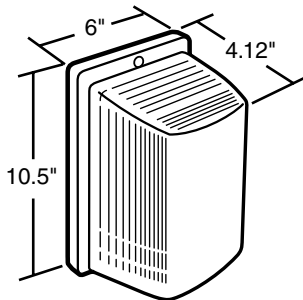
Mounting

Incandescent base up wall mount. See individual models for ratings for ceiling mount.

V6000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast on CFL models results in lower maintenance costs. New design features Quad lamp models.



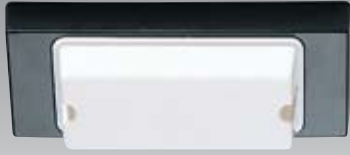
Dimensions



V6000 Series Ordering Information

Series	Lamps	Housing	Voltage
V6	009 = (1) 9W CFL	A = Aluminum (standard)	120 = 120V
	018 = (2) 9W CFL		277 = 277V
	013 = (1) 13W CFL		
	026 = (2) 13W CFL		
	018Q = (1) 18W Quad		
	100 = Max 100W A		

Options	Accessories
MS = Maximum security (Tamperproof screws)	TSD = Tamper-proof screwdriver
L1 = Lamp	



Housing

Marine Grade A heavy-gauge aluminum, painted black, with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance.

Shielding

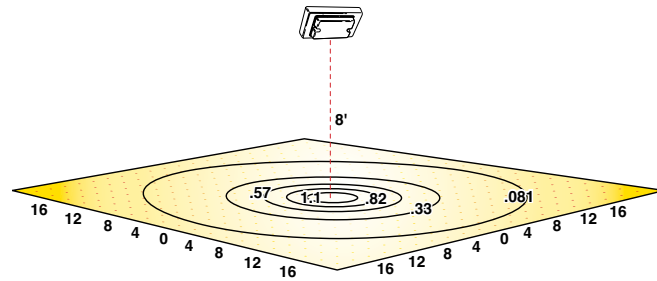
White polycarbonate, high-impact, UV stabilized lens.

Electrical

Wired for 120V, 60Hz operation. UL listed, wet location.

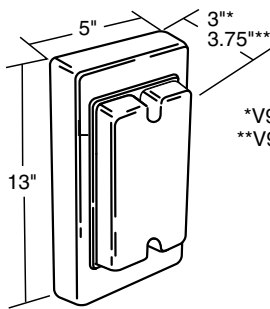
Mounting

Wall, ceiling, indoor, outdoor.



Horizontal Illuminance Analysis: Model V9026
Scale and Surface: .125" to 1' (1' Grid)
Units: Footcandles

Dimensions



*V9013, V9014
**V9026

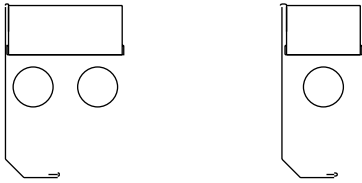
V9000 Series Ordering Information

Series	Lamp Type	Lens
V90	13 = (1) 13W CFL 14 = (2) 7W CFL 26 = (2) 13W CFL	W = White polycarbonate lens (standard)

Voltage	Housing	Options	Accessories
120 = 120V 277 = 277V	A = Aluminum (standard)	L1 = Lamps	TSD = Tamper-proof screwdriver

ARW Asymmetric Reflectors for Striplites

Reflector width = 2", reflector height = 4 9/16", total height = 6 7/16"



Fits CHX and CH Models — One or Two Lamp

ARW 20 – 24"

ARW 30 – 36"

ARW 48 – 48" (order two for 96" units)

Must be ordered as an accessory. Apply AR for aluminum or SR for silver.

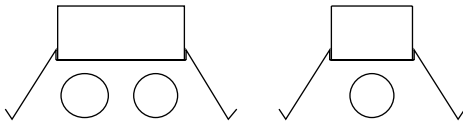
AR = Aluminum Reflector, white

SR = Specular Reflector, silver

Symmetric Reflectors for Striplites

Reflector width = 4 3/4" (2 lamp), 3 1/8" (1 lamp)

Reflector height = 2", total height = 3 7/8"



Fits CHX and CH Models SRW(x) 120 – 24"

SRW(x) 130 – 36"

SRW(x) 140 – 48" (order two for 96" units)

SRW(x) 48 – 48" (two-lamp or wide body, order two for 96" units)

Specify (x) One or Two Lamp

20 = One Lamp

30 = Two Lamp

Must be ordered as an accessory. Apply AR for aluminum or SR for silver.

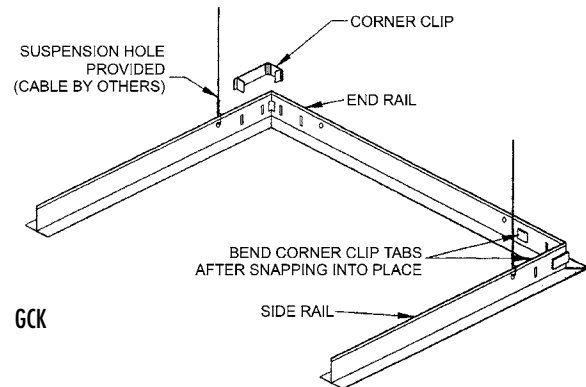
AR = Aluminum Reflector, white

SR = Specular Reflector, silver

Grid Conversion Kits

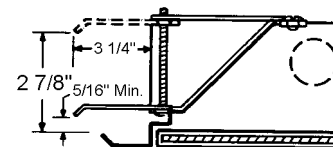
An alternative to flanged fixtures. Complete individual ceiling-mount kits set up for independent suspension. Allows installation of regular lay-in fixtures in sheetrock or plaster ceilings without the use of flange, level lugs or plaster frames PFI. White extruded steel with mitered corners. Easy installation. Bulk packed as required. Not for continuous rows. Check available plenum swing clearance on deep fixtures.

Catalog #	Size	Frame Out
For Parabolics		
GCK 12	1' x 2'	12.5" x 24.5"
GCK 14	1' x 4'	12.5" x 48.5"
GCK 22	2' x 2'	24.5" x 24.5"
GCK 24	2' x 4'	24.5" x 48.5"
For Troffers		
FTI 12	1' x 2'	12.5" x 24.5"
FTI 14	1' x 4'	12.5" x 48.5"
FTI 22	2' x 2'	24.5" x 24.5"
FTI 24	2' x 4'	24.5" x 48.5"



GCK

Type F Level Lug Bracket



FTI

Plaster Frame Kit

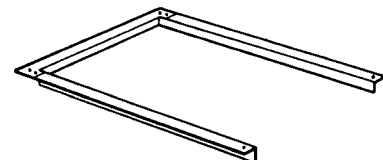
Catalog Number*	Nominal Size	Make Ceiling Opening†‡
PF(x)14 = 14"	1' x 4'	12 1/4" x 48 3/8"
PF (x)22 = 22"	2' x 2'	24 1/4" x 24 3/8"
PF (x)24 = 24"	2' x 4'	24 1/4" x 48 3/8"

†Add only 24" or 48" for fixture in continuous rows.

*Insert "I" for Individual kit; insert "C" for Continuous row; insert "E" for End row kit, e.g. PFI.

‡Add 1/4" if using plaster frame or FTI kit.

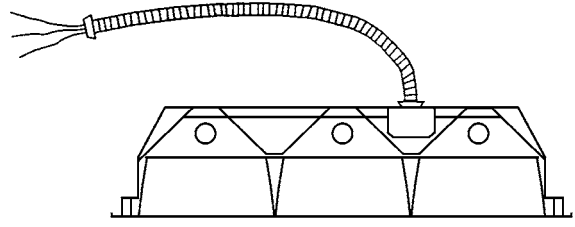
Plaster Frame Kit



6' Flex and Leads (Suffix FL)

Specify desired flex:

- FL1 = 3/8" flex with two #18, one ground and one connector
- FL2 = 3/8" flex with three #18, one ground and one connector
- FL3 = 1/2" flex with three #18, one ground and one connector
- FL4 = 3/8" flex with two #18, one ground and two connectors (standard)
- FL5 = 3/8" flex with three #18, one ground and two connectors
- FL6 = 1/2" flex with three #18, one ground and two connectors



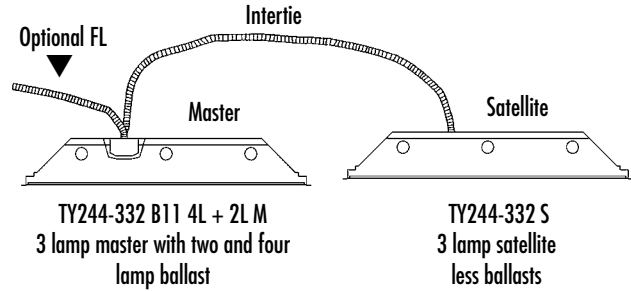
Example: Flex with two connectors TEP-244-332-B11-FL4 (or FL5 for inboard/outboard switching).

Master/Satellite (Suffix M or S)

The Master/Satellite option offers energy saving by switches or controls allowing center lamp and outside lamps to be individually operated with fewer ballasts and connections.

Example: For three-lamp troffers, order a four-lamp and two-lamp ballast in master unit, prewired at the factory and ready to snap into position on access plate with 11' of intertie to satellite fixture. Both master and satellite units are prewired with snap-in connectors.

The four-lamp ballast drives outboard lamps and the two-lamp ballast drives inboard lamps. Standard intertie length is 11', other lengths available. Master unit available with optional flex and lead.



Plug-In Connectors

Specify optional modular wiring for your system:

Ballast wired to Black:

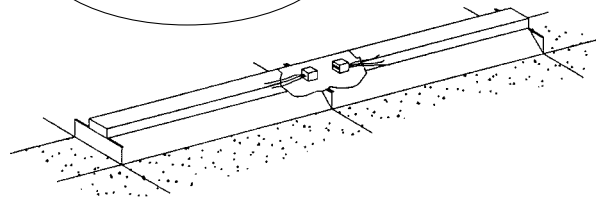
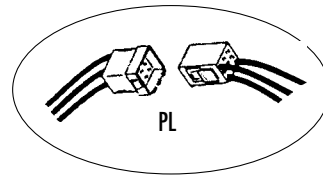
- PL1 = one circuit, two wires
- PL2 = two circuits, three wires
- PL3 BK = three circuits, four wires

Ballast wired to Red:

- PL2 RD = two circuits, three wires
- PL3 RD = three circuits, four wires

Ballast wired to Blue:

- PL3 BL = three circuits, four wires

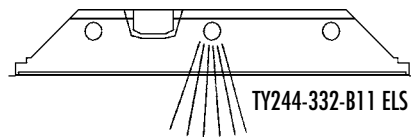


Modular Wiring

Factory will modify standard products to accept customer-supplied systems. Contact factory for layouts, wiring recommendations, and costs.

Emergency Lighting (Suffix ELS)

Available on a variety of fixtures, will upgrade the selected fixture to respond to power failure with one lamp operational for 90 minutes. UL listed, including indicator light and test button. Bodine emergency packs may also be specified.

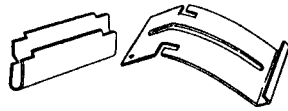


ELS (Emergency Lighting Systems)

- ELS1 = low lumens
- ELS2 = medium lumens
- ELS3 = high lumens

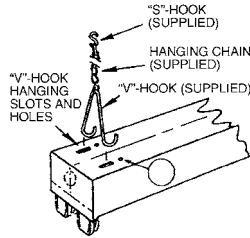
Contact factory for ballast and lumen specifications.

AC – Aligner Clips. Hold reflectors in alignment.

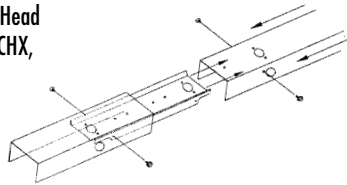


CACC – Suspension kit includes white cord, white canopies, and 1/16" aircraft cable. Individual mounting only. Standard length is 48".

CA (Chain Hanger Assembly) – Hanging Kit. Includes two 18" chains, two "V" hooks, and two "S" hooks for a total drop of 24". Additional chain length available.

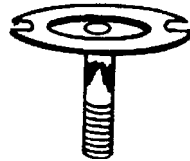


CHJ – Connector Joiner and Hex Head Screws. Connect long rows of CH, CHX, IE or IF 4 1/2" housings.



CP3 – Cord and Plug. Six-foot 18-3 SJ cord and plug wired with strain relief to fixture. Black standard; W=White. Specify color and cord attachment point, e.g. end or side.

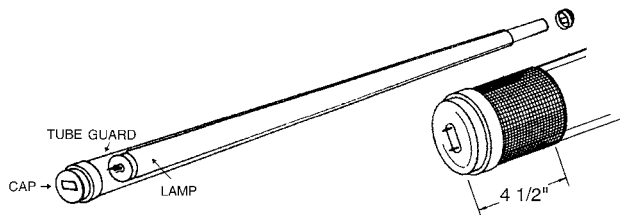
CS – Ceiling Spacer. Maintains 2 1/2" space between top of fixture and ceiling. Hollow stem. Use with any surface fixture.



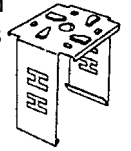
FB or SB – Fast-Blow or Slow-Blow Fusing. One required per ballast.

OLS – Clear polycarbonate lamp guard. Contains glass from shattered lamps. Recommended for efficient cold weather operation. May be required in food service areas. Order by length and lamp type:

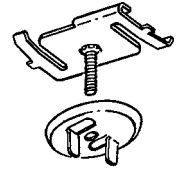
- OLS32** = 48" T8 lamp.
- OLS40** = 48" T12 lamp.



SN – Snapper Bracket. Snaps onto T-bar to hold fixture and maintain 1 3/4" space from ceiling on HO body or 2 5/8" on slimline. Can also be used on standard ceilings with proper support. Use with CH, CHX, IE, IF. Tabs adjust to high output housing.



TBH – T-Bar Grid Mounting Clip. Twists and clips onto grid and provides thread to mount housing, which is supported by turn fastener. Available bulk or packaged in sets of two. Two clips will support fixtures up to 48" x 15" wide.



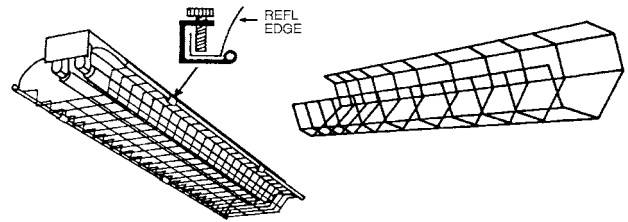
Wireguards – 14 Gauge Security Cage.

For Channels:

- WG(x)20** = 24" for CH. (Specify # Lamps)
- WG(x)30** = 36" for CH. (Specify # Lamps)
- WG(x)40** = 48" for CH. (Specify # Lamps) use 2 for 96" length.

For Industrials:

- LG48** = 48" hinged wire lamp guard for IE Industrial (use 2 for 96" length).
- LGIF48** = 48" hinged wire lamp guard for IF Industrial.



For high bay fluorescent fixtures:

- RWG(x)** = Heavy Duty Wire Guard
- REF(x)** = acrylic Lens **WREF(x)** = acrylic Lens And Heavy Duty Wire Guard Combo

For above, please specify # of lamps (4, 6, or 8)



Fluorescent LIGHT COMMERCIAL & RESIDENTIAL

Combining form with the function of advanced fluorescent technology, Simkar delivers a compelling array of energy efficient lighting that offers stylish, yet practical lighting solutions for every room in your home. Check out our innovative lighting designs, latest decorative patterns, and customizable finishes that satisfy every design preference.

Partnering with the ENERGY STAR program, Simkar offers a unique selection of energy-efficient lighting products that add drama – or something more demure – to beautify your home.





- Crown profile matches cabinetry and ceiling molding.
- Lift and shift diffuser for easy, tool-free cleaning and relamping.
- Shallow, gasketed, flush mount frame.
- Electronic instant start T8 ballast.
- U.L. listed.

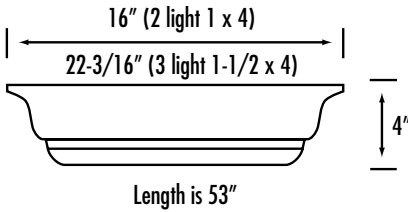


Our "Tight to the Ceiling" Crowns are designed to match the popular crown moldings of ceilings and kitchen cabinetry.



Crown Profile

Dimensions

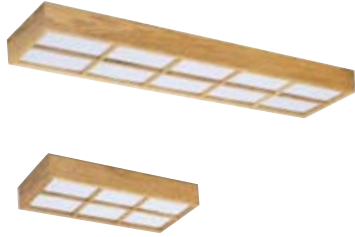


Crown Ordering Information

Series	Finish	Lens Size	Lamps
CRWN	W = White finish	124 = 1 x 4	232 = (2) 32W 48" T8
	O = Oak finish	184 = 1-1/2 x 4	332 = (3) 32W 48" T8

Ballast	Switching	Voltage
B11 = Electronic T8	FOR 3 LAMP UNITS Blank = dual ballasts 3L = (1) 3-lamp ballast	UNV = 120-277V
B11 RES = Residential Electronic T8		120 = 120V
B22 = LPF T8/T12*		277 = 277V**
	FOR 2 LAMP UNITS Blank = single ballast 2/1L = (2) 1-lamp ballasts	

*Dual ballasts required for 3 lamp models
**B11 only

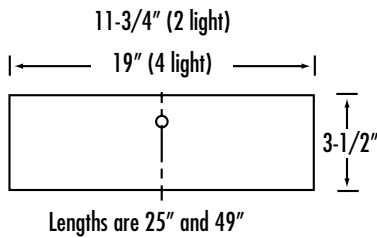


The Oak Grid fixture combines European style with fluorescent efficiency. The solid oak housing and grids allows the fixture to be an attractive addition to many decors. The 2' or 4' versions are suited to high end kitchens, hallways and offices.

- Solid oak frame with integral lattice grid.
- Hand rubbed, medium oak stain.
- Low profile for seamless ceiling line.
- Translucent, milk white acrylic diffuser.
- Flush mount frame.
- U.L. listed.



Dimensions



Oak Grid Ordering Information

Series	Lamps	Ballast	Switching	Voltage
WGCO	217 = (2) 17W 24" T8	B11 = Electronic T8	FOR 4 LAMP UNITS Blank = dual ballasts 4L = (1) 4-lamp ballast	UNV = 120-277V 120 = 120V 277 = 277V**
	232 = (2) 32W 48" T8	B11 RES = Residential Electronic T8		
	417 = (4) 17W 24" T8	B22* = LPF T8/T12	FOR 2 LAMP UNITS Blank = single ballast 2/1L = (2) 1-lamp ballasts	
	432 = (4) 32W 48" T8			

*Dual ballasts required for 4 lamp models

**B11 Only



WCFO 432



WCFO 232



WCFO 217



Add the warmth of wood with the efficiency of fluorescent lighting with the Oak Drop Dish fixture. The drop design combines with the Oak finish in 2' and 4' lengths to provide a low profile solution that are perfect for kitchens, hallways, foyers, offices and any application where stylish low profile illumination is needed.

- Solid oak frame.
- Hand rubbed, medium oak stain.
- Low profile for seamless ceiling line.
- Translucent, milk white acrylic, drop dish diffuser.
- Flush mount frame.
- U.L. listed.

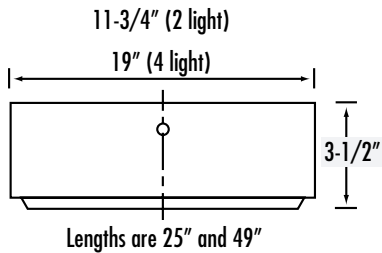
Oak Drop Dish Ordering Information

Series	Lamps	Ballast	Switching	Voltage
WCFO	217 = (2) 17W 24" T8	B11 = Electronic T8	FOR 4 LAMP UNITS Blank = dual ballasts 4L = (1) 4-lamp ballast	UNV = 120-277V 120 = 120V 277 = 277V**
	232 = (2) 32W 48" T8	B11 RES = Residential Electronic T8		
	417 = (4) 17W 24" T8	B22* = LPF T8/T12	FOR 2 LAMP UNITS Blank = single ballast 2/1L = (2) 1-lamp ballasts	
	432 = (4) 32W 48" T8			

*Dual ballasts required for 4 lamp models

**B11 Only

Dimensions





- Shallow 3-1/4" depth is ideal for low ceilings.
- V-shaped acrylic diffuser distributes light evenly and reduces glare.
- Lift and shift lens hinges from either side for easy, tool-free cleaning and relamping.
- Solid oak ends (WRCO) add a decorative touch.
- Die-formed, heavy gauge, steel housing.
- Flush, ceiling mount – stem, individual or continuous row.
- U.L. listed.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.



Available with a glare-reducing diffuser, Wraparounds can be individually or continuous-row mounted. Non-yellowing acrylic prismatic lens keeps the light bright.



Commercial Wraparounds Ordering Information

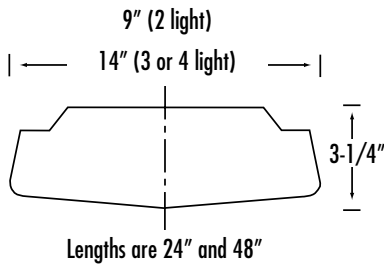
Series	Lamps	Ballast	Switching	Voltage
SY920	217 = (2) 17W 24" T8 232 = (2) 32W 48" T8 332 = (3) 32W 48" T8 417 = (4) 17W 24" T8 432 = (4) 32W 48" T8	B11 = Electronic T8	FOR 3 AND 4 LAMP UNITS Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast	UNV = 120-277V 120 = 120V 277 = 277V

Residential Wraparounds Ordering Information

Series	Lamps	Ballast	Voltage
WRW = White ends WRCO = Oak ends	217 = (2) 17W 24" T8 24 = (2) 34/40W 48" T12 417 = (4) 17W 24" T8 44* = (4) 34/40W 48" T12	B22 = LPF T8/T12 120V	120 = 120V

*Dual ballasts required

Dimensions





With our Low Profile Cloud, you see the light, not the fixture. These all-purpose fixtures hug close to the ceiling, providing soft diffused light.



Low profile clouds provide the same advantages of Full Size Clouds with a shallower housing and diffuser. Low Profile Clouds are available in 4' lengths and are a great solution where mounting restrictions or regulations call for a low profile fixture.

- Only 2/3 the depth of standard clouds.
- Soft, contoured milk white acrylic diffuser for a flawless look.
- Fully luminous fixture for maximum brightness.
- Lift and shift diffuser hinges from either side for easy, tool-free cleaning and relamping.
- Offset, ceiling mount provides subtle uplight.
- Electronic instant start T8 ballast.
- U.L. listed.

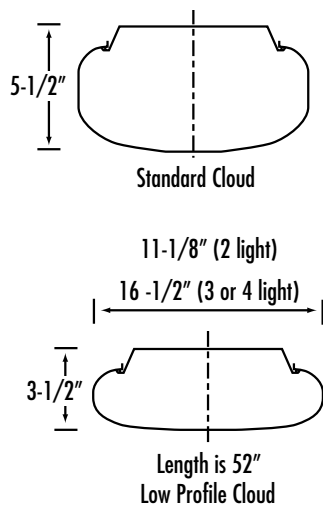
Low Profile Cloud Ordering Information

Series	Lamps	Ballast	Switching	Voltage
SMCLP	232 = (2) 32W 48" T8	B11 = Electronic T8	<i>For 3 and 4 lamp units</i>	UNV = 120-277V 120 = 120V 277 = 277V**
	332 = (3) 32W 48" T8	B11 RES = Residential Electronic T8	Blank = dual ballasts	
	432 = (4) 32W 48" T8	B22* = LPF T8/T12 120V	3L = (1) 3-lamp ballast	
			4L = (1) 4-lamp ballast	
			<i>For 2 lamp units</i>	
			Blank = single ballast	
			2/1L = (2) 1-lamp ballasts	

*Dual ballasts required for 3 and 4 lamp models

**B11 Only

Dimensions





SMC 432



SMC 232



SMC 417



Enjoy the efficiency and brightness of fluorescent lighting in a classic soft look. Full size clouds are available in 2' and 4' lengths with 2,3, or 4 lamps and are perfect for kitchens, hallways, foyers and closets.

- Soft, contoured milk white acrylic diffuser for a flawless look.
- Fully luminous fixture for maximum brightness.
- Lift and shift diffuser hinges from either side for easy, tool-free cleaning and relamping.
- Offset, ceiling mount provides subtle uplight.
- U.L. listed.

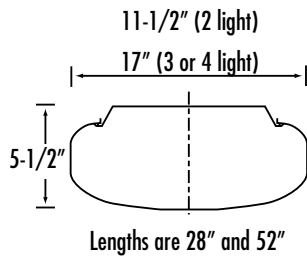
SMC Ordering Information

Series	# Lamps	Lamp Type	Ballast	Switching	Voltage
SMC	2	17 = 17W 24" T8	B11 = Electronic T8	<i>For 3 and 4 lamp units</i>	UNV = 120-277V 120 = 120V 277 = 277V**
	3	32 = 32W 48" T8	B11 RES = Residential Electronic T8	Blank = dual ballasts	
	4		B22* = LPF T8/T12 120V	3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast	
				<i>For 2 lamp units</i>	
				Blank = single ballast	
				2/1L = (2) 1-lamp ballasts	

*Dual ballasts required for 3 and 4 lamp models

**B11 only

Dimensions





- Contoured, translucent, milk white diffuser for a flawless look.
- Fully luminous fixture for maximum illumination.
- Brass set screws (CPO, CPL) or turn latches (SQC) for easy access.
- Flush, wall or ceiling mount.
- U.L. listed.

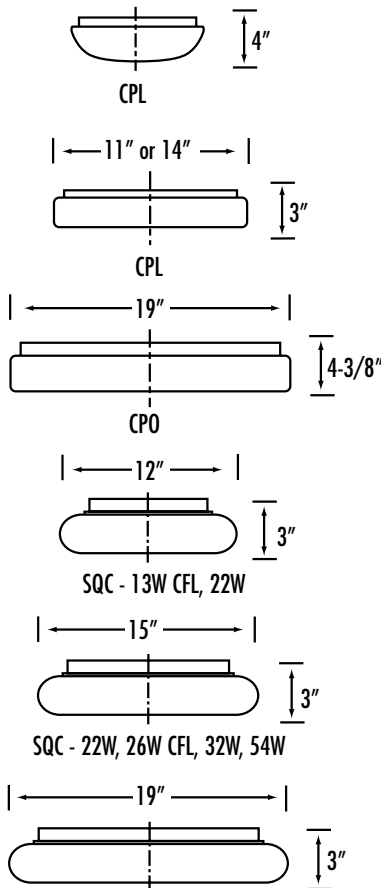
Electrical

Fully wired for 120V, 60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

The economical choice to illuminate smaller areas like foyers, hallways and closets.



Dimensions



Compact Clouds (drum and round) Ordering Information

Series	Lamps / Housing diameter	Voltage	Option
CPL = Drum	18-11 = 11" (2) 9W CFL	120 = 120V	L1 = Lamps Included
CPO = Round	22-11 = 11" 22W Circline		
	22-14 = 14" 22W Circline		
	26-14 = 14" (2) 13W CFL		
	26-19 = 19" (2) 13W CFL		
	32 = 32W Circline (14" only)		
	54 = 22W & 32W Circlines (14" only)		
	72 = 32W & 40W Circlines (19" only)		

Compact Clouds (square) Ordering Information

Series	Lamps / Housing size	Voltage	Option
SQC	22-12 = 12" (1) 22W Circline	120 = 120V	L1 = Lamps Included
	22-15 = 15" (1) 22W Circline		
	26-15 = 15" (2) 13W CFL		
	32-15 = 15" (1) 32W Circline		
	54-15 = 15" 22W & 32W Circlines		
	54-19 = 19" 22W & 32W Circlines		
	72-19 = 19" 32W & 40W Circlines		



- Economical lighting – great for utility areas.
- Choice of chrome or white housing.
- Flush, wall or ceiling mount.
- U.L. listed.

Electrical

Fully wired for UNV 120V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

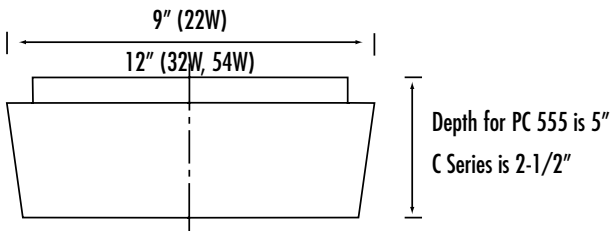


Circline Basics Ordering Information

Series	Lamps	Voltage	Housing	Option
C = Bare Bulb	22 = (1) 22W Circline	120 = 120V	Blank for Chrome W = White	L1 = Lamps Included
PC 555* = Shade	32 = (1) 32W Circline			
	54 = 22W & 32W Circlines			

*White housing only

Dimensions





- Choice of six decorative end caps to match décor.
- Lift and shift diffuser hinges from either side for easy, tool-free cleaning and relamping.
- Single-piece diffuser and end cap construction eliminates light leaks.
- Offset, ceiling mount provides subtle uplight.
- Electronic instant start T8 ballast.
- Companion sconce available.
- U.L. listed.



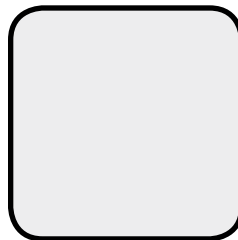
IV-Ivory Marble



AL-Alabaster



WM-White Marble



BW-Bone White

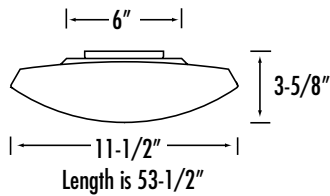


PM-Peach Marble



VG-Verde Green

Dimensions



SAC Ordering Information

Series	End Finish	Lamps	Ballast
SAC	AL = Alabaster	232 = (2) 32W 48" T8	B11 = Electronic T8
	BW = Bone White	332 = (3) 32W 48" T8	B11 RES = Residential Electronic T8
	IV = Ivory Marble		B22* = LPF T8/T12 120V
	PM = Peach Marble		
	WM = White Marble		
	VG = Verde Green		

*Dual ballasts required for 3 lamp model

Switching	Voltage
FOR 3 LAMP UNITS	UNV = 120-277V
Blank = dual ballasts	120 = 120V
3L = (1) 3-lamp ballast	277 = 277V**
FOR 2 LAMP UNITS	
Blank = single ballast	
2/1L = (2) 1-lamp ballasts	

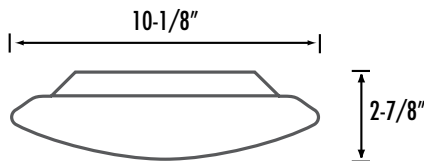
**B11 Only



SLP Low Profile combines a sleek low-profile design, smooth white acrylic lens and die-cast white or brushed metal ends to create a high-tech designer appearance. The unit can be surface mounted or pendant hung with 1/16" aircraft cable, as shown. The **SLP** is ideal for office, residential and light commercial space.



Dimensions



Length is 25" (SLPM 217)
Length is 49" (SLPM 232)

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Ends are hand finished to a stainless steel look. Inside is grooved to accept acrylic lens and avoid light loss.

Shielding

Smooth milk white formed acrylic.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A electronic ballast as standard unless otherwise specified. UL listed.

Mounting

Flush mounted or pendant hung with CACC Suspension Kit. CACC Suspension Kit includes white cord, white canopies and 1/16" aircraft cable. Individual mounting only.

SLP Series Ordering Information

Series	Ends	Lamps	Ballast	Voltage
SLP	M = Brushed metal W = White	217 = (2) 17W 24" T8 232 = (2) 32W 48" T8	B11 = Electronic T8 B22 = LPF T8/T12	UNV = 120-277V 120 = 120V 277 = 277V*

*B11 only

Accessories

CACC(xx)** = Cable Kit, includes 2 cables, mounting hardware, white power cord and canopies; specify length in inches (48 or 72)



AVAL Series
(ADA Compliant)



AVSHM Series
Maple finish

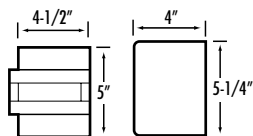


Fixtures are available in a variety of styles and finishes that complement cabinetry, tiling and countertops.



- Translucent faux alabaster or real wood accented fascias.
- Classic shaker design available in 3 popular wood tones.
- Fully enclosed unit for easy cleaning.
- Decorative rounded brass set screws for quick access.
- Flush horizontal wall mount.
- Electronic instant start T8 ballast.
- U.L. listed.

Dimensions



AVS(xx)

AVAC

Lengths are 31", 43", 56"

Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided on back.

Diffuser

The AV series include translucent faux alabaster acrylic fascias or white acrylic lenses with real wood, Shaker style fascias to create both up and down light components. Diffusers are attached to the housing with brass set screws for quick access.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Flush horizontal wall mount.



Mahogany Finish



Cherry Finish

The AV series bath bars are a ruggedly constructed, versatile, and attractive solution to many applications. Whether in a bath, hallway, or over a bed, the sleek and stylish designs complement a wide variety of decors. With ADA compliant models

available as well as a pull-chain options, the AV series is perfect for use in homes, healthcare, and senior living facilities.

AV Ordering Information

Series	Fascia	Lamps	Ballast	Voltage	Option
AV	AL = Alabaster SHM = Maple SHC = Cherry SHMH = Mahogany	217 = (2) 17W 24" T8 225 = (2) 25W 36" T8 232 = (2) 32W 48" T8	B11 = Electronic T8	UNV = 120-277V 120 = 120V 277 = 277V	PSW = Pull Switch for on/off operation

For additional switching and wiring options, see Architectural Health Care unit on page 76.

ADA Compliant



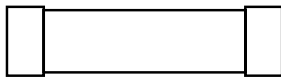
WECN and **WECW** End Cap Bath Bars are versatile, stylish fixtures that can be used in many applications to complete a room. Range of colors, textures, trim options, and sizes to meet all decorating schemes and lighting requirements. Superior fit and finish – no exposed metal work or open joints to trap dust. Energy-efficient T8 lamps with improved color rendering bring out natural colors in fabrics, wall treatments, and skin tones. Quick installation for ceiling or wall applications.



- 8 popular end cap colors and 3 diffuser styles.
- Fully enclosed unit with no exposed hardware for easy cleaning.
- Spring clip attachment for quick access.
- Flush, wall or ceiling mount.
- Electronic T8 instant start ballast.
- ADA compliant.
- Companion sconce available.
- U.L. listed damp location.

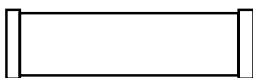
Dimensions

← Nom. 2', 3' or 4' →



WECW 1-1/2" End Caps

← Nom. 2', 3' or 4' →



WECW 1/2" End Caps

4-3/4"



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided on back.

Diffuser

Consists of a UV acrylic clear ribbed, white ribbed, or smooth white lens, mated to one of a variety of end caps. The end caps are available in wide and narrow versions in a range of colors and textures. Diffuser is secured to housing with spring clips. ADA Compliant.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

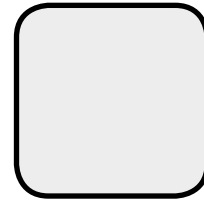
Mounting

Surface mount wall or ceiling, vertical or horizontal.

Available Colors and Textures



AL-Alabaster



BW-Bone White



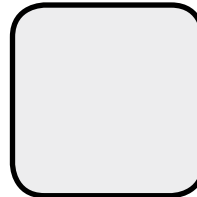
WM-White Marble



IV-Ivory Marble



PM-Peach Marble



SW-Solid White



TO-Tortoise



VG-Verde Green

WEC Ordering Information

Series	Size	Color	Diffuser
WECN = 1/2" end cap	2 = 25.5"	AL = Alabaster	CR = Clear ribbed
WECW = 1 1/2" end cap	3 = 37.5"	BW = Bone White	WR = White ribbed
	4 = 49.5"	IV = Ivory Marble	WS = Smooth white
		PM = Peach Marble	
		SW = Solid White	
		TO = Tortoise	
		VG = Verde Green	
		WM = White Marble	

Trim	Lamps	Ballast	Voltage
B = Brass (WECW only)	217 = (2) 17W 24" T8	B11 = Electronic T8	UNV = 120-277V
C = Chrome (WECW only)	225 = (2) 25W 36" T8	B22 = LPF T8/T12 120V	120 = 120V
N = None	232 = (2) 32W 48" T8		



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat.

Shielding

Frameless white acrylic diffuser with D.R. for added durability and even efficient illumination. SMCW model uses brass caps to hold diffuser in place.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Wall mounting.

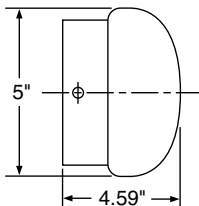


- Soft, contoured milk white acrylic diffuser for a flawless look.
- Fully enclosed unit for easy cleaning.
- Decorative, rounded brass acorn nut for quick access.
- Flush, wall mount.
- Companion ceiling units available (see page 93).

SMCW Ordering Information

Series	Lamps	Ballast	Voltage
SMCW	217 = (2) 17W 24" T8 225 = (2) 25W 36" T8 232 = (2) 32W 48" T8	B11 = Electronic T8 B22 = LPF T8/T12 120V	UNV = 120-277V 120 = 120V

Dimensions



SMCW fixtures are available in 27", 39" and 51" models.



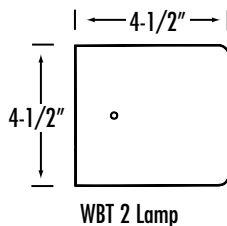
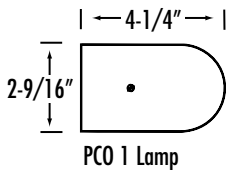
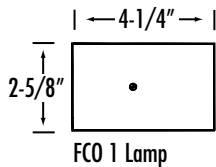
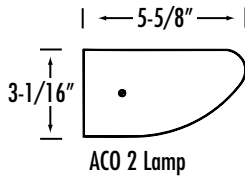
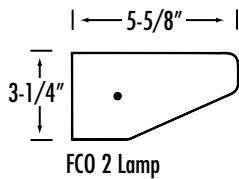
ACO 230



FCO 230



Dimensions



ACO, FCO (2 Lamp), PCO and WBT lengths are 18-1/4", 24-1/4", 36-1/4" and 48-1/4". FCO 1 lamp lengths are 18-3/8", 24-3/8" and 48-3/8".

- Choice of chrome or white ends.
- Wraparound, translucent, milk white acrylic diffuser.
- Fully enclosed unit for easy cleaning.
- Grounded convenience outlet and push switch included. (120V only)
- Flush, wall mount.
- U.L. listed damp location.

Wall Brackets Ordering Information

Series	# Lamps	Lamp Type	Ends
ACO	1	15 = 15W 18" T8	Leave blank for chrome
FCO	2	17 = 17W 12" T8	WE = White ends
PCO*		20 = 20W 24" T12	
WBT		25 = 25W 36" T8	
		30 = 30W 36" T12	
		32 = 32W 48" T8	
		40 = 34/40W 48" T12	

*PCO fixtures are available with 1-lamp only

Ballast	Voltage	Options
B11 = Electronic T8	UNV = 120-277V*	Push Switch and Outlet (Standard)
B22 = LPF T8/T12 120V	120 = 120V	CO = Convenience Outlet only
		SW = Switch only
		LA = Less switch and outlet

*UNV only available when unit is less outlet and switch

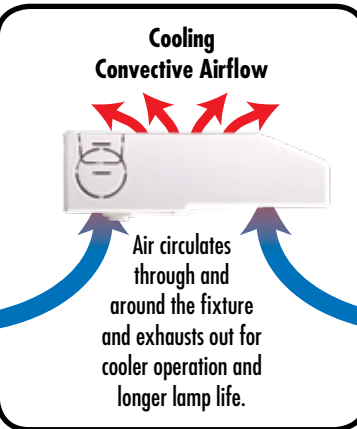
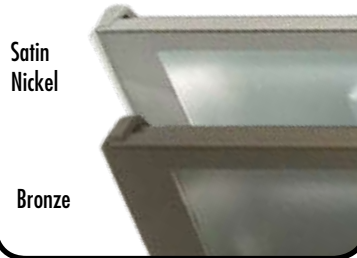


The line voltage, xenon and halogen task lights provide crisp, bright white light that is fully dimmable. With increased luminous intensity and concentrated, downward focused beam spread, xenon and halogen task lights dramatically illuminate counter tops, workstations and showcases. XLINE units are available in darker, plated finishes to reduce product image reflections on dark, shiny surfaces.

XLINE & HLINE Features

- Produces fully dimmable, bright white light.
- Includes 120V Halogen or longer life Xenon lamp(s).
- Low profile, contoured housing creates a discreetly hidden light source.
- Frosted glass lens for even light distribution.
- Thermally efficient, self-cooling housing extends lamp life.
- Hinged lens held positively by spring clips for tool-less relamping.
- Three-way switch - change from task to mood lighting.
- Three finishes; post painted white and plated bronze and satin nickel (XLINE only).
- U.L. listed.
- Xenon and halogen tasks create crisp bright white light for dramatic illumination.
- Xenon and halogen tasks can be dimmed to set the mood
- Xenon and halogen tasks produce directional, color correct illumination that makes merchandise sparkle.

Available In Plated Finishes

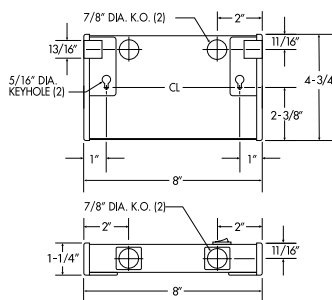
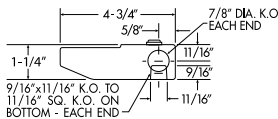


Lamps Included:

Includes 120V halogen or longer lasting xenon lamp(s).



Dimensions



ADDITIONAL LENGTHS ARE 16", 24" AND 33"

Xenon & Halogen XLINE & HLINE Series Ordering Information

Catalog No.	Lamps*	Finish	Dimensions			Input Wattage
			H	L	W	
XLINE1WH120V	(1)-20W xenon	White	1-1/4"	8"	4-3/4"	20
XLINE1BZ120V	(1)-20W xenon	Bronze	1-1/4"	8"	4-3/4"	20
XLINE1SN120V	(1)-20W xenon	Satin Nickel	1-1/4"	8"	4-3/4"	20
XLINE2WH120V	(2)-20W xenon	White	1-1/4"	16"	4-3/4"	40
XLINE2BZ120V	(2)-20W xenon	Bronze	1-1/4"	16"	4-3/4"	40
XLINE2SN120V	(2)-20W xenon	Satin Nickel	1-1/4"	16"	4-3/4"	40
XLINE3WH120V	(3)-20W xenon	White	1-1/4"	24"	4-3/4"	60
XLINE3BZ120V	(3)-20W xenon	Bronze	1-1/4"	24"	4-3/4"	60
XLINE3SN120V	(3)-20W xenon	Satin Nickel	1-1/4"	24"	4-3/4"	60
XLINE4WH120V	(4)-20W xenon	White	1-1/4"	33"	4-3/4"	80
XLINE4BZ120V	(4)-20W xenon	Bronze	1-1/4"	33"	4-3/4"	80
XLINE4SN120V	(4)-20W xenon	Satin Nickel	1-1/4"	33"	4-3/4"	80
HLINE1WH120V	(1)-35W halogen	White	1-1/4"	8"	4-3/4"	35
HLINE2WH120V	(2)-35W halogen	White	1-1/4"	16"	4-3/4"	70
HLINE3WH120V	(3)-35W halogen	White	1-1/4"	24"	4-3/4"	105
HLINE4WH120V	(4)-35W halogen	White	1-1/4"	33"	4-3/4"	140

* Lamp(s) Included.

XL20 = 20W, 120V Xenon replacement lamp.

HL35 = 35W, 120V Halogen replacement lamp.



Our multi-purpose Strip Lights are offered in a variety of sizes and lamp configurations for a custom lighting design. Patented, laborsaving, flip-up sockets simplify installation.



CH240TT



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat with removable wireway access panel. Ample knockouts provided on side, back and ends. Shipped fully wired and assembled, including socket saddle. Simply flip up socket bar and attach wireway cover with turn fastener provided. Machine installed shunts eliminate loose socket bar connections on electronic strips.

Electrical

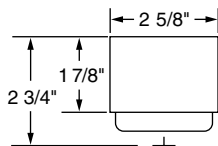
Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

- Patented, flip-up sockets save installation time.
- Fully wired and assembled.
- Combination end plate/joiner easily connect units for continuous row or wire through.
- Die-formed heavy gauge, steel housing.
- Surface or pendant mount; individual, tandem or continuous rows.
- U.L. listed, damp location.

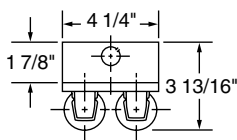
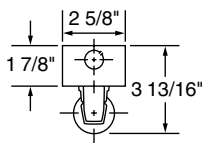


Flip up sockets

Dimensions



CHTT



CH

CH Strip Lights Ordering Information

Series	# Lamps	Lamp Type	Ballast	Voltage
CH	1	14 = 14W 15" T12	B11 = Electronic T8	UNV = 120-277V
	2	15 = 15W 18" T8/T12	B5 = Electronic T12	120 = 120V
	21 = Tandem, two lamps	17 = 17W 24" T8	B14 = Electronic TT	277 = 277V
	22 = Tandem, four lamps	20 = 20W 24" T12	B22 = LPF T8/T12 120V	
		25 = 25W 36" T8		
		30 = 30W 36" T12		
		32 = 32W 48" T8		
		40 = 34/40W 48" T12		
		40TT = 40W 22" TT		

See page 62 for commercial options and accessories



Slimline and High Output Channels are ideal for maximum illumination. Available in 4', 6', and 8' individual lengths as well as continuous row mounting.

Housing

High-gloss, baked white enamel finish on steel housing with removable wireway access panel. Fixture is shipped fully wired and assembled. CHX models have patented (#4,422,132) flip-up socket bar and turn fastener for attaching wireway cover.

Electrical

Fully wired for 120V, 60Hz operation with thermally protected, automatic resetting, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A electronic ballast, except slimline and high-output models. UL listed, damp location.

- Patented, flip-up sockets save installation time.
- Fully wired and assembled.
- Combination end plate/joiner easily connect units for continuous row or wire through.
- Die-formed heavy gauge, steel housing.
- Surface or pendant mount; individual, tandem or continuous rows.
- U.L. listed, damp location.

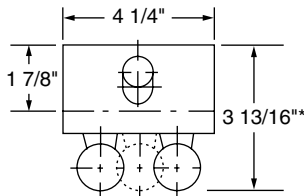
Mounting

Combination end plate/joiner connects units for continuous row or wire through. Surface or pendant mount, high output model must be suspended at least 6" from ceiling for cooler operation.



Flip up sockets

Dimensions



*HO and VHO are 4 5/8" deep

CHX Slimline And High Output Channel Ordering Information

Series	# Lamps	Lamps	Ballast	Voltage
CHX	1	48 = 48"	B5 = Electronic T12	UNV = 120-277V
	2	72 = 72"	HOB5 = High Output Electronic T12	120 = 120V
		96 = 96"	B11 = Electronic T8	277 = 277V
			HOB11 = High Output Electronic T8	
			HO = High Output	



TY 244



FY 124

- Shallow 3-3/4" depth fits suspended or plaster ceilings.
- Metal light traps prevent light leak.
- Swing action cam latches for easy, tool-free access.
- Integral door hinges allow door to hinge or latch from either side.
- Built in T-Bar clips securely hold fixture to T-Bar grid.
- Die-formed, heavy gauge, steel housing.
- U.L. listed.



Troffers are ideal for grid, drywall and plaster ceilings. Choose from a wide selection of ballast, lamp configurations and lenses.



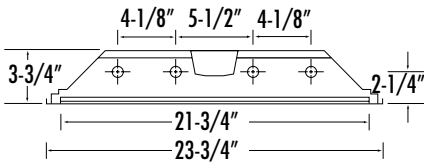
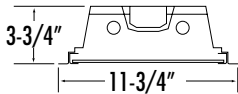
Troffers Ordering Information

Series	Size	Lamps
TY = Lay-In	124 = 1 x 4	232U = (2) 32W U6" T8**
FY = Flange	242 = 2 x 2	232 = (2) 32W 48" T8
	244 = 2 x 4	240 = (2) 34 or 40W 48" T12
		332 = (3) 32W 48" T8
		340 = (3) 34 or 40W 48" T12
		417 = (4) 17W 24" T8
		432 = (4) 32W 48" T8
		440 = (4) 34 or 40W 48" T12

** For 1-5/8", please specify

Options	Ballast	Switching	Voltage
ELS1 = Emergency Lighting (low lumens)	B11 = Electronic T8 B22 = LPF T8/T12 120V	For 3 and 4 lamp units Blank = dual ballasts	UNV = 120-277V 120 = 120V 277 = 277V
ELS2 = Emergency Lighting (medium lumens)		3L = (1) 3-lamp ballast	
ELS3 = Emergency Lighting (high lumens)		4L = (1) 4-lamp ballast	

Dimensions



Options

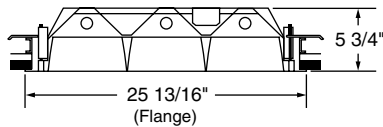
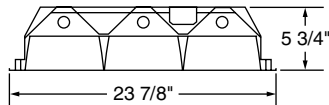
- L = Lamps Installed (Specify Lamps) (U-lamp and TT lamps not installed)
- FL4 = 3/8", 6' flex with two #18, one ground and two connectors
- FL5 = 3/8", 6' flex with three #18, one ground and two connectors



TEP Deep Cell Parabolics are attractive high-efficiency fixtures that produce uniform low brightness in the 60°- 90° zone.



Dimensions



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Full black reveal and hinged louver for easy relamping. Access plate provided with 2 KO's and ground screw.

Shielding

Low iridescence, anodized, semi-specular aluminum parabolic, nominal 3" deep-cell louver held securely by steel latches. "T" hinges allow access from either side.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed.

Mounting

Optional EC515 Earthquake Clip for lay-in TEP grid ceilings.

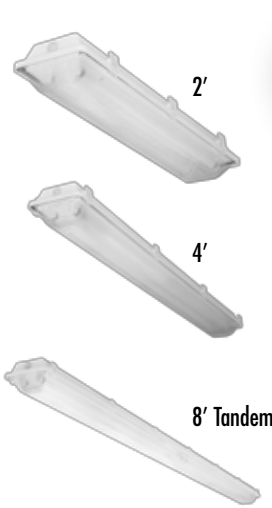
TEP Series Ordering Information

Series	Size	# Lamps	Lamp type	Cell Configuration
TEP	124 = 1 x 4	2	32U = 32W U6" T8*	9C = 2x2 (3 rows of 3)
	242 = 2 x 2	3	32 = 32W T8	18C = 2x4 (3 rows of 6)
	244 = 2 x 4	4		32C = 2x4 (4 rows of 8)

* For 1-5/8", please specify

Options	Ballast	Voltage
ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8	UNV = 120-277V 120 = 120V 277 = 277V

Options
L = Lamps Installed (Specify Lamps) (U-lamps not installed) FL4 = 3/8", 6' flex with two #18, one ground and two connectors FL5 = 3/8", 6' flex with three #18, one ground and two connectors



EN2

Ideal for demanding environments where reliability and performance is paramount.

Simkar is proud to announce a family of demanding environment T8 luminaires that will stand up to the forces of wind, water, temperature extremes, dust, salt, and abuse.

The EN2 series is an indoor/outdoor, corrosion proof, enclosed and gasketed fixture that does it all.

Simkar's weatherproof EN2 Series luminaires are a low profile design and comes in 2', 4', and 8' lengths. The 2' and 4' units come in 4" and 6.8" widths and the 8" unit is 6.8" wide.

You have choices of 1 or 2 lamp versions to meet your lighting needs.

The housings are made of custom reinforced, thermal-set polyester that is corrosion resistant and will withstand extreme abuse and neglect.

The horizontally ribbed diffuser lenses were engineered for superior strength, ease of cleaning, and optical uniformity. These tough lenses are available in injection molded, clear, UV stabilized

polycarbonate (2' and 4' units) or 100% certified High Impact acrylic versions (4' and 8' units).

The sealing flanges of the lenses were designed to work in conjunction with our custom formulated foam-in-place, non-reticulated polyurethane gasket. This gasket is a seamless gasket that chemically attaches to the housing and is robotically applied to ensure consistency, accuracy, and reliability.

Our new, innovative latching and mounting hardware make installation and maintenance a breeze.



Features & Benefits

Corrosion proof, UL 5VA (f1) flame resistant, reinforced thermal set polyester housing

Simple, non-intrusive, external mounting hardware system

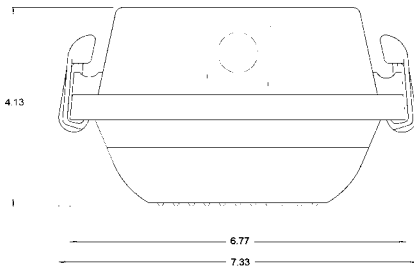
Securely attached, cam latching system that are tamper proof ready

Rugged, impact resistant lenses: UV stabilized polycarbonate or 100% certified High Impact acrylic

Available in 2', 4' and 8' lengths

Dimensions

2 and 3 lamp models



Housing

Housing to be 1-piece, custom reinforced thermal-set polyester that is corrosion proof and will withstand extreme abuse and neglect. Housing material to be UL 94, 5VA and UL 746C rated f1. Gasket to be a seamless, custom formulated foam-in-place, non-reticulated polyurethane gasket, chemically attached to the housing and robotically applied to ensure consistency, accuracy, and reliability.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting/Latching

Mounting to be surface, ceiling, or wall capable. Optional stainless steel Mounting Brackets (4' and 8' units only) or Swivel Mounting Brackets will eliminate drilling into the housing. Safety strap included. Lens latches to be tool-free UV stabilized polycarbonate, over-center design. Optional Stainless Steel Latches are available.

EN2 Ordering Information

Series Code	Size	# Lamps	Lamp Type
EN2	2 = 2'	1 = 1 lamp	17T8 = 17 watt T8, 2' unit 32T8 = 32 watt T8, 4' unit or 8' Tandem
	4 = 4'	2 = 2 lamps	
	8 = 8'	2T = 2 lamps Tandem	
		4T = 4 lamps Tandem	

Ballast	Voltage
E = Electronic	U1 = Universal 120V - 277V



Perfect for garages and workshops, our highly versatile Shop Lights are available in All Temperature models to give life to any work area.

SL2 Residential Shop Light

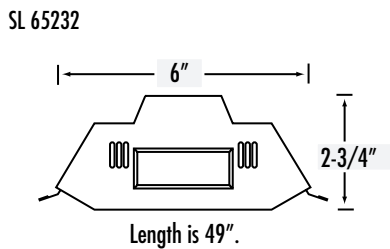
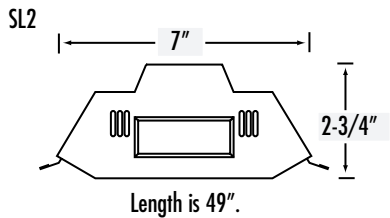
- Magnetic, rapid start ballast.
- 5' cord and plug.
- Hanging hardware included.
- U.L. listed.

SL 65232 All Temperature Shop Light

- Works down to 0° F.
- Electronic T8 ballast starts the light instantly.
- Locking sockets hold bulbs securely.
- 5' cord and plug.
- On/off pull switch and hanging hardware included.
- U.L. listed.



Dimensions





SIMKAR EXIT AND EMERGENCY



EXIT AND EMERGENCY



NFPA 101 Life Safety Code

All of Simkar's Exit and Emergency products pass UL 924 as well as NFPA 101 Life Safety Code requirements.

NFPA 101 2006 requirements include physical and performance criteria crafted to promote safe egress, clear directions and adequate visibility.

Emergency lighting must be provided for at least 1 ½ hours in the event of a power failure. Emergency lighting must be arranged to provide an average >1.0 fc (10.8 lux) with a minimum > 0.1 fc (1.1 lux) at any point along the egress path at floor level. Illumination is allowed to decline up to 40% at the end of the 1 ½ hour time period. Max/min uniformity ratio of 40/1 can not be exceeded.

Existing battery-operated emergency lights shall use only reliable types of rechargeable batteries with suitable facilities for maintaining them in properly charged conditions. These batteries must be approved for their use and comply with NFPA 70, National Electrical Code.

Floor proximity EXIT signs shall be placed not less than 6" nor more than 18" above the floor and be used in addition to signs required for doors and corridors. For EXIT doors the signs must be placed on the door or adjacent to the door with the closest edge within 4" of the door frame.

Where floor proximity egress marking is used, the system must be installed no more than 18" above the floor and be continuous with the exceptions of doorways, hallways, corridors or other architectural features.

Externally illuminated EXIT signs must be lit to a level of 5fc (54 lux) and have a contrast ratio of not less than 0.5.

Internally illuminated EXIT signs must pass UL924, Standard for Safety Emergency Lighting and Power Equipment.

New signs require letters that are at least 6" high with the principal strokes of the letters at least ¾" wide. Existing signs may have lettering 4" high. Chevrons must be visible at 40'.

Simkar is proud to offer emergency lighting systems and EXIT signs that meet or exceed the minimum NFPA101 Life Safety Code requirements and UL924. Simkar solutions for a safe environment.



Look for this icon to indicate availability of Self-Diagnostic (SD) option

Self-Diagnostic (SD) Option

Our high quality, reliable exit and emergency products are now even easier to maintain when equipped with the Self-Diagnostic (SD) option. SIMKAR's Self Diagnosing option employs a programmed integrated circuit chip to continuously monitor and test the system to ensure proper performance in the event of an emergency.

The SD system also automatically performs the required NFPA and NEC code compliant testing of 15-minute battery discharge every 30 days and 90-minute full discharge every 12 months. The SD system automatically recharges the unit's battery and displays a system diagnosis via an LED indicator light.

SD also eliminates the physical test of emergency products. Since the LED indicator light provides a visual display, documentation of emergency lighting performance is as easy as a monthly walk through the building. SD is an economical solution to comply with safety codes and ensure emergency preparedness.

Look for the SD option on the following products: SLED LED Exit Lights, SREL Recessed Edge-lit LED Exit Lights, SDC Die-Cast Exit Lights, SCLI Combo LED Exit/Emergency Lights, and SEM Twin Head Emergency Lights.



Steady Green = Normal



Red/Green Flash = HI charge

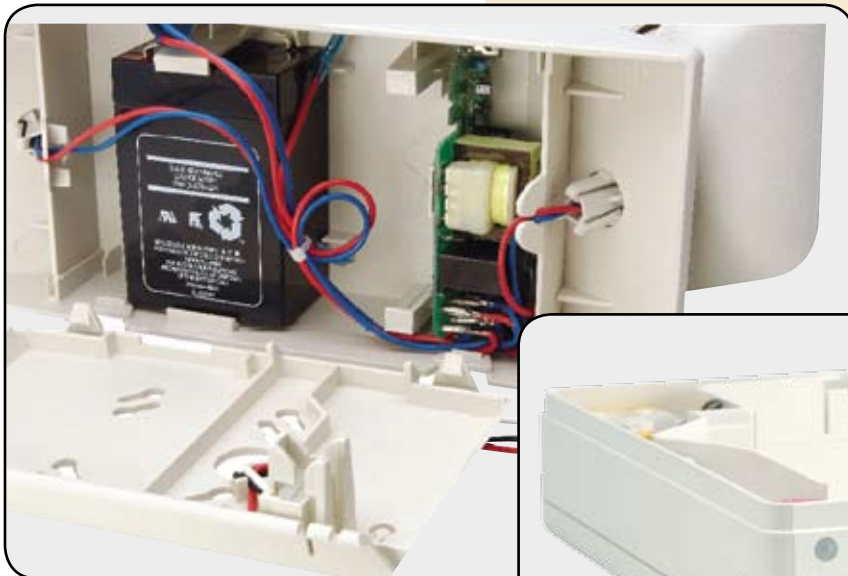


Steady Red = Battery disconnected
Double-Pulse Red = Battery failure



Not Illuminated = Emergency Mode

NOT SHOWN: Four-Pulse Red = Lamp Failure
Two-Pulse Green = 15 Minute Discharge





LED Exit Light illuminated by long lasting, ultra-efficient light emitting diodes, is inexpensive to operate and virtually maintenance-free.



Self-Diagnostic (SD)
option available

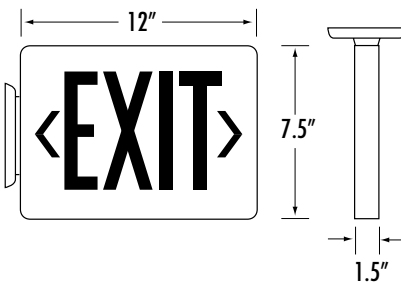


Back plate mount



Canopy
mount

Dimensions



Housing

Injection-molded, V-0 flame retardant, high-impact, thermoplastic low profile housing, white or black finish.

Provided with two faces and back plate as standard. ADA compliant for flush mounting.

Illumination

Energy efficient red or green LED with life of 25 years plus – energy consumption of less than 3 watts!

Options

Self-Diagnostic (option SD) continuously diagnoses unit performance and tests system (15-minute battery discharge every 30 days and 90-minute full discharge every 12 months) to ensure reliable operation and to meet electrical and life safety codes.

Battery

Emergency battery backup (option B) equipped with 4.8V nickel-cadmium, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours (battery back up units).

Electrical

Dual 120/277V voltage.

Dual circuit operation (option 2CIRCUIT) provides two transformers to meet special code requirements. (AC units only)

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

UL, C-UL (tested to C860), and ETL Damp location listed. Salida signage is ETL listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Side, top, or back mounting with universal mounting canopy or easy connect back plate, which fit most standard junction boxes.

Warranty

Five year warranty on all electronics and housing.



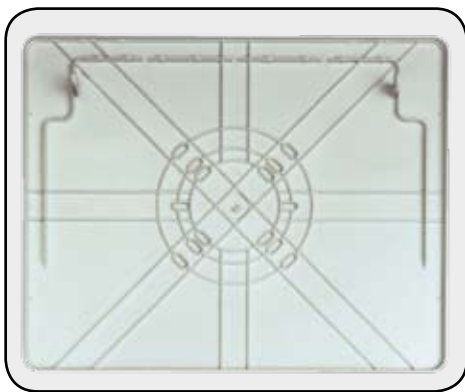
Also available in Spanish
(SALIDA)



Self-Diagnostic (SD)
option available

SLED Series Ordering Information

Series	Options	Lettering	Housing	Signage	Options
SLED	A = AC B = Battery Backup	G = Green R = Red	B = Black W = White	(Blank) = Exit SALIDA = Salida	2 CIRCUIT = Dual Circuit SD = Self-Diagnostic



Back plate mount



SREL Recessed Edge Lit LED Exit Light provides a pleasing architectural look with the recessed housing and virtually floating exit stencil.

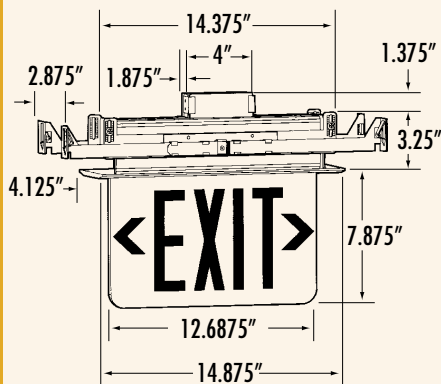


Self-Diagnostic (SD)
option available



Press-on
arrows

Dimensions



Housing

Natural finish recessed aluminum back box with galvanized steel adjustable bar hanger assembly and visible polished satin aluminum trim plate.

Illumination

Clear acrylic panel with beveled lettering for maximum light reflectance and press-on directional arrows provided with protective film to ensure flawless finish after installation.

Energy efficient red or green LED with life of 25 years plus – energy consumption of less than 3 watts!

Battery

Emergency battery backup (option B) equipped with 4.8V Ni-CD, sealed lead acid, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in

24 hours (battery back up units).

Electrical

Dual 120/277V voltage.

Dual circuit operation (option 2CIRCUIT) provides two transformers to meet special code requirements. (AC units only)

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Recessed ceiling mount, accessible above the plenum.

Easy-Install template provided for accurate ceiling cut-out ensures flush fit, proper seal and eliminates light leak.

Warranty

Five year warranty on all electronics and housing.



Press-on directional arrows

- Allow for placement with right arrow, left arrow, both arrows or no arrow
- No special ordering requirements
- Simply press on arrow and peel off template



Self-Diagnostic (SD)
option available



Recessed back box for a high-style,
aesthetically appealing design

SREL Series Ordering Information

Series	Options	Faces	Lettering	Trim Plate	Options
SREL	A = AC B = Battery Backup	1 = Single 2 = Double	G = Green R = Red	B = Black W = White A = Aluminum	2 CIRCUIT = Dual Circuit SD = Self-Diagnostic



SEL1GA

SEL Edge Lit LED Exit Light offers an elegant look that is easy to install.

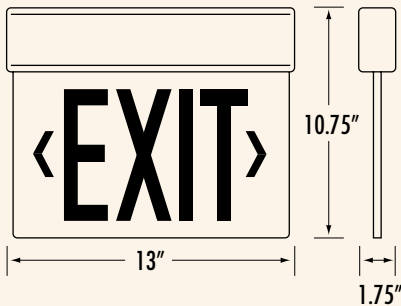


Press-on arrows



Tri-mount canopy for flush, side, or ceiling installation

Dimensions



Housing

Natural finish aluminum or white housing.
ADA compliant for flush mounting.

Illumination

Clear acrylic panel with beveled lettering for maximum light reflectance and press-on directional arrows provided with protective film to ensure flawless finish after installation.

Energy efficient red or green LED with life of 25 years plus – energy consumption of less than 3 watts!

Battery

Emergency battery backup (option B) equipped with 4.8V Ni-CD, sealed lead acid, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in

24 hours (battery back up units).

Electrical

Dual 120/277V voltage.

Dual circuit operation (option 2CIRCUIT) provides two transformers to meet special code requirements. (AC units only)

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

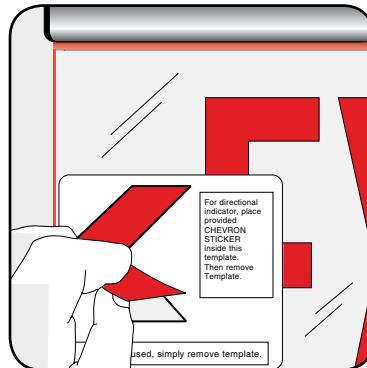
ETL and UL listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Tri-mount canopy for side, ceiling or flush installation.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



Press-on directional arrows

- Allow for placement with right arrow, left arrow, both arrows or no arrow
- No special ordering requirements
- Simply press on arrow and peel off template



Tri-mount canopy
flush installation



Tri-mount canopy
side installation



Tri-mount canopy
ceiling installation

SEL Series Ordering Information

Series	Options	Faces	Lettering	Housing	Options
SEL	A = AC B = Battery Backup	1 = Single 2 = Double	G = Green R = Red	A = Aluminum W = White	2 CIRCUIT = Dual Circuit



Self-Luminous Exit Light equipped with letter shaped luminous light tubes, is ideal for harsh locations and where electrical wiring is difficult or cost prohibitive.

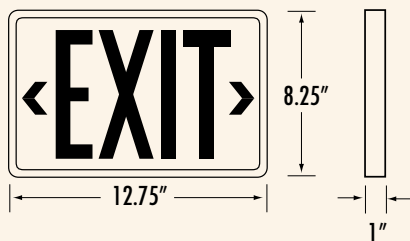


Self-luminous light tubes



Cover up arrows

Dimensions



Housing

Injection-molded, V-0 flame retardant, high-impact, thermoplastic low profile (ADA compliant) housing with rounded corners, die-cast brushed aluminum or powder coated black or white finish.

Completely sealed, vandal-resistant, explosion-proof housing, which is resistant to corrosion and vapors.

Options

Green, red, black or white faceplates with cover-up directional arrows.

Electrical

Uses no electricity, no operating costs.

Self-luminous with letter-shaped light tubes manufactured from borosilicate (hard) glass, internally coated with zinc sulfide phosphor and filled with tritium gas.

ETL listed. Meets UL924 and NFPA101 Life Safety Code. Suitable for wet locations.

Mounting

Concealed mounting bracket included for top, back or side installation.

Suitable for floor proximity mounting.

ADA compliant for flush mounting.

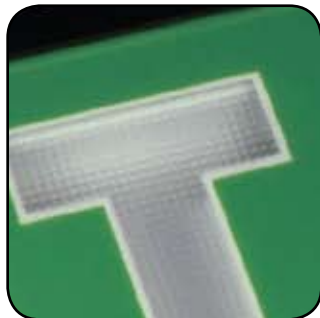
Warranty

Ten or twenty year warranty on illumination and housing (depending upon model).



Cover up directional arrows

- Allow for placement with right arrow, left arrow, both arrows or no arrow
- No special ordering requirements



SSL Series Ordering Information

Series	Life	Faces	Face	Housing
SSL	10 = 10 years 20 = 20 years	1 = Single 2 = Double	G = Green R = Red B = Black W = White	A = Brushed aluminum B = Black W = White



Light tubes operate from 10 to 20 years without an external power source



SDC Die-Cast Aluminum LED Exit Light equipped with snap-fit directional arrows and SIMKAR's easy connect installation feature, is available with multiple finishes for an upscale appearance.

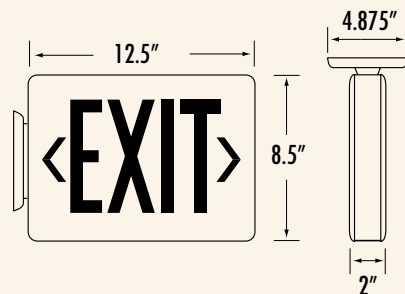


Self-diagnostic option available



Snap-fit arrows

Dimensions



Housing

Die-cast aluminum low profile (ADA compliant) housing, brushed aluminum, black or white finish.

Brushed aluminum, black or white finish faceplates with concealed snap out directional arrows.

Faceplates are tethered to the fixture housing for quicker installation.

Illumination

Energy efficient red or green LED with life of 25 years plus – energy consumption of less than 3 watts!

Options

Self-Diagnostic (option SD) continuously diagnoses unit performance and tests system (15-minute battery discharge every 30 days and 90-minute full discharge every 12 months) to insure reliable operation and to meet electrical and life safety codes.

Battery

Emergency battery backup (option B) equipped with 4.8V nickel-cadmium, maintenance-free, rechargeable battery.

Dual circuit operation (option 2CIRCUIT) provides two transformers to meet special code requirements. (AC units only)

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours (battery back up units).

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL damp location listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Side, top, or back mounting with die-cast aluminum universal mounting canopy or easy connect back plate, which fit most standard junction boxes.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



Concealed Snap-fit Directional Arrows

- Allow for placement with right arrow, left arrow, both arrows or no arrow
- No special ordering requirements
- Simply snap out the arrow



Self-Diagnostic (SD)
option available

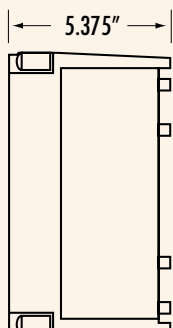
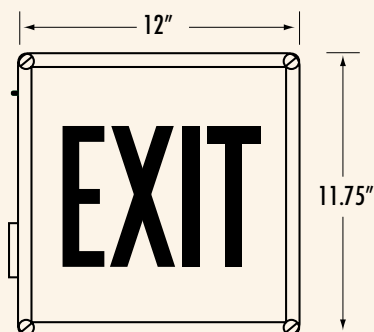
SDC Series Ordering Information

Series	Options	Faces	Lettering	Housing	Face Color	Options
SDC	A = AC B = Battery Backup	1 = Single 2 = Double	G = Green R = Red	A = Brushed aluminum B = Black W = White	A = Brushed aluminum B = Black W = White	2 CIRCUIT = Dual Circuit SD = Self-Diagnostic



SWLED Wet Location LED Exit Light fully enclosed, durable housing is ideal for applications where it will be exposed to the elements.

Dimensions



Housing

Polycarbonate and fiberglass enclosure resistant to corrosive atmospheres, non-hazardous dust environments and to water spray, splashing water or where hose downs frequently occur.

Exit light provided with one face with snap-in directional arrows.

Illumination

Energy efficient red or green LED with life of 25 years plus – energy consumption of less than 3 watts!

Battery

Emergency battery backup (option B) equipped with 4.8V nickel-cadmium, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours (battery back up units).

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL Wet location (0°- 50°C) listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Back plate fits most standard junction boxes.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



SWLED Series Ordering Information

Series	Options	Lettering	Housing
SWLED	A = AC B = Battery Backup	G = Green R = Red	W = White

Enclosure is resistant to corrosive atmospheres, non-hazardous dust environments, and to water spray, splashing water, or where hose downs frequently occur.

Housing

Polycarbonate and fiberglass enclosure resistant to corrosive atmospheres, non-hazardous dust environments and to water spray, splashing water or where hose downs frequently occur.

Exit light provided with one face with snap-in directional arrows.

Illumination

Two fully adjustable 5.4 watt, glare-free lighting heads.

Energy efficient red or green LED with life of 25 years plus – energy consumption of less than 3 watts!

Battery

6V nickel-cadmium, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours.

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL Wet location (0°- 50°C) listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Integral mounting holes allow for flush mounting to walls while retaining water-tight integrity.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



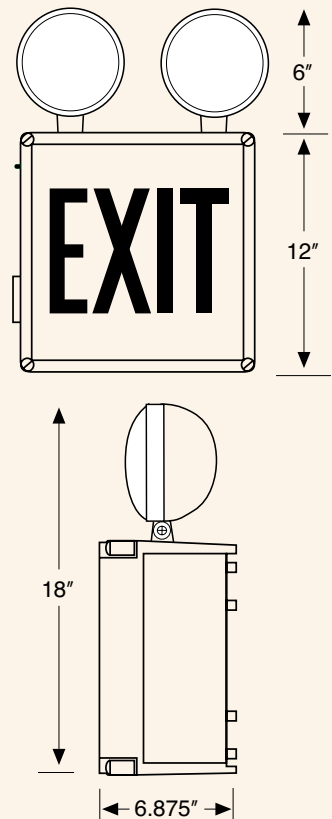
CSWLED The Wet Location Combination Exit and Emergency Light is the ideal solution for stairwell and corridor egress lighting where splashing, dripping or hose downs of non corrosive liquids can occur.



CSWLED Series Ordering Information

Series	Lettering	Housing
CSWLED	G = Green R = Red	W = White

Dimensions



Enclosure is resistant to corrosive atmospheres, non-hazardous dust environments, and to water spray, splashing water, or where hose downs frequently occur.



SCLI combines an LED exit light and emergency light in one shallow profile unit making it ideal for use above doorways.



Self-diagnostic option available

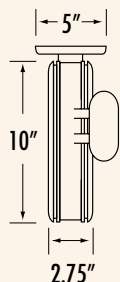
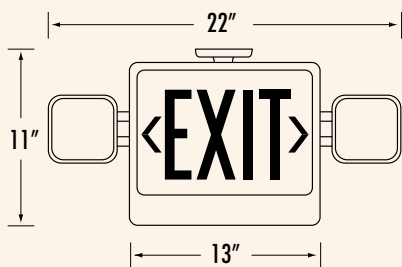


Fully adjustable heads



Canopy mount

Dimensions



Housing

Injection-molded, V-0 flame retardant, high-impact, thermoplastic low profile housing, white or black finish. Exit light provided with one face with snap-in directional arrows.

Illumination

Two fully adjustable 5.4 watt, glare-free lighting heads. High performance smooth thermoplastic reflector and polycarbonate lens for optimal light distribution and resistance to discoloration. Energy efficient red or green LED with life of 25 years plus – energy consumption of less than 3 watts!

Options

Remote capable (option REM) for operation of up to two additional lighting heads.

Self-Diagnostic (option SD) continuously diagnoses unit performance and tests system (15-minute battery discharge every 30 days and 90-minute full discharge every 12 months) to insure reliable operation and to meet electrical and life safety codes.

Battery

6V, 4.5AhH sealed lead acid, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours.

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL Damp location listed. Red LED unit is C-UL (tested to C860) listed. Meets UL924, NFPA101 Life Safety Code, and NEC requirements.

Mounting

Side, top, or back mounting with universal mounting canopy or easy connect back plate, which fit most standard junction boxes.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



Easy Connect Feature

1. Simply pull supply wires in junction box through the canopy or backplate knockout
2. Secure the canopy or backplate to the junction box. Wire fixture with both hands free!
3. Snap the entire fixture right onto the canopy

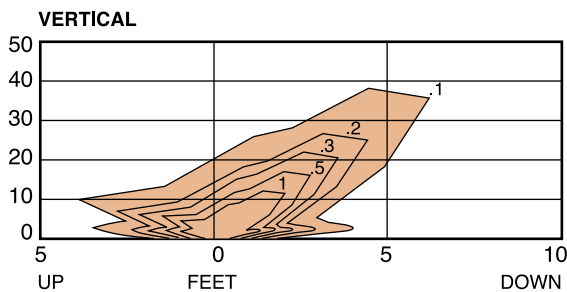
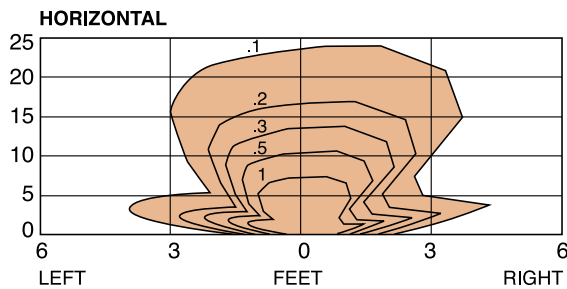


Two fully adjustable lighting heads for 360° coverage provide maximum illumination anywhere you need it!



Also available in Spanish
(SALIDA)

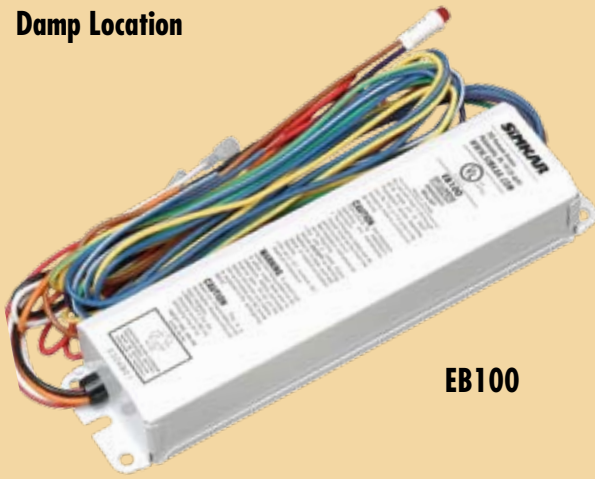
Photometric Data



SCLI Series Ordering Information

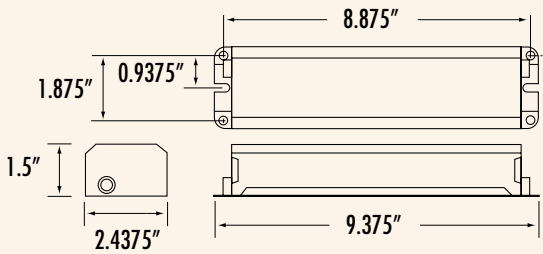
Series	Faces	Lettering	Housing	Signage	Options
SCLI	2 = Double	G = Green R = Red	B = Black W = White	(Blank) = Exit SALIDA = Salida	REM = Remote capable SD = Self-Diagnostic 7 = 7.2W lamps MR16 = MR16 lamps

Damp Location

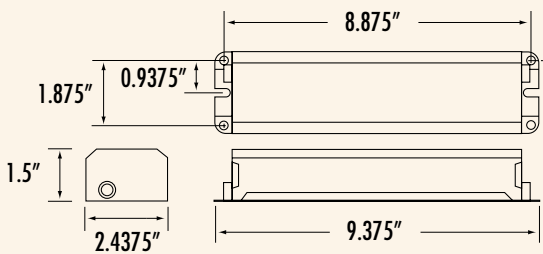


EB100

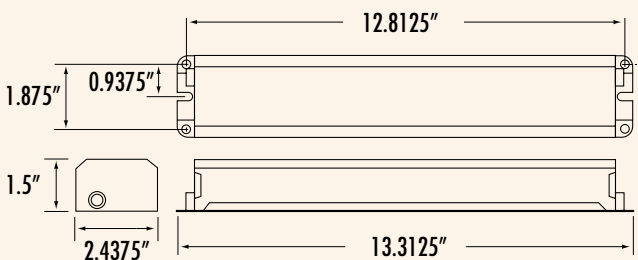
EB100



EB60



EB50



Housing

Heavy gauge steel case, white powder coat finish.

Illumination

EB100 operates one lamp at 450 initial lumens.

EB60 and EB50 can operate one or two lamps at 450, 700, or 1400 initial lumens.

Compatible with most 1, 2, 3, and 4-lamp electronic, standard, energy saving and dimming AC ballasts.

Battery

Sealed nickel-cadmium, maintenance-free, rechargeable with life expectancy of 7 to 10 years.

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for code compliance.

UL listed, damp location, for retrofit/field installation to UL924 and C-UL, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Inside, on top of, or remote mount from existing fluorescent fixtures.

Remote mounting distance of emergency ballasts should not exceed half the AC ballast manufacturer's recommended remote mounting distance from the lamps for standard AC ballasts, or 50 feet, whichever is less.

Warranty

Five year warranty on all electronics and case.



EB Series Ordering Information

Series	Options
EB	100 = Operates one lamp, 450 maximum lumen output 60 = Operates one or two lamps, 700 maximum lumen output 50 = Operates one or two lamps, 1400 maximum lumen output

Upgrade to LED

SIMKAR's exits are equipped with energy efficient high output LEDs. Light emitting diodes or LEDs are semiconductors that convert applied voltage to light. LEDs offer a cost effective alternative to short-lived, high maintenance incandescent or fluorescent units.

Changing out ONE incandescent exit sign to a newer Simkar LED version can result in savings of over \$240 annually. Using efficient LEDs, annual cost savings are substantial. Replace 5 exit signs - realize a savings of \$1,210, 10 Exit signs - realize a savings of \$2,420 and so on. The costs add up and in large facilities, with as many as 50 exit lights, savings of \$12,100 are possible. Using Simkar's LED exits will also reduce peak kWh demand.

Safety is another reason for upgrading incandescent exit signs to Simkar LED exit signs if incandescent exit sign lamps are not relamped as soon as they burn out. Even in the best-maintained facilities, it is not uncommon to find as many as 25% of bulbs installed in incandescent exit lights to be burned out. Not only does this compromise a safe evacuation in the event of an emergency but valuable employee or contractor time must be utilized replacing burned out exit bulbs.



LED vs. Incandescent Annual Savings

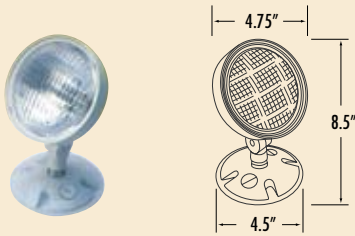
	Exit Signs	Lamp Life in Hours	Re-Lamp Over Life of LED	Annual kWh Usage	Annual Energy Cost*	Lifetime Energy Cost**	Lifetime Maint. Cost***	Lifetime Operating Cost
Incandescent	(2) 11 watt Incandescent bulbs	19,000	6	193	\$19.27	\$101.42	\$171.00	\$272.42
LED	2.8 watt LEDs or 2.8 watt Retrofit LED Kit	100,000	0	25	\$2.45	\$27.96	\$0.00	\$30.41
Savings	Savings by switching out one LED Exit Sign	—	—	168 kWh	\$16.82	\$73.46	\$171.00	\$242.01

* Based on 24 hrs/365 days (8,760 hrs) @ \$0.10/kWh

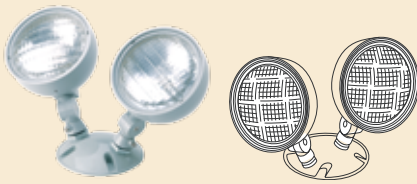
** Based on 100,000 (life of LED) @ \$0.10/kWh

*** Based on bulb cost of \$3.00 ea., Labor at \$45.00/hr for 30 min. per fixture (\$22.50) over the life of the LED (100,000 hrs).

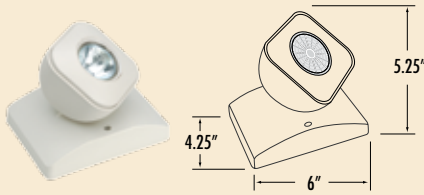
REM Remote Heads whether installed alone or in conjunction with other quality exit and emergency products are an economical way to light the path of egress.



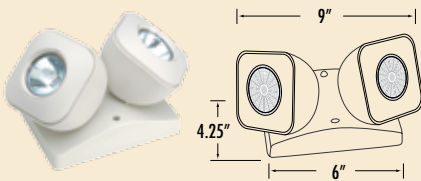
REMWP



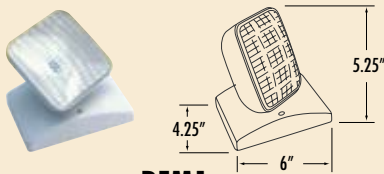
REM2WP



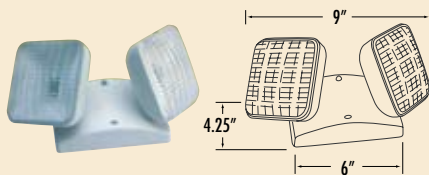
REMR16-1



REMR16-2



REM1



REM2

Housing

Injection-molded, V-0 flame retardant, high-impact, thermoplastic housing.

Illumination

One or two fully adjustable glare-free lighting heads (specify wattage in part number).

High performance smooth thermoplastic reflector and polycarbonate lens for optimal light distribution and resistance to discoloration.

Options

Weatherproof (option WP) is available.

Electrical

ETL listed. Weatherproof unit is ETL Wet Location Listed. Meets UL924, NFPA101 Life Safety Code, and NEC requirements.

Mounting

Surface mount, fits most standard junction boxes.

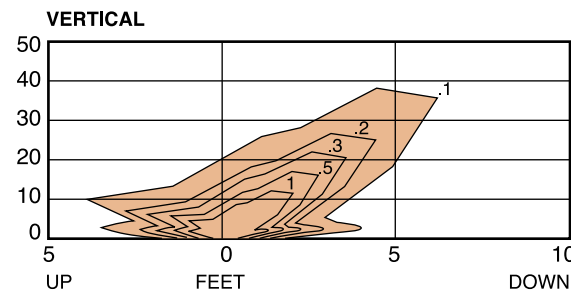
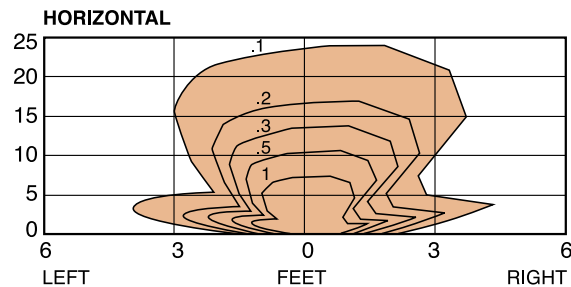
Warranty

Five year warranty on all electronics and housing.



Available in both incandescent and MR16

Photometric Data



REM Series Ordering Information

Series	Number of Heads	Options
REM = Remote 5.4W Incandescent Head	1 = One	WP = Weatherproof
REMR16 = Remote SW MR16 Head	2 = Two	6 = 6V
		12 = 12V
		5 = 5.4W lamps
		7 = 7.2W lamps
		9 = 9W lamps

PS 1

Polycarbonate shield For SLED Exit signs and SEM Emergency lights.

7.5" x 21" x 13"

SW1 / SW2

Durable stainless steel construction. Specify suffix 1 for SEM, SDC, SFOEM, SLED and SSL Exit & Emergency lights

13.5" x 15" x 6"

Specify suffix 2 for SCLI Exit Signs

13.5" x 30" x 6"

LED RET AD

For 120V applications. 2.8 watts per kit.

For retrofitting incandescent exits only.

Red (LED RET AD)

Green (LED RET AD G)

For screw in units.

Socket adapters supplied (for signs with bayonet, intermediate, or candelabra bases). Each unit is 5 1/8" tall by 1 5/8" wide (add 1/8" when using adapters). ETL listed.

LED RET HW

Red LED Retrofit Kit. For hard wire in units. For use with red lettered exits. For 120V or 277V applications. Energy efficient - 2.8 watts per kit. Kits come complete with mounting bracket and double face tape. ETL listed.

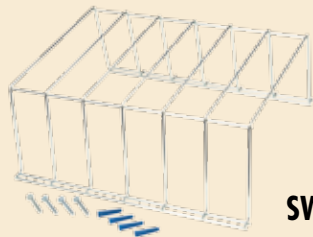
BAT1

6V, 4.5AhH sealed lead acid battery for SEM, SEMR16, SFOEM, and SCLI units.

SLED BAT

4.8V nickel-cadmium battery for SLED and SDC Exit Signs.

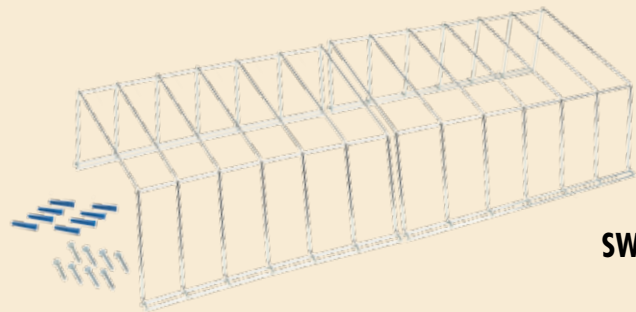
Protective Barriers Heavy duty wireguards offer protection for emergency and exit products in vandal or high abuse applications.



SW1



PS 1



SW2

Retrofit Kits Upgrade incandescent to LEDs.



LED RET AD



LED RET HW

Replacement Batteries Replacement power sources for our most popular emergency and exit products.



SLED BAT



BAT1



SEM Twin head emergency light with two fully adjustable lighting heads, is as flexible as it is economical

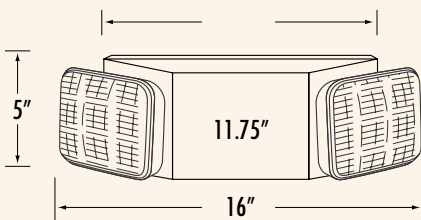


Self-Diagnostic (SD) option available



Two fully adjustable lighting heads for 180° coverage.

Dimensions



Housing

Injection-molded, V0 flame retardant, high-impact, thermoplastic low profile housing, white or black finish.

Illumination

Two fully adjustable 5.4 watt, glare-free lighting heads.

High performance smooth thermoplastic reflector and polycarbonate lens for optimal light distribution and resistance to discoloration.

Options

3 foot 3-wire cord and plug available (option C3).

Remote capable (option REM) for operation of up to two additional 5.4 watt lighting heads.

Self-Diagnostic (option SD) continuously diagnoses unit performance and tests system (15-minute battery discharge every 30 days and 90-minute full discharge every 12 months) to insure reliable operation and to meet electrical and life safety codes.

Battery

6V, 4.5Ah, sealed lead acid, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours.

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

UL, C-UL (tested to C860), and ETL Damp location listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Surface mount, wall or ceiling, via easy connect back plate, which fits most standard junction boxes and snaps into place making internal electrical connections.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



Easy Connect Feature

1. Simply pull supply wires in junction box through the canopy or backplate knockout
2. Secure the canopy or backplate to the junction box. Wire fixture with both hands free!
3. Snap the entire fixture right onto the canopy

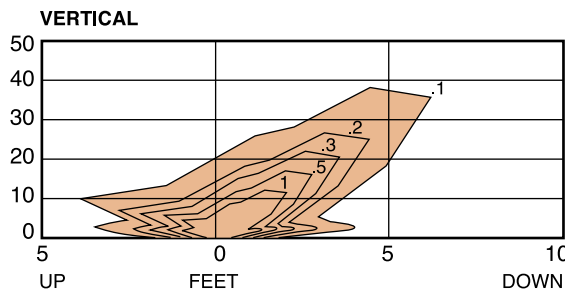
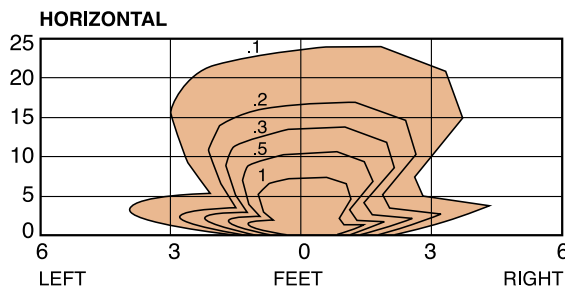


Two fully adjustable lighting heads for 180° coverage



Self-Diagnostic (SD) option available

Photometric Data



SEM Series Ordering Information

Series	Housing	Option
SEM	B = Black W = White	C3 = 3' Cord & Plug SD = Self-Diagnostic

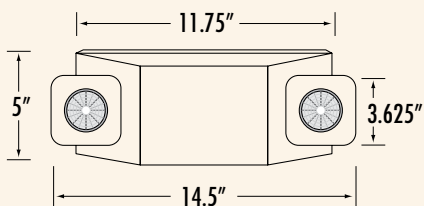


SEMR16 Twin MR16 Emergency Light incorporates the concentrated beam spread and higher luminous intensity of MR16 lamps in attractive mini swivel heads.



Two fully adjustable lighting heads for 180° coverage

Dimensions



Housing

Injection-molded, V0 flame retardant, high-impact, thermoplastic low profile housing, white or black finish.

Illumination

Two fully adjustable glare-free lighting heads equipped with 5 watt MR16 tungsten halogen lamps. High performance smooth thermoplastic reflector and polycarbonate lens for optimal light distribution and resistance to discoloration.

Options

3 foot 3-wire cord and plug available (option C3). Remote capable (option REM) for operation of up to two additional 5 watt lighting heads.

Battery

6V, 4.5Ah, sealed lead acid, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours.

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

UL, C-UL (tested to C860), and ETL Damp location listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Surface mount, wall or ceiling, via easy connect back plate, which fits most standard junction boxes and snaps into place making internal electrical connections.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



Easy Connect Feature

1. Simply pull supply wires in junction box through the canopy or backplate knockout
2. Secure the canopy or backplate to the junction box. Wire fixture with both hands free!
3. Snap the entire fixture right onto the canopy

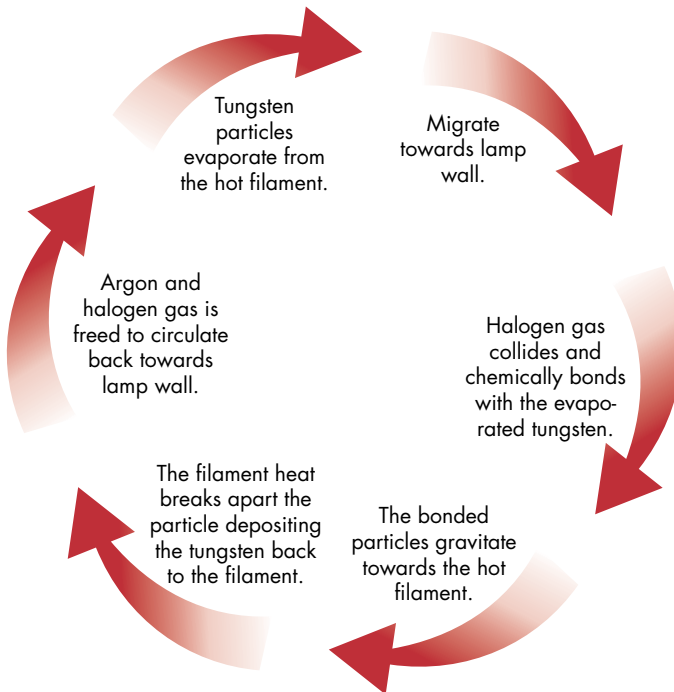


Two fully adjustable lighting heads for 180° coverage



Halogen Cycle

Why halogen lamps last longer



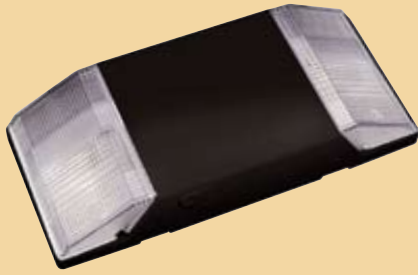
The halogen cycle of the MR16 prevents blackening resulting in higher lumen maintenance and extended lamp life

MR16 lamps provide

- increased luminous intensity
- higher lumen maintenance
- longer life

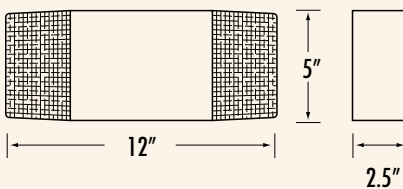
SEMR16 Series Ordering Information

Series	Housing	Options
SEMR16	B = Black W = White	C3 = 3' Cord & Plug REM = Remote capable



SFOEM Fixed Optics Emergency Light is ideal for applications where economical emergency illumination along the path of egress is desired.

Dimensions



Housing

Injection-molded, V-0 flame retardant, high-impact, thermoplastic low profile (ADA compliant) housing, white or black finish.

Illumination

High performance smooth thermoplastic reflector and polycarbonate lens for optimal light distribution and resistance to discoloration.

Options

4 foot or 7 foot, 3-wire cord and plug available (Option C4 or C7).

Battery

6V, 4.5Ah, sealed lead acid, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours.

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL Damp location listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Surface mount, wall or ceiling, via easy connect back plate, which fits most standard junction boxes and snaps into place making internal electrical connections.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



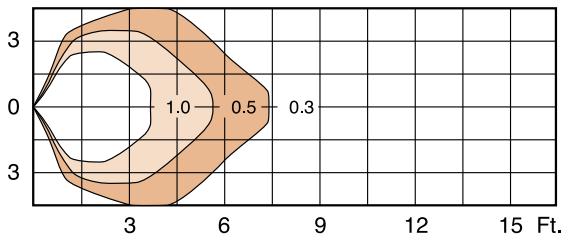
Easy Connect Feature

1. Simply pull supply wires in junction box through the canopy or backplate knockout
2. Secure the canopy or backplate to the junction box. Wire fixture with both hands free!
3. Snap the entire fixture right onto the canopy

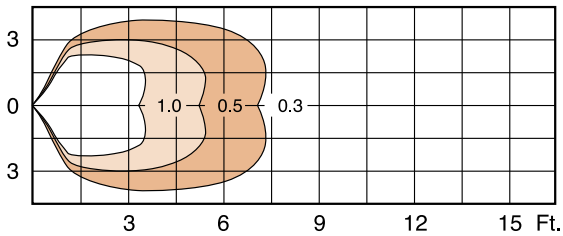


Photometric Data

HORIZONTAL



VERTICAL



SFOEM Series Ordering Information

Series	Housing	Options
SFOEM	B = Black W = White	C4 = 4' Cord & Plug C7 = 7' Cord & Plug

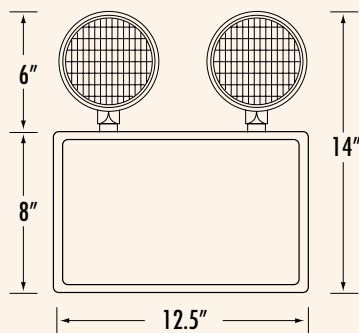
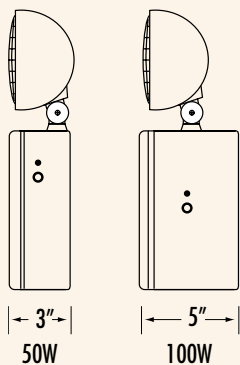


SHDEM Heavy Duty Emergency Light is the powerhouse with the highest wattage capacity of our offering.



Fully adjustable heads

Dimensions



Housing

Injection-molded, V-0 flame retardant, high-impact thermoplastic housing and lighting heads in neutral finish. Side and top knockouts provided.

Illumination

Two fully adjustable glare-free lighting heads. 6V units supplied with 7.2 watt oval type lamps, 12V units with 9 watt.

High performance parabolic reflector and internally prismatic glass lens with smooth exterior provide optimal light distribution, resistance to discoloration.

Options

Power additional or remote heads up to designated wattage of unit specified in part number.

Battery

6V 10AH, sealed lead acid, maintenance-free, rechargeable battery for 6V and 12V systems.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours.

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

Integral back plate with keyhole slots fits most standard junction boxes.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.

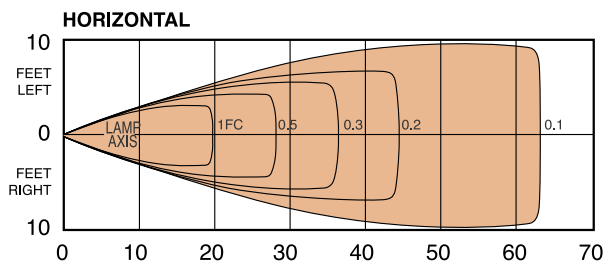
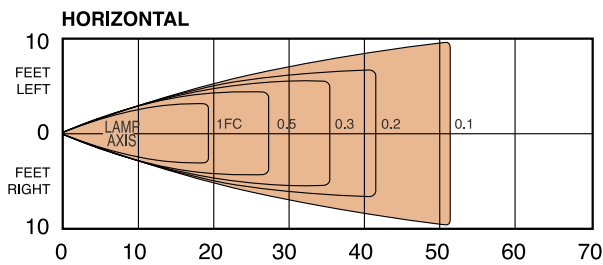


Fully adjustable heads

- Two fully adjustable lighting heads for 360° coverage
- Serrated teeth lock the head into position for dependable performance



Photometric Data



SHDEM Series Ordering Information

Series	Wattage	Battery Voltage	Options
SHDEM	28 = 28 watt capacity 36 = 36 watt capacity 50 = 50 watt capacity 72 = 72 watt capacity 100 = 100 watt capacity	12 = 12V 6 = 6V	REM = Remote Capable



SWLEM Wet Location Emergency Light is designed for durability and provides emergency illumination through most weather conditions.

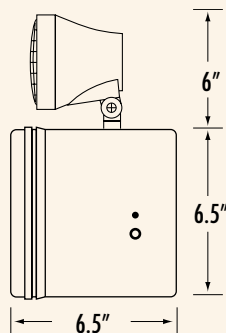
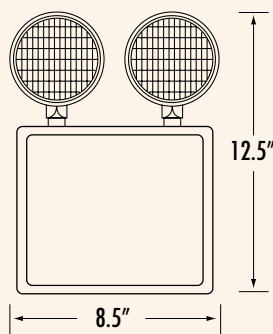


Fully adjustable heads



ETL wet location listed

Dimensions



Housing

Injection-molded, UV coated, V-0 flame retardant, high-impact, thermoplastic enclosure resistant to corrosive atmospheres, non-hazardous dust environments and to water spray, splashing water or where hose downs frequently occur.

Illumination

Two fully adjustable 7.2 watt, glare-free lighting heads.

High performance parabolic reflector and glass lens for optimal light distribution and resistance.

Options

Remote capable (option REM) for operation of up to two additional 5.4 watt lighting heads.

Battery

6V, sealed lead acid, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours (battery back up units).

Electrical

Dual 120/277V voltage.

Charge rate/power on LED indicator light and push-to-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

ETL Wet location (0° - 50°C) listed. Meets UL924, NFPA101 Life Safety Code, and NEC requirements.

Mounting

Back plate fits most standard junction boxes.

Warranty

Five year warranty on all electronics and housing. Batteries are pro-rated warranted for 5 years.



Fully adjustable Heads

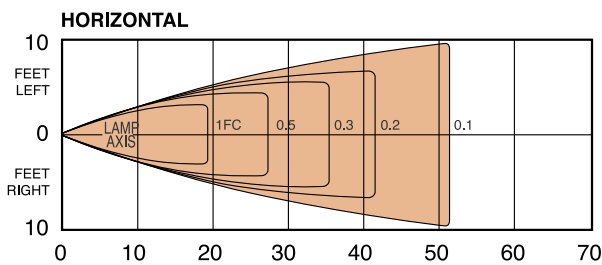
- Two fully adjustable lighting heads for 360° coverage
- Serrated teeth lock the head into position for dependable performance



ETL wet location listed

- Fully gasketed wet location enclosure withstands the elements
- Hinged access for easy hands-free wiring

Photometric Data



SWLEM Series Ordering Information

Series	Wattage	Battery Voltage	Options
SWLEM	14 = 2x7.2W	6 = 6V	REM = Remote Capable



HID Lighting HIGH AND LOW BAYS

Simkar's line of high and low bay fixtures provide an excellent value for your energy dollar and are an effective solution for applications such as warehouses/distribution centers, gymnasiums/multi-purpose rooms, parking garages, retail stores, factories and transportation terminals.

The Y-Pod Series features clean lines and subtle heat dissipating vertical fins of the cast-aluminum housing and cover which reduces the collection of airborne particles and retains a new appearance. Lamps are easy to replace and the optics are adjustable with Simkar's patented Twist-N-Lock™ feature - an easy 7- position optic adjustment.

Probe Start Metal Halide discontinuation notice

The Energy Independence and Security Act of 2007 (HR6) bans the manufacture of virtually all Probe Start Metal Halide fixtures between 150W – 500W as of January 1, 2009. Only certified Pulse Start Metal Halide fixtures will be manufactured after that time. Those fixtures will be identified with a "circle-E" logo on the packaging and ballast:



Existing Probe Start Metal Halide Fixtures manufactured before January 1, 2009 can be sold until the inventory is depleted. Some MH fixtures are exempt, but the vast majority will be eliminated. To review a copy of the law, refer to Section 324, Metal Halide Lamp Fixtures in the above act. Probe Start MH ballast kits will still be available and are not affected by the law.

Wattage Range:
320 - 400 W



The heavy-duty ZC Series is designed for commercial and industrial applications. Electronic ballast technology offers shortened start-up time, faster restrike, maintained color uniformity and improved lumen maintenance over the life of the lamp.

55 °C Ambient Rated

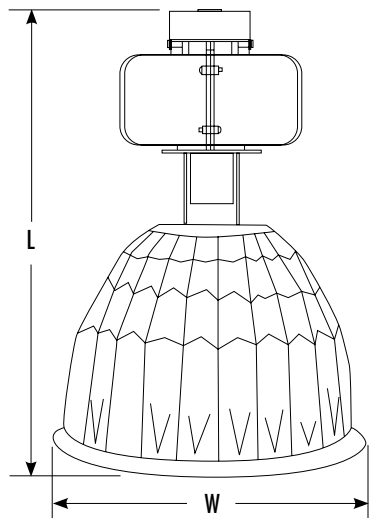


UL Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Approx. Ship Wt.
ZCS Series	22"	17"	7 lbs.
ZCL Series	22"	22"	7 lbs.

Spacing Criteria: 0.7 - 1.8



Features

Ballast

This true sinusoidal, high frequency, fully-dimmable electronic highbay is available with 250W, 320W, 350W and 400W metal halide lamps. The electronic ballast features auto voltage input from 208 - 277V, 50/60Hz, end-of-life protection and shut down circuit, thermal protection and has a sound rating of A.

Lamps

The ZC series is supplied with 250 - 400W pulse start metal halide lamps. Open rated pulse start metal halide systems are provided with an open rated mogul socket.

Reflector

The 17" and 22" hard anodized faceted aluminum reflector resists dirt buildup, cleans easily with water and provides high light levels with very low glare.

Adjustable Distribution

The patented spring-loaded Twist-N-Lock™ reflector attachment system allows for complete tool-free



reflector installation. Simply pull open the spring-loaded locking pins and snap-lock the reflector in place.

Mounting Options

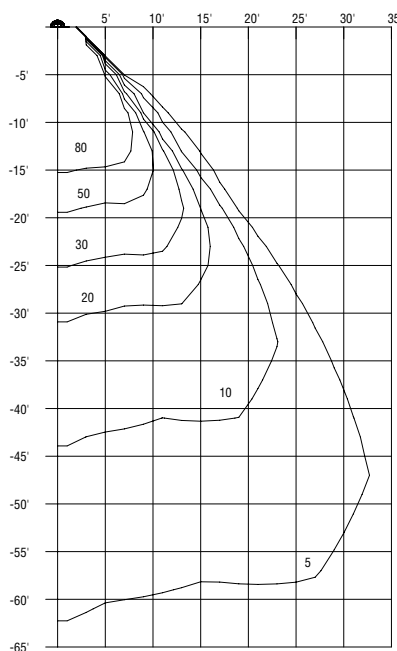
A direct hard wire slide box or a Hook, Cord & Plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. Also, the easy-access wiring chamber provides additional room for wiring make-up.

Photometric Data

(Isofootcandle Plots)

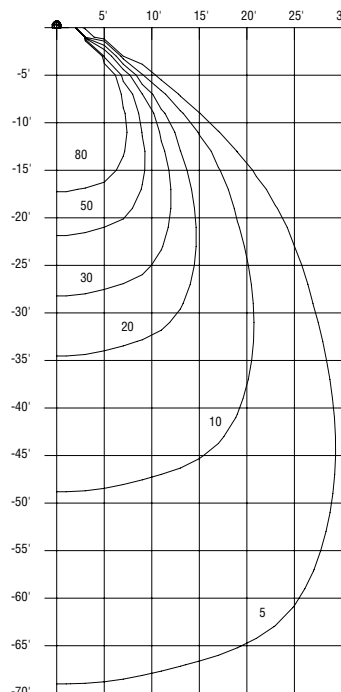
17" Faceted

Cat #: ZCS0840
Lamp: 400W Clear MH/PS
Lumens: 44,000
Socket Position: 5
Certified Test Report: 35-174981-00
IES File: ECS440M.IES
Spacing Criteria: 1.5 max.



22" Faceted

Cat #: ZCL0840
Lamp: 400W Clear MH/PS
Lumens: 50,000
Socket Position: 4
Certified Test Report: LTL06458
IES File: ECL440M.IES
Spacing Criteria: 1.5 max.



ZC Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp / Slide-Box	Enclosed Rated Lamp, Hook, Cord & Plug	Open Rated Lamp, Slide-Box	Open Rated Lamp Hook, Cord & Plug
ZCS	17"	☉ 250W MH/PS	ZCS0825-(a)L(b)*	ZCS2825-(a)L(b)*	ZCS0925-(a)L(b)*	ZCS2925-(a)L(b)*
		☉ 320W MH/PS	ZCS0832-(a)L(b)*	ZCS2832-(a)L(b)*	ZCS0932-(a)(b)	ZCS2932-(a)(b)
		☉ 350W MH/PS	ZCS0835-(a)L(b)*	ZCS2835-(a)L(b)*	ZCS0935-(a)(b)	ZCS2935-(a)(b)
		☉ 400W MH/PS	ZCS0840-(a)L(b)*	ZCS2840-(a)L(b)*	ZCS0940-(a)(b)	ZCS2940-(a)(b)
ZCL	22"	☉ 320W MH/PS	ZCL0832-(a)L(b)*	ZCL2832-(a)L(b)*	ZCL0932-(a)(b)	ZCL2932-(a)(b)
		☉ 350W MH/PS	ZCL0835-(a)L(b)*	ZCL2835-(a)L(b)*	ZCL0935-(a)(b)	ZCL2935-(a)(b)
		☉ 400W MH/PS	ZCL0840-(a)L(b)*	ZCL2840-(a)L(b)*	ZCL0940-(a)(b)	ZCL2940-(a)(b)

Mountings and Accessories



Slide Box

Ordering Code **0**



Hook, Cord & Plug

Ordering Code **2**

Voltage (a)	Options (b) (Factory Installed)	Accessories (Field Installed)
A = Auto Voltage Input (standard) 200-277V <i>For units with hook, cord & plug, specify voltage:</i> 1 = 120V 2 = 277V 3 = 208V 4 = 240V	C = Coated Lamp L = Flat lens assembly included on * fixtures Q = Quartz Standby	<i>Flat Glass Lens - 17" & 22"</i> Options & Accessories on page 188 <i>Wire Guard - 17" & 22"</i> Options & Accessories on page 188 A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ DMC-1 = Dimming Module Electronic Controllers on page 156 CX-100 = Passive infrared occupancy sensor on page 157 B-120E-P = 120V Power Supply Electronic Controllers on page 159 B-277E-P = 277V Power Supply Electronic Controllers on page 159

See page 188 for complete listing of all lens assemblies and guard options.

* Includes bottom lens assembly plus appropriate cost adder

Example

<u>ZCS</u>	<u>0</u>	<u>8</u>	<u>25</u>	<u>2</u>	<u>Q</u>
Series	Mounting	Light Source	Wattage	Voltage	Options
ZCS = 17" Reflector	0 = Slide box	8 = Enclosed MH/PS* ☉	25 = 250W	2 = 277 Volt	Q = Quartz Standby

Wattage Range:
320 - 400 W



**Electronic
Technology
Inside**

Lamp Included

The high-performance optics of this prismatic refractor luminaire, combined with electronic ballast technology, make the ZL Series ideal for industrial plants, warehouses, gymnasiums, retail stores and showrooms.

40°C, 55°C

Ambient Rated

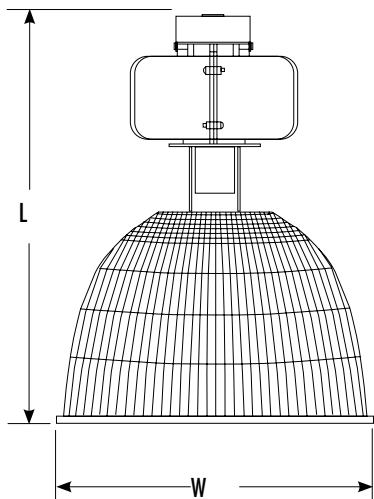


 Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Approx. Ship Wt.
ZLS Series	22.1"	16"	16 lbs.
ZLM Series	24.7"	22"	17 lbs.
ZLL Series	25.1"	25"	20 lbs.

Spacing Criteria: 0.9 - 2.0



Features

Ballast

This true sinusoidal, high frequency, full dimmable electronic highbay is available with 250W, 320W, 350W and 400W metal halide lamps. The electronic ballast features auto voltage input from 208 - 277V, 50/60Hz, end-of-life protection and shut down circuit, thermal protection and has a sound rating of A.

Lamps

The ZL series is supplied with 250 - 400W pulse start metal halide lamps. Open rated fixtures are supplied with restricted sockets and open rated lamps. The 320W, 350W and 400W lamps cannot be enclosed in the ZLS Series.

Refractor

The ZL Series refractor is available in 16", 22" and 25" diameters. The clear acrylic prismatic refractor provides over 90% efficiency and approximately 15% - 20% uplight.

Adjustable Distribution

The patented spring-loaded Twist-N-Lock™ reflector attachment system allows for complete tool-free reflector installation. Simply pull open the spring-loaded locking pins and snap-lock the reflector in place.



Twist-N-Lock™ - Locked

Twist-N-Lock™ - Open

Mounting Options

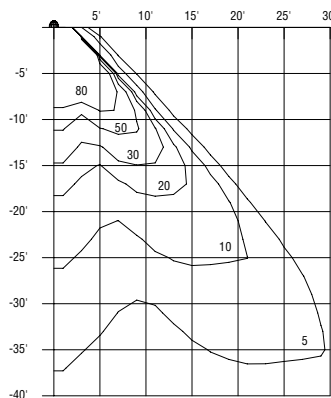
A direct hard wire slide box or a Hook, Cord & Plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. Also, the easy-access wiring chamber provides additional room for wiring make-up.

Photometric Data

(Isofootcandle Plots)

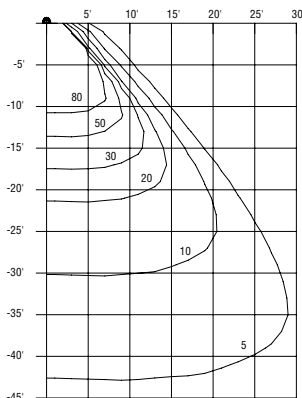
16" Prismatic

Cat #: ZLS0935
Lamp: 350W Coated MH/PS
Lumens: 33,400
Socket Position: 7
Certified Test Report: LSI7875
IES File: ELS440N.IES
Spacing Criteria: 2.2



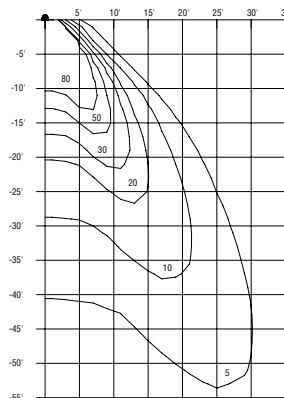
22" Prismatic

Cat #: ZLM0240
Lamp: 400W Coated MH/PS
Lumens: 42,000
Socket Position: 4
Certified Test Report: ITL37107
IES File: ELM440FM.IES
Spacing Criteria: 2.0



25" Prismatic

Cat #: ZLL0840
Lamp: 400W Coated MH/PS
Lumens: 47,500
Socket Position: 3
Certified Test Report: ITL42314
IES File: ELL0440.IES
Spacing Criteria: 1.88



ZL Series Ordering Information

Series	Refractor Size	Wattage / Lamp	Enclosed Rated Lamp Slide-Box	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Slide-Box	Open Rated Lamp Hook, Cord & Plug
ZLS	16"	☑ 250W MH/PS	ZLS0825-(a)L(b)*	ZLS2825-(a)L(b)*	ZLS0925-(a)(b)	ZLS2925-(a)(b)
		☑ 320W MH/PS			ZLS0932-(a)(b)	ZLS2932-(a)(b)
		☑ 350W MH/PS			ZLS0935-(a)(b)	ZLS2935-(a)(b)
		☑ 400W MH/PS			ZLS0940-(a)(b)	ZLS2940-(a)(b)
ZLM	22"	☑ 320W MH/PS	ZLM0832-(a)L(b)*	ZLM2832-(a)L(b)*	ZLM0932-(a)(b)	ZLM2932-(a)(b)
		☑ 350W MH/PS	ZLM0835-(a)L(b)*	ZLM2835-(a)L(b)*	ZLM0935-(a)(b)	ZLM2935-(a)(b)
		☑ 400W MH/PS	ZLM0840-(a)L(b)*	ZLM2840-(a)L(b)*	ZLM0940-(a)(b)	ZLM2940-(a)(b)
ZLL	25"	☑ 350W MH/PS	ZLL0835-(a)L(b)*	ZLL2835-(a)L(b)*	ZLL0935-(a)(b)	ZLL2935-(a)(b)
		☑ 400W MH/PS	ZLL0840-(a)L(b)*	ZLL2840-(a)L(b)*	ZLL0940-(a)(b)	ZLL2940-(a)(b)

* Includes bottom lens assembly plus appropriate cost adder

Voltage Suffix Key (a)	Options (b) (Factory Installed)	Options and Accessories (Field Installed)
A = Auto Voltage Input (standard) 120-277V (250) 200-277V (320-400) For units with hook, cord & plug, specify voltage: 1 = 120V 2 = 277V 3 = 208V 4 = 240V	C = Coated Lamp* Q = Quartz Standby *Coated lamps are recommended. Maximum effectiveness is achieved through the use of coated lamps that reduce glare.	Options & Accessories on page 188 Conical Lens - 22" & 25" Flat Acrylic Lens - 22" Acrylic Drop Lens - 22" (up to 400W) Aislelighter Lens - 25" (ZLL up to 400W only) Wire Guard - 16", 22" & 25" Full Wire Guard - 16", 22" & 25" Drop Lens w/Wire Guard - 22" A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ DMC-1 = Dimming Module Electronic Controllers on page 156 CX-100 = Passive infrared occupancy sensor on page 157 B-120E-P = 120V Power Supply Electronic Controllers on page 159 B-277E-P = 277V Power Supply Electronic Controllers on page 159

Example

ZLS	0	8	25	2	Q
Series	Mounting	Light Source	Wattage	Voltage	Options
ZLS = 16" Refractor	0 = Slide box	8 = Enclosed MH/PS* ☑	25 = 250W	2 = 277 Volt	Q = Quartz Standby

Mountings and Accessories



Slide Box

Ordering Code **0**



Hook, Cord & Plug

Ordering Code **2**



Designed as an easy-to-use lighting controller for a wide variety of applications, the **DMC-1** Dimming Control can control up to 50 fixtures simultaneously. Mountable on walls or surfaces, the dimmer is specifically designed to be unobtrusive when installed in any retail, commercial or industrial setting. Applications include any situation in which lighting levels need to be controlled in a continuously variable range.



Sensor

The DMC-1 Dimming control offers manual control of lighting levels with a rotary button from one control point, resulting in optimal lighting for the specific application while maximizing energy savings. Integrated pushbutton allows for on/off functionality. Controls any 0-10V dimming scheme for fluorescent and compatible with electronic HID up to 250V/6 amps. When used for dimming control, only up to 50 electronic HID 0-10V ballasts per channel can be operated. Internally fused.

Power Supply

The DMC-1 requires a 24V DC power supply to provide an adjustable 0 to 10V DC dimming signal to the electronic ballast.

Interface Options

The DMC-1 has a number of leads to incorporate a variety of controls including the LS-301 Light Harvester (see page 159), computer, etc.

Mounting Options

The module can be used as a surface or wall mount, manual-dimming module. It is typically mounted on a wall so the user can easily make adjustments.

DMC-1 Components



Features

In addition to ASIC technology that reduces the number of components while enhancing unit reliability, the CX-100 Passive Infrared Occupancy Sensor features Pulse Count processing that eliminates false offs without reducing sensitivity. Detection Signature Analysis eliminates false triggers and provides immunity to RFI and EMI. Multi-level Fresnel lens offers superior desktop occupancy detection that is signaled with a red LED. The CX-100 contains isolated relay with N/O and N/C outputs. Units are rated for 1 amp at 24V DC.

Adjustable Time Delays

An adjustable digital time delay functions through the highly accurate digital times built into the sensor. Programming is executed through DIP switches that can be set from 15 seconds through 30 minutes by two-minute increments.

Sensor Selection

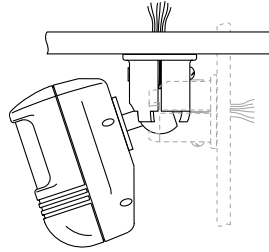
Sensors come standard with a dense wide angle lens (CX-100). A one-sided aisleway sensor (CX-100-4), a two-sided aisleway sensor (CX-100-3), or a long-range, one-sided aisleway sensor (CX-100-1) are optionally available. Mounting hardware is available for attaching sensors to a fixture reflector/refractor or building.

Dimensions

3.3"L x 3.3"W x 2.1"D
(83.8 mm x 83.8 mm x 53.3 mm)

Swivel Bracket

A swivel-mounting bracket (see drawing) allows the sensor to be angled for convenient corner mounting to wall or ceiling. Grooves on the bracket help to achieve desired angle for coverage. The swivel bracket comes standard with the CX Series Sensors.



Mounting Brackets

Used with mounting brackets MB2 and MB1.



This dual-element, temperature-compensated pyroelectric sensor operates in conjunction with the B120E-P/8277E-P Power Supply (see page 159), which provides 24V DC power to the sensor. A red LED indicates occupancy detection.

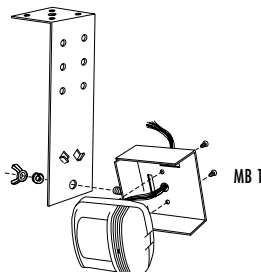


Ordering Information

Catalog Number	Description
CX-100	Passive Infrared Occupancy Sensor
MB 1	Fixture Mount Bracket
MB 2	Industrial Mount Bracket

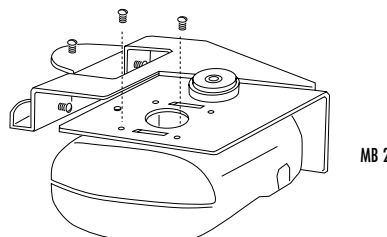
Fixture Mount Bracket

Ordering Code MB 1
Used for installing the sensors to ceilings or fixtures in industrial settings such as warehouses.



Industrial Mount Bracket

Ordering Code MB 2
Direct mount to acrylic and aluminum optics



CI-200
Round Motion Sensor



This dual-element, temperature-compensated pyroelectric sensor is ideal for areas requiring 360° sensor coverage. Typically used in open areas without racking, the low-profile sensor operates in conjunction with the B120E-P/8277E-P Power Supply (see page 159), which provides 24V DC power to the sensor. Installation of the low voltage (24V DC) system is simple using a two-pair twisted, low voltage wire between the bi-level module and the sensor. Multi-level Fresnel lens offers superior desktop occupancy detection that is signaled with a red LED. The CI-200 contains isolated relay with N/O and N/C outputs. Units are rated for 1 amp at 24V DC.



Features

In addition to ASIC technology that reduces the number of components while enhancing unit reliability, the CI-200 Round Motion Sensor features Pulse Count processing that eliminates false offs without reducing sensitivity. Detection Signature Analysis also eliminates false triggers and provides immunity to RFI and EMI.

Adjustable Time Delays

An adjustable digital time delay functions through the highly accurate digital times built into the sensor. Programming is executed through DIP switches that can be set from 15 seconds through 30 minutes by two-minute increments. Sensitivity is also programmed through the DIP switches, which have four settings from minimum to maximum.

Sensor Models

Sensing coverage is 1200 SF for the CI-200 module, while coverage is optimal at 500SF using the high-density lens for walking motion with the CI-200-1 module.

Dimensions

3.3" diameter x 2.2" deep (85 mm x 56 mm)

Extends approximately 0.36" from ceiling

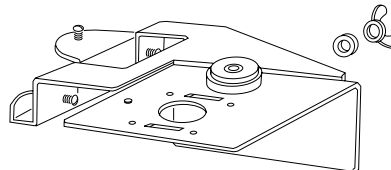
Mounting Brackets

Various mounting options are available including MB1 and MB2 mounting brackets.

Industrial Mount Bracket

Ordering Code **MB 2**

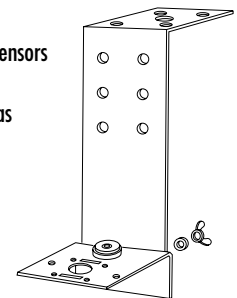
Direct mount to acrylic and aluminum optics



Fixture Mount Bracket

Ordering Code **MB 1**

Used for installing the sensors to ceilings or fixtures in industrial settings such as warehouses.



Operation

The LS-301 mounts on a ceiling and utilizes a spectral filtering system to measure daylight and electric light levels. A closed loop daylighting system, the LS-301 measures the total light level from daylight and electric light in the controlled area to adjust electric lighting levels. As the daylight contribution increases, the lights dim down. The photosensor utilizes sliding setpoint control, which responds to the different spatial distribution qualities of electric light and daylight. The LS-301 calculates the required light level for current daylight contribution based on two setpoints. One represents the target level when no daylight is present (night setpoint) and the other when significant daylight is present (day setpoint).

Features

- Provides precise control of lighting to maintain desired light level
- Extremely linear photocell response with greater than 1% accuracy
- Designed to measure light as the human eye perceives it, eliminating “overreporting” illumination levels provided by daylight
- Separate handheld remote controls for setup and occupant adjustment to prevent tampering
- Boosts energy savings by reducing maximum lamp output, often resulting in a 20% reduction or more compared with lights at full output
- Achieves lumen maintenance by holding target light level as lamp output decreases over time

Adjustment via Handheld Remote Control

All LS-301 adjustments are made with one of two handheld remotes. The LSR-301-S provides five buttons for initial set-up, which is easily completed by first raising or lowering electric light levels to desired levels, then programming this target level into the photosensor. The LSR-301-P provides three buttons for occupants to adjust light levels. With this optional tool, users can increase target light levels by up to 25% or reduce them to the lamp/ballast minimum level. Pressing the “Auto” button returns the control to programmed levels.

Applications

The LS-301 is designed to blend into its surroundings when installed in any environment. It provides one zone of daylighting control in a private office or classroom. In these applications, the LS-301 can be combined with an occupancy sensor. Often, it is possible for the LS-301 to share a single power pack with occupancy sensor(s).

LS-301
Dimming
Photosensor



This dual-element, temperature-compensated pyroelectric sensor operates in conjunction with the B120E-P/8277E-P Power Supply (see page 159), which provides 24V DC power to the sensor. A red LED indicates occupancy detection.

B-120E-P / B-277E-P
120V/277V Power Supply



Power supplies provide 24V DC operating voltage to sensors and the DMC-1 Dimming Control (see page 156). Low voltage leads are Teflon coated for use in plenum applications.



The heavy-duty **JB Series High Bay** is designed for commercial and industrial applications. Its high-efficiency reflector delivers consistent high light levels with low glare and little reflector maintenance.

55 °C, 65 °C
Ambient Rated

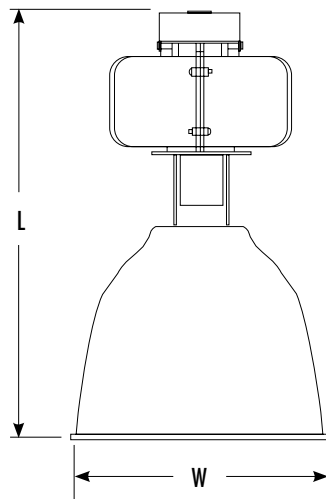


 Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length		Approx.	Ship Wt.
	Min.	Max.	Width	
JBM Series	19.8"	22.8"	14"	25 lbs.
JBR Series	20.1"	23.1"	16"	25 lbs.
JBL Series	22.1"	25.1"	22"	37 lbs.

Spacing Criteria: 7 - 1.7



Features

Housing

The heavy-duty die cast aluminum ballast housing comes standard in a white polyester powder coating. Consult factory for other color options.

Ballast

The ballast housing has heat-dissipating fins to extend ballast life and is rated at 65°C ambient (see table). All fixtures are supplied with a high power factor high reactance or constant wattage ballast.

Lamps

The JB Series is available with 175 - 1000W metal halide, 400W and 1000W super high output metal halide, 100 - 1000W pulse start metal halide or 250 - 1000W high pressure sodium lamps. Open rated fixtures are supplied with restricted sockets and open rated lamps.

Reflector

The 14", 16" and 22" aluminum reflectors produce a smooth, even beam pattern with an 80% efficiency rating. The 16" and 22" fixtures can be totally enclosed.

Adjustable Distribution

The patented spring-loaded Twist-N-Lock™ reflector attachment system allows for complete tool-free



Twist-N-Lock™ - Locked Twist-N-Lock™ - Open

reflector installation. Simply pull open the spring-loaded locking pins and snap-lock the reflector in place.

JB Series Ambient Temperature Ratings

Fixture Wattage	Open		Enclosed	
	55°C	65°C	55°C	65°C
175W	yes ¹	yes ¹	yes	yes
250W	yes ¹	yes ¹	yes	yes
320W	yes ¹	yes ¹	yes	yes
350W	yes ¹	yes ¹	yes	yes
400W	yes ¹	JBR/JBL	JBR/JBL	JBL only
		JBR/JBL	JBR/JBL	JBL only
450W	yes ¹	JBR/JBL	JBR/JBL	JBL only
		JBR/JBL	JBR/JBL	JBL only
1000W	yes ¹	JBL only	JBL only	JBL only
		JBL only	JBL only	JBL only

¹ HPS or Open Rated MH
² Glass Lens & Reduced Jacket Lamp Only

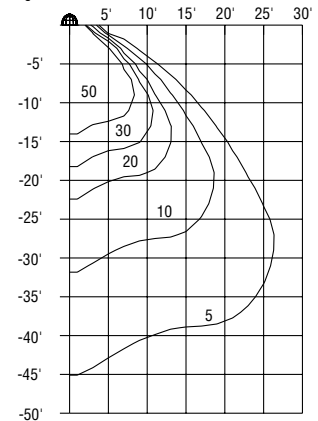
Mounting Options

A direct hard wire with slide box or hook, cord & plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. Also, the easy-access wiring chamber provides additional room for wiring make-up. Optional swivel pendant mount is available.

Photometric Data (Isofootcandle Plots)

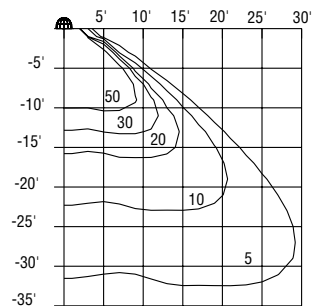
14" Reflector Spun Aluminum

Cat #: JBM0240, JBM0440 Certified Test Report: ITL44732
Lamp: 400W Clear MH IES File: EBM740M.IES
Lumens: 38,000 Spacing Criteria: 1.6
Socket Position: 5



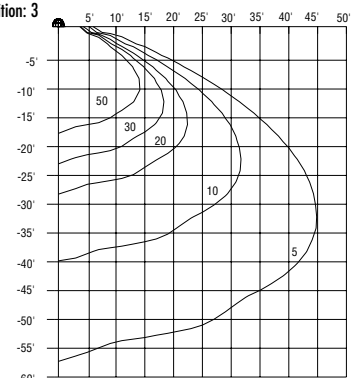
16" Reflector Spun Aluminum

Cat #: JBR0240, JBR0440 Certified Test Report: ITL04142
Lamp: 400W Clear MH IES File: EBR0440M.IES
Lumens: 38,000 Spacing Criteria: 2.5
Socket Position: 4



22" Reflector Spun Aluminum

Cat #: JBL0499 Certified Test Report: ITL45159
Lamp: 1000W Clear MH IES File: EBL499M.IES
Lumens: 110,000 Spacing Criteria: 1.9
Socket Position: 3



JB Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp Slide-Box	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Slide-Box	Open Rated Lamp Hook, Cord & Plug
JBM	14"	100W MH/PS	JBM0810-(a)L(b)*	JBM2810-(a)L(b)*		
		150W MH/PS	JBM0815-(a)L(b)*	JBM2815-(a)L(b)*		
		175W MH	JBM0417-(a)L(b)*	JBM2417-(a)L(b)*		
		175W MH/PS	JBM0817-(a)L(b)*	JBM2817-(a)L(b)*		
		200W MH/PS	JBM0820-(a)L(b)*	JBM2820-(a)L(b)*	JBM0920-(a)(b)	JBM2920-(a)(b)
		250W MH	JBM0425-(a)L(b)*	JBM2425-(a)L(b)*	JBM0225-(a)(b)	JBM2225-(a)(b)
		250W MH/PS	JBM0825-(a)L(b)*	JBM2825-(a)L(b)*	JBM0925-(a)(b)	JBM2925-(a)(b)
		320W MH/PS	JBM0832-(a)L(b)*	JBM2832-(a)L(b)*	JBM0932-(a)(b)	JBM2932-(a)(b)
		350W MH/PS	JBM0835-(a)L(b)*	JBM2835-(a)L(b)*	JBM0935-(a)(b)	JBM2935-(a)(b)
		400W MH	JBM0440-(a)L(b)*	JBM2440-(a)L(b)*	JBM0240-(a)(b)	JBM2240-(a)(b)
		400W MH/PS	JBM0840-(a)L(b)*	JBM2840-(a)L(b)*	JBM0940-(a)(b)	JBM2940-(a)(b)
		400W MH/MS	JBM0740-(a)L(b)*	JBM2740-(a)L(b)*		
		450W MH/PS	JBM0845-(a)L(b)*	JBM2845-(a)L(b)*	JBM0945-(a)(b)	JBM2945-(a)(b)
		250W HPS	JBM0525-(a)(b)	JBM2525-(a)(b)		
400W HPS	JBM0540-(a)(b)	JBM2540-(a)(b)				
JBR	16"	175W MH	JBR0417-(a)L(b)*	JBR2417-(a)L(b)*		
		175W MH/PS	JBR0817-(a)L(b)*	JBR2817-(a)L(b)*		
		200W MH/PS	JBR0820-(a)L(b)*	JBR2820-(a)L(b)*	JBR0920-(a)(b)	JBR2920-(a)(b)
		250W MH	JBR0425-(a)L(b)*	JBR2425-(a)L(b)*	JBR0225-(a)(b)	JBR2225-(a)(b)
		250W MH/PS	JBR0825-(a)L(b)*	JBR2825-(a)L(b)*	JBR0925-(a)(b)	JBR2925-(a)(b)
		320W MH/PS	JBR0832-(a)L(b)*	JBR2832-(a)L(b)*	JBR0932-(a)(b)	JBR2932-(a)(b)
		350W MH/PS	JBR0835-(a)L(b)*	JBR2835-(a)L(b)*	JBR0935-(a)(b)	JBR2935-(a)(b)
		400W MH	JBR0440-(a)L(b)*	JBR2440-(a)L(b)*	JBR0240-(a)(b)	JBR2240-(a)(b)
		400W MH/PS	JBR0840-(a)L(b)*	JBR2840-(a)L(b)*	JBR0940-(a)(b)	JBR2940-(a)(b)
		400W MH/MS	JBR0740-(a)L(b)*	JBR2740-(a)L(b)*		
		450W MH/PS	JBR0845-(a)L(b)*	JBR2845-(a)L(b)*	JBR0945-(a)(b)	JBR2945-(a)(b)
		250W HPS	JBR0525-(a)(b)	JBR2525-(a)(b)		
		400W HPS	JBR0540-(a)(b)	JBR2540-(a)(b)		
		JBL	22"	400W MH	JBL0440-(a)L(b)*	JBL2440-(a)L(b)*
400W MH/PS	JBL0840-(a)L(b)*			JBL2840-(a)L(b)*	JBL0940-(a)(b)	JBL2940-(a)(b)
450W MH/PS	JBL0845-(a)L(b)*			JBL2845-(a)L(b)*	JBL0945-(a)(b)	JBL2945-(a)(b)
750W MH/PS	JBL0875-(a)L(b)*			JBL2875-(a)L(b)*		
1000W MH	JBL0499-(a)L(b)*			JBL2499-(a)L(b)*	JBL0299-(a)(b)	JBL2299-(a)(b)
1000W MH/PS	JBL0899-(a)L(b)*			JBL2899-(a)L(b)*		
1000W MH/MS	JBL0799-(a)L(b)*			JBL2799-(a)L(b)*		
1000W HPS	JBL0599-(a)(b)			JBL2599-(a)(b)		

* Flat lens assembly included on all metal halide fixtures

Mountings and Accessories



Slide Box

Ordering Code 0



Hook, Cord & Plug

Ordering Code 2



Swivel Pendant

Accessory Code SP-18



Distributor Pak™

Order Code @
Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
@ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) M5 = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt For hook, cord & plug, specify voltage: 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	Fusing (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V Lens Option K = Conical Lens Assembly (16" & 22" only) L = Flat Lens Assembly D = Drop Lens Assembly (16" & 22" only) Quartz Standby (includes Quartz Lamp) Q = Quartz Standby Other C = Coated Lamp H = High-2-Low Option (400 - 1000W MH, 320 - 400W MH/PS) †† G = Totally Enclosed Dust Tight (16" & 22" only) W = Wet Location (16" & 22" only) †† Must be used with High-2-Low, 190	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ SC-6 = Ballast/Reflector Safety Chain 6' SP-18 = Swivel Pendant Mount 3/4" x 18" (other lengths available upon request) See page 188 for complete listing of lens and guard options.

Wattage Range:
175 to 1000 W



Lamp Included

The heavy-duty JC Series is designed for commercial and industrial applications. Its high-efficiency, hard anodized faceted reflector delivers consistent high light levels with low glare and little reflector maintenance.

55 °C, 65 °C
Ambient Rated

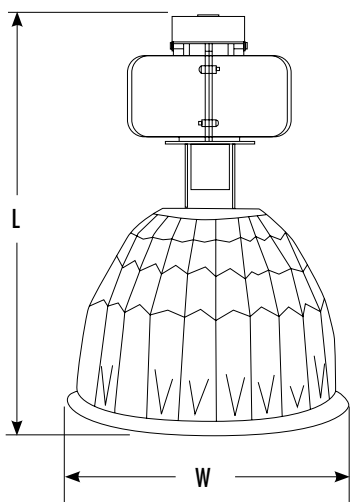


UL Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length		Approx. Width	Ship Wt.
	Min.	Max.		
JCS Series	20.1"	23.1"	17"	24 lbs.
JCL Series	20.3"	23.3"	22"	38 lbs.

Spacing Criteria: .7 - 1.8



Features

Housing

The heavy-duty, die cast aluminum ballast housing comes standard in a white polyester powder coating. Consult factory for other color options.

Ballast

The ballast housing has heat-dissipating fins to extend ballast life and is rated at 65°C ambient (see table). All fixtures are supplied with a high power factor high reactance or constant wattage ballast.

Lamps

The JC Series is available with 175 - 1000W metal halide, 400W and 1000W super high output metal halide, 175 - 1000W pulse start metal halide or 250 - 1000W high-pressure sodium lamps. Open rated fixtures are supplied with restricted sockets and open rated lamps.

Reflector

The 17" and 22" hard anodized faceted reflector resists dirt buildup, cleans easily with water and provides high light levels with very low glare.

Adjustable Distribution

The patented spring-loaded Twist-N-Lock™ reflector attachment system allows for complete tool-free



Twist-N-Lock™ - Locked Twist-N-Lock™ - Open

reflector installation. Simply pull open the spring-loaded locking pins and snap-lock the reflector in place.

JC Series Ambient Temperature Ratings

Fixture Wattage	Open		Enclosed	
	55°C	65°C	55°C	65°C
175W	yes ¹	yes ¹	yes	yes
250W	yes ¹	yes ¹	yes	yes
320W	yes ¹	yes ¹	yes	yes
350W	yes ¹	yes ¹	yes	yes
400W	yes ¹	JBR/JBL	JBR/JBL	JBL only
		JBR/JBL	JBR/JBL	JBL only
450W	yes ¹	JBR/JBL	JBR/JBL	JBL only
		JBR/JBL	JBR/JBL	JBL only
1000W	yes ¹	JBL only	JBL only	JBL only
		JBL only	JBL only	JBL only

¹ HPS or Open Rated MH

² Glass Lens & Reduced Jacket Lamp Only

Mounting Options

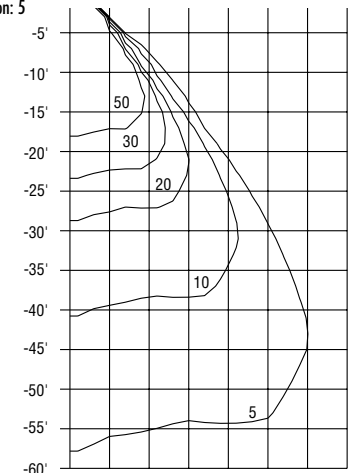
A direct hard wire with slide box or a hook, cord & plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. Also, the easy-access wiring chamber provides additional room for wiring make-up. Optional swivel pendant mount is available.

Photometric Data

(Isofootcandle Plots)

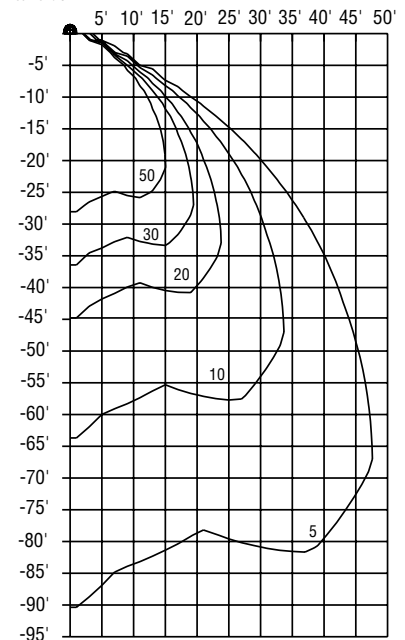
17" Faceted

Cat #: JCS0240, JCS0440 Certified Test Report: 35-174981-00
Lamp: 400W Clear MH IES File: ECS440M.IES
Lumens: 38,000 Spacing Criteria: 1.5 max.
Socket Position: 5



22" Faceted

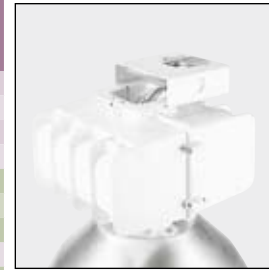
Cat #: JCL0499 Certified Test Report: 35-174989-00
Lamp: 1000W Clear MH IES File: ECL499M.IES
Lumens: 110,000 Spacing Criteria: 1.5 max.
Socket Position: 5



JC Series Ordering Information

Mountings and Accessories

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp Slide-Box	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Slide-Box	Open Rated Lamp Hook, Cord & Plug
JCS	17"	175W MH	JCS0417-(a)L(b)*	JCS2417-(a)L(b)*		
		ⓔ 175W MH/PS	JCS0817-(a)L(b)*	JCS2817-(a)L(b)*		
		ⓔ 200W MH/PS	JCS0820-(a)L(b)*	JCS2820-(a)L(b)*		
		250W MH	JCS0425-(a)L(b)*	JCS2425-(a)L(b)*	JCS0225-(a)(b)	JCS2225-(a)(b)
		ⓔ 250W MH/PS	JCS0825-(a)L(b)*	JCS2825-(a)L(b)*	JCS0925-(a)(b)	JCS2925-(a)(b)
		ⓔ 320W MH/PS	JCS0832-(a)L(b)*	JCS2832-(a)L(b)*	JCS0932-(a)(b)	JCS2932-(a)(b)
		ⓔ 350W MH/PS	JCS0835-(a)L(b)*	JCS2835-(a)L(b)*	JCS0935-(a)(b)	JCS2935-(a)(b)
		400W MH	JCS0440-(a)L(b)*	JCS2440-(a)L(b)*	JCS0240-(a)(b)	JCS2240-(a)(b)
		ⓔ 400W MH/PS	JCS0840-(a)L(b)*	JCS2840-(a)L(b)*	JCS0940-(a)(b)	JCS2940-(a)(b)
		ⓔ 400W MH/MS	JCS0740-(a)L(b)*	JCS2740-(a)L(b)*		
		ⓔ 450W MH/PS	JCS0845-(a)L(b)*	JCS2845-(a)L(b)*	JCS0945-(a)(b)	JCS2945-(a)(b)
		250W HPS	JCS0525-(a)(b)	JCS2525-(a)(b)		
400W HPS	JCS0540-(a)(b)	JCS2540-(a)(b)				
JCL	22"	ⓔ 175W MH/PS	JCL0817-(a)L(b)*	JCL2817-(a)L(b)*	JCL0917-(a)(b)	JCL2917-(a)(b)
		ⓔ 320W MH/PS	JCL0832-(a)L(b)*	JCL2832-(a)L(b)*	JCL0932-(a)(b)	JCL2932-(a)(b)
		ⓔ 350W MH/PS	JCL0835-(a)L(b)*	JCL2835-(a)L(b)*	JCL0935-(a)(b)	JCL2935-(a)(b)
		400W MH	JCL0440-(a)L(b)*	JCL2440-(a)L(b)*	JCL0240-(a)(b)	JCL2240-(a)(b)
		ⓔ 400W MH/PS	JCL0840-(a)L(b)*	JCL2840-(a)L(b)*	JCL0940-(a)(b)	JCL2940-(a)(b)
		ⓔ 400W MH/MS	JCL0740-(a)L(b)*	JCL2740-(a)L(b)*		
		ⓔ 450W MH/PS	JCL0845-(a)L(b)*	JCL2845-(a)L(b)*	JCL0945-(a)(b)	JCL2945-(a)(b)
		ⓔ 750W MH/PS	JCL0875-(a)L(b)*	JCL2875-(a)L(b)*		
		1000W MH	JCL0499-(a)L(b)*+	JCL2499-(a)L(b)*+	JCL0299-(a)(b)	JCL2299-(a)(b)
		ⓔ 1000W MH/PS	JCL0899-(a)L(b)*+	JCL2899-(a)L(b)*+		
		ⓔ 1000W MH/MS	JCL0799-(a)L(b)*+	JCL2799-(a)L(b)*+		
		400W HPS	JCL0540-(a)(b)	JCL2540-(a)(b)		
		1000W HPS	JCL0599-(a)(b)	JCL2599-(a)(b)		



Slide Box
Ordering Code 0



Hook, Cord & Plug
Ordering Code 2



Swivel Pendant
Accessory Code SP-18

* Flat lens assembly included on all metal halide fixtures

+ Reduced Jacketed Lamp required to enclose

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
5 = 480 Volt	C = Coated Lamp	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™
M = Multi-tap (tapped @ 277V)	G = Totally Enclosed Dust Tight (16" & 22" only)	SC-6 = Ballast/Reflector Safety Chain 6'
M5 = 120 - 480V 400W MH only (tapped @ 480V)	H = High-2-Low Option (400 - 1000W MH, 320 - 400W MH/PS) ††	SP-18 = Swivel Pendant Mount 3/4" x 18" (other lengths available upon request)
	L = Flat Lens Assembly	See page 188 for complete listing of lens and guard options.
For hook, cord & plug, specify voltage:	Fusing	
1 = 120V*	(x)F = Single - Specify voltage (x):	
2 = 277V*	1 = 120V; 2 = 277V	
3 = 208V*	(x)J = Dual - Specify voltage (x):	
4 = 240V*	3 = 208V; 4 = 240V; 5 = 480V	
5 = 480V	Q = Quartz Standby	
*Supplied with Multi-tap ballasts	W = Wet Location (16" & 22" only)	
	†† Must be used with High-2-Low, 190	

Example

JCS	0	8	25	2	Q
Series	Mounting	Light Source	Wattage	Voltage	Options
JCS = 17" Reflector	0 = Slide box	4 = MH	25 = 250W	2 = 277 Volt	Q = Quartz Standby

Wattage Range:
50 to 175 W



Lamp Included

The high-performance optics of our prismatic refractor luminaires, combined with the heat-dissipating cooling fins of the cast aluminum ballast housing, make the JLC Series perfect for low-mount industrial plants, warehouses, retail stores, showrooms and outlet stores. Available in versatile mountings.

40°C, 55°C

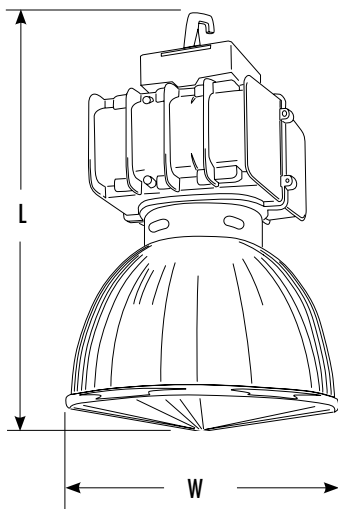
Ambient Rated



Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Approx. Ship Wt.
JLC Series	16.25"	12.375"	12 lbs.



Features

Housing

Cast-aluminum housing is designed with exterior fins to dissipate heat. Polyester powder coating is standard in white. Consult factory for other color options.

Lamps

The JLC Series comes standard with a clear medium based lamp.

Reflector

The clear acrylic prismatic refractor provides over 90% lighting efficiency.

Lens

A variety of lens types are available: flat acrylic prismatic, conical and clear domed. Lens is secured to housing using an aluminum ring with a spring latch.

Options

The ballast housing can be remotely mounted. The optical assembly can be pendant-mounted using SOW cord, spiral cord or 1/2" pipe. Specify length required in 6" increments.

Mounting Options

Several mountings are available. The ballast slide box has an adjustable hook assembly for fixture balancing. The easy-access wiring compartment provides ample room for the primary connections to the ballast.

Remote Shade Assemblies

Three additional mountings are available for this versatile Mini High Bay, including the rigid pendant, cord pendant and cord spiral pendant. All can be mounted to a ballast pod or as a remote fixture. (Remote Shade Assembly information on 286. Remote Ballast information on 284.)

Photometric Data

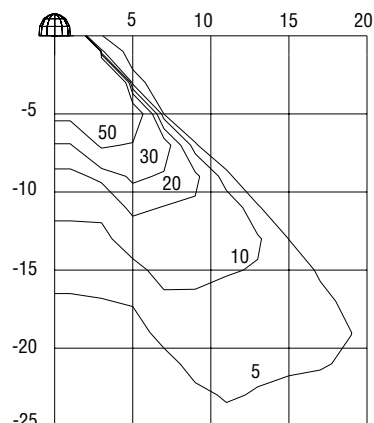
(Isofootcandle Plots)

12" Prismatic

Cat #: JLC0217
Lamp: 175W Coated MH/Open Burn
Lumens: 15,000
Certified Test Report: ITL41131
IES File: JLC417D.IES
Spacing Criteria: 2.4

JLC Series Ambient Temperature Ratings

Fixture Wattage	Open		Enclosed	
	40°C	55°C	40°C	55°C
100W	yes	yes	yes	no
150W	yes	yes	no	no
175W	yes	yes	no	no



JLC Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp	Open Rated Lamp
JLC	12"	ⓔ 50W MH/PS	JLC(**)805-(a)(b)	JLC(**)905-(a)(b)
		ⓔ 70W MH/PS	JLC(**)807-(a)(b)	JLC(**)907-(a)(b)
		ⓔ 100W MH/PS	JLC(**)810-(a)(b)	JLC(**)910-(a)(b)
		ⓔ 150W MH/PS		JLC(**)915-(a)(b)
		175W MH		JLC(**)217-(a)(b)
		35W HPS	JLC(**)503-1(b)	
		50W HPS	JLC(**)505-(a)(b)	
		70W HPS	JLC(**)507-(a)(b)	
		100W HPS	JLC(**)510-(a)(b)	
		150W HPS	JLC(**)515-(a)(b)	

(**) **Mounting:** Indicate mounting in space (**)

Description	No Mount	Hook, Cord and Plug	Cord Pendant* Mount	Spiral Cord* Pendant Mount	Rigid Pendant* Mount	Swivel Pendant* Mount
Slide Box	0	2	6	7	8	9

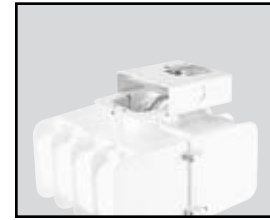
*Specify Pendant Mount Length per options (b) below

Voltage (a)	Options (b) (Factory Installed)	Mounting Options and Accessories: (Field Installed)
5 = 480 Volt 175W only M = Multi-tap (tapped @ 277V) For hook, cord & plug, specify voltage: 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V (175W only) *Supplied with Multi-tap ballasts	C = Coated Lamp Coated lamps are recommended. Maximum effectiveness is achieved through the use of coated lamps that reduce glare. <u>Lens Options</u> L = Flat Acrylic Lens (100W max) K = Conical Lens (100W max) D = Dome Lens (100W max) <u>Fusing</u> (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V Q = Quartz standby <u>Pendant Mount Lengths</u> 0(xx) = xx" (please order in increments of 6" up to 60") Examples: 018 = 18" 024 = 24"	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ SC-6 = Ballast/Reflector Safety Chain 6'

Example

JLC	0	5	05	2	C
Series	Mounting	Light Source	Wattage	Voltage	Options
JLC = 12" Reflector	0 = Slide box	5 = HPS	05 = 50W	2 = 277 Volt	C = Coated Lamp

Mountings and Accessories



Slide Box
Ordering Code **0**



Hook, Cord & Plug
Ordering Code **2**



Cord Pendant
Ordering Code **6**



Spiral Cord Pendant
Ordering Code **7**



Rigid Pendant
Ordering Code **8**



Swivel Pendant
Ordering Code **9**

Wattage Range:
100 to 1000 W



Lamp Included

The high-performance optics of this prismatic refractor luminaire, combined with the heat-dissipating cooling fins of the white cast aluminum ballast housing, make the **JL Series** perfect for industrial plants, warehouses, gymnasiums, retail stores and showrooms. An Aislelighter lens option is ideal for merchandising and floor lighting.

40°C, 55°C
Ambient Rated

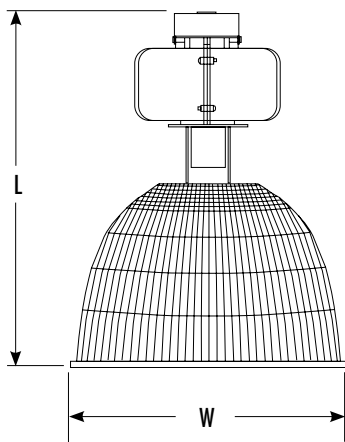


UL Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length		Approx. Width	Ship Wt.
	Min.	Max.		
JLS Series	19.1"	22.1"	16"	25 lbs.
JLM Series	21.7"	24.7"	22"	28 lbs.
JLL Series	22.1"	25.1"	25"	30 lbs.

Spacing Criteria: .9 - 2.0



Features

Refractor

The JL Series refractor is available in 16", 22" and 25" diameters. The clear acrylic prismatic refractor provides over 90% efficiency and approximately 15 - 20% uplight.

Ballast

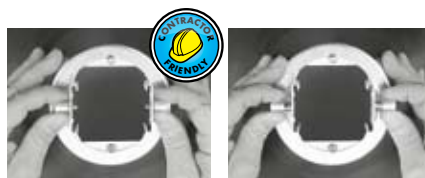
All fixtures are supplied with a high power factor, high reactance or constant wattage ballast in multi-tap or 480 volt.

Lamps

Open rated fixtures are supplied with restricted sockets and open rated lamps. The 320W, 350W and 400W lamps cannot be enclosed in the JLS Series.

Adjustable Distribution

The patented spring-loaded Twist-N-Lock™ reflector attachment system allows for complete tool-free reflector installation. Simply pull open the spring-loaded locking pins and snap-lock the reflector in place.



Twist-N-Lock™ - Locked

Twist-N-Lock™ - Open

Aislelighter

When lighting long, narrow aisles stocked with merchandise, the Aislelighter lens option delivers uplight in a 360° distribution. The vertical surface light is ideal for merchandising and customer traffic (specify option A).

JL Series Ambient Temperature Ratings

Fixture Wattage	Open		Enclosed	
	40°C	55°C	40°C	55°C
175W	yes ¹	yes ¹	yes	yes
250W	yes ¹	yes ¹	yes	yes
320W	yes ¹	yes ¹	yes	yes
			JLM/JLL	JLL only
350W	yes ¹	yes ¹	yes	yes
			JLM/JLL	JLL only
400W	yes ¹	yes ¹	yes	yes
			JLM/JLL	JLL only
450W				
1000W	n/a	n/a	n/a	n/a

¹ HPS or Open Rated MH

Mounting Options

A direct hard wire with slide box or a hook, cord & plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. The easy-access wiring chamber provides additional room for wiring make-up. Optional swivel pendant mount is available.

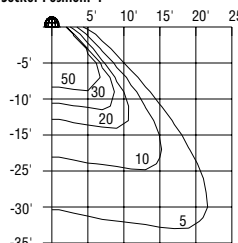
Photometric Data

(Isofootcandle Plots)

16" Prismatic

Cat #: JLS0225, JLS0425
Lamp: 250W Coated MH
Lumens: 25,000 Spacing Criteria: 2.2
Socket Position: 4

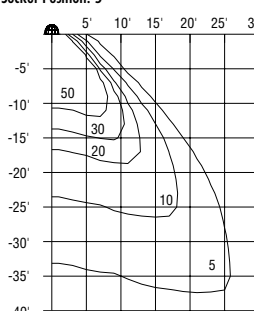
Certified Test Report: ITL36501
IES File: ELS425FM.IES



22" Prismatic

Cat #: JLM0240, JLM0440
Lamp: 400W Coated MH
Lumens: 36,000 Spacing Criteria: 2.0
Socket Position: 5

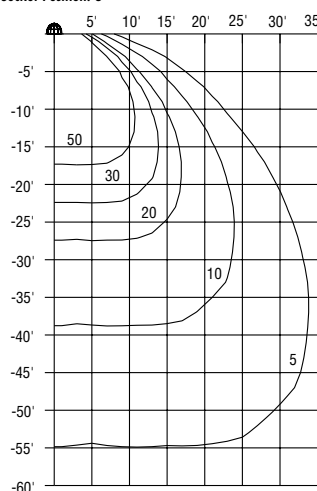
Certified Test Report: ITL37107
IES File: ELM440FM.IES



25" Prismatic

Cat #: JLL0499
Lamp: 1000W Coated MH
Lumens: 107,000
Socket Position: 3

Certified Test Report: ITL41525
IES File: ELL0499F.IES
Spacing Criteria: 1.7

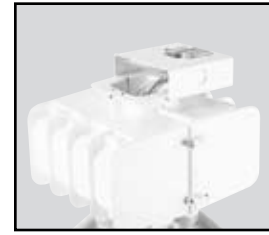


JL Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp; Slide-Box	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Slide-Box	Open Rated Lamp Hook, Cord & Plug		
JLS	16"	Ⓔ 100W MH/PS	JLS0810-(a)L(b)*	JLS2810-(a)L(b)*				
		Ⓔ 150W MH/PS	JLS0815-(a)L(b)*	JLS2815-(a)L(b)*				
		175W MH	JLS0417-(a)L(b)*	JLS2417-(a)L(b)*				
		Ⓔ 175W MH/PS	JLS0817-(a)L(b)*	JLS2817-(a)L(b)*				
		Ⓔ 200W MH/PS	JLS0820-(a)L(b)*	JLS2820-(a)L(b)*	JLS0920-(a)(b)	JLS2920-(a)(b)		
		250W MH	JLS0425-(a)L(b)*	JLS2425-(a)L(b)*	JLS0225-(a)(b)	JLS2225-(a)(b)		
		Ⓔ 250W MH/PS	JLS0825-(a)L(b)*	JLS2825-(a)L(b)*	JLS0925-(a)(b)	JLS2925-(a)(b)		
		Ⓔ 320W MH/PS			JLS0932-(a)(b)	JLS2932-(a)(b)		
		Ⓔ 350W MH/PS			JLS0935-(a)(b)	JLS2935-(a)(b)		
		400W MH			JLS0240-(a)(b)	JLS2240-(a)(b)		
		Ⓔ 400W MH/PS			JLS0940-(a)(b)	JLS2940-(a)(b)		
		150W HPS	JLS0515-(a)(b)	JLS2515-(a)(b)				
		250W HPS	JLS0525-(a)(b)	JLS2525-(a)(b)				
400W HPS	JLS0540-(a)(b)	JLS2540-(a)(b)						
JLM	22"	Ⓔ 250W MH/PS	JLM0825-(a)L(b)*	JLM2825-(a)L(b)*	JLM0925-(a)(b)	JLM2925-(a)(b)		
		Ⓔ 320W MH/PS	JLM0832-(a)L(b)*	JLM2832-(a)L(b)*	JLM0932-(a)(b)	JLM2932-(a)(b)		
		Ⓔ 350W MH/PS	JLM0835-(a)L(b)*	JLM2835-(a)L(b)*	JLM0935-(a)(b)	JLM2935-(a)(b)		
		400W MH	JLM0440-(a)L(b)*	JLM2440-(a)L(b)*	JLM0240-(a)(b)	JLM2240-(a)(b)		
		Ⓔ 400W MH/PS	JLM0840-(a)L(b)*	JLM2840-(a)L(b)*	JLM0940-(a)(b)	JLM2940-(a)(b)		
		Ⓔ 400W MH/MS	JLM0740-(a)L(b)*	JLM2740-(a)L(b)*				
		Ⓔ 450W MH/PS			JLM0945-(a)(b)	JLM2945-(a)(b)		
		400W HPS	JLM0540-(a)(b)	JLM2540-(a)(b)				
		JLL	25"	Ⓔ 350W MH/PS	JLL0835-(a)L(b)*	JLL2835-(a)L(b)*	JLL0935-(a)(b)	JLL2935-(a)(b)
				400W MH	JLL0440-(a)K(b)*	JLL2440-(a)K(b)*	JLL0240-(a)(b)	JLL2240-(a)(b)
Ⓔ 400W MH/PS	JLL0840-(a)L(b)*			JLL2840-(a)L(b)*	JLL0940-(a)(b)	JLL2940-(a)(b)		
Ⓔ 400W MH/MS	JLL0740-(a)K(b)*			JLL2740-(a)K(b)*				
Ⓔ 450W MH/PS					JLL0945-(a)(b)	JLL2945-(a)(b)		
1000W MH †					JLL0299-(a)(b)	JLL2299-(a)(b)		
400W HPS	JLL0540-(a)(b)			JLL2540-(a)(b)				
1000W HPS †	JLL0599-(a)(b)	JLL2599-(a)(b)						

* Flat lens assembly included on all metal halide fixtures
 † 25°C Ambient, Open bottom only

Mountings and Accessories



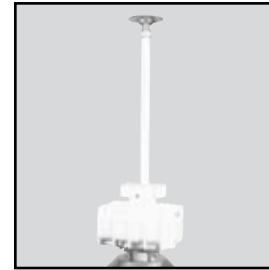
Slide Box

Ordering Code 0



Hook, Cord & Plug

Ordering Code 2



Swivel Pendant

Accessory Code SP-18



Distributor Pak™

Order Code @
 Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
@ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) MS = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt <i>For hook, cord & plug, specify voltage:</i> 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	A = Aislelighter Lens (25" only) C = Coated Lamp D = Drop Lens Assembly (16" & 22" only) G = Totally Enclosed Dust Tight (16" & 22" only) H = High-2-Low Option (400 - 1000W MH, 320 - 400W MH/PS) †† K = Conical Lens Assembly L = Flat Lens Assembly W = Wet Location (16" & 22" only) Fusing (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V Q = Quartz Standby	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ SC-6 = Ballast/Reflector Safety Chain 6' SP-18 = Swivel Pendant Mount 3/4" x 18" (other lengths available upon request) See page 188 for complete listing of lens and guard options.

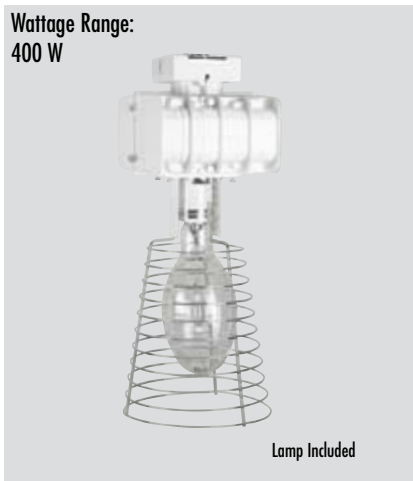
†† Must be used with High-2-Low, 190

Example

JLS	0	8	10	2	C
Series	Mounting	Light Source	Wattage	Voltage	Options
JLS = 16" Reflector	0 = Slide box	8 = MH/PS Ⓔ	10 = 100W	2 = 277 Volt	C = Coated lamp

Call 800.523.3602 • Fax 215.831.7703 • www.simkar.com

Wattage Range:
400 W



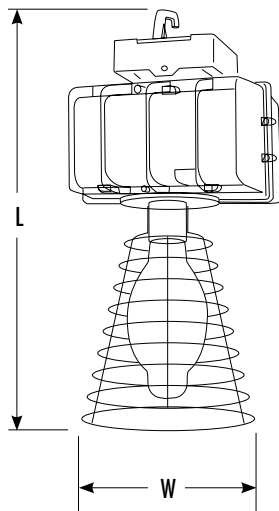
The JTC Series Temp-Lite™ Jobsite Fixture replaces approximately two to three strings of temporary lights and can be converted to a permanent standard high bay/low bay with the addition of the desired optical assembly.

55 °C, 65 °C
Ambient Rated

 Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Approx. Ship Wt.
JTC Series	24.5"	9.25"	24 lbs.



Features

Housing

Unlike ballast housings made from sheet metal, the JTC Series die-cast aluminum housing is designed for construction sites with abusive environments.

Lamps

Metal halide luminaries are available in 400W only. A strong, plated steel cage shields lamps from damage while allowing light distribution for a full 360°. Open rated fixtures are supplied with restricted sockets and open rated lamps.

Ballast

Supplied standard with a multi-tap or 5-tap CWA ballast, the Temp-Lite™ can be easily hooked up to any available voltage.

Ratings

The JTC Series retains its UL listing when converted to a standard high or low bay optical assembly. The fixture also conforms to OSHA standards for light levels.

Mounting Options

A direct hard wire with slide box or a hook, cord & plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. The easy-access wiring chamber provides additional room for wiring make-up.

Packaging

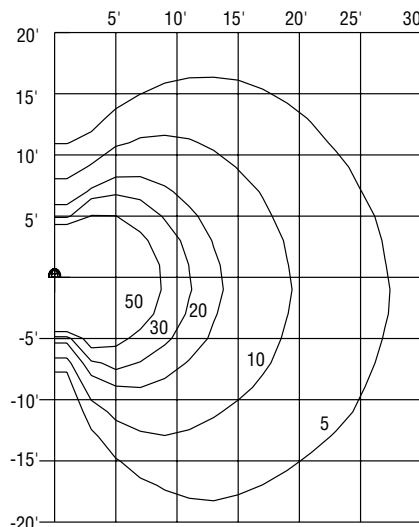
When specified, units are packaged in a Distributor-Pak™ or in two separate boxes for easy inventory and shipping.

Photometric Data

(Isofootcandle Plots)

JTC TempLite™

Cat #: JTC2440
Lamp: 400W Clear MH
Lumens: 38,000
Certified Test Report: B2013
IES File: ETC440.IES

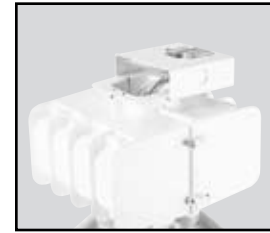


JTC Series Ordering Information

Series	Wattage Lamp	Enclosed Rated Lamp Slide Box	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Slide-Box	Open Rated Lamp Hook, Cord & Plug
JTC	400W MH Distributor Pak™	JTC0440-(a)(b) JTC0440@(a)(b)	JTC2440-(a)(b) JTC2440@(a)(b)	JTC0240-(a)(b) JTC0240@(a)(b)	JTC2240-(a)(b) JTC2240@(a)(b)

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Replacement Guard
@ = Distributor Pak™ (optics, pod and lamp in one carton)	<p>CP3 = 120 Volt (Straight Blade)</p> <p>M = Multi-tap (tapped @ 277V)</p> <p>M5 = 120 - 480V 400W MH only (tapped @ 480V)</p> <p>5 = 480 Volt</p> <p><i>For hook, cord & plug, specify voltage:</i></p> <p>1 = 120V*</p> <p>2 = 277V*</p> <p>3 = 208V*</p> <p>4 = 240V*</p> <p>5 = 480V</p> <p><i>*Supplied with Multi-tap ballasts</i></p>	<p>C = Coated Lamp (Recommended)</p> <p>Fusing</p> <p>(x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V</p> <p>(x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V</p>	<p>LG = Cylindrical Guard with Adjustable Top Steel Clamp</p>

Mountings and Accessories



Slide Box
Ordering Code **0**



Hook, Cord & Plug
Ordering Code **2**



Distributor Pak™
Order Code @
Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Wattage Range:
250 to 400 W



Lamp Included

The economical **YB Series** fixture is designed for commercial and industrial applications. Its Y-Pod design is aesthetically pleasing, with no exposed components or vents that trap contaminants. Its high-efficiency reflector delivers consistent high light levels with even beam patterns, low glare and minimal reflector maintenance.

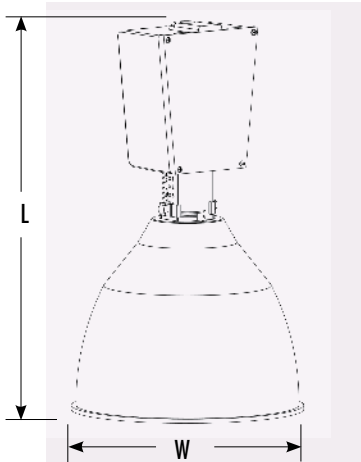
35 °C Ambient Rated



UL Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length		Fixture	Ceiling	Height
	Min.	Max.	Width	Width	
YBM Series	23"	28"	14"	20' - 30'	
YBR Series	25.3"	26.3"	16"	20' - 30'	
YBL Series	25.3"	26.3"	22.4"	Over 30'	



Features

Housing

The heavy-duty die cast aluminum ballast housing has heat-dissipating fins (refer to photo on next page) to extend ballast life that is rated at 65°C ambient. Ballast pod is supplied in a white polyester powder coat finish. Cover attaches to housing with four screws for easy internal access. Segmented ballast compartment for heat sink. Center-balanced ballast and components ensure unit hangs straight. Unique Y-pod design has a minimal horizontal surface, which reduces collection of airborne particles to retain new appearance.

Ballast

All fixtures are supplied with a high power factor constant wattage ballast in multi-tap or 480 volt.

Lamps

The YB Series is available with 250-400W metal halide, 400W super high output metal halide, 250-400W pulse start metal halide or 250-400W high-pressure sodium lamps. Open rated fixtures are supplied with restricted sockets and open rated lamps.

Reflector

The 14", 16" and 22" aluminum reflectors produce a smooth, even beam pattern with an 80% efficiency rating. Contoured facets and a rounded body result in smooth, even beam patterns. Reflector design allows for ventilation, which cleans contaminants from system.

Adjustable Distribution

The patented spring-loaded Twist-N-Lock™ reflector



Twist-N-Lock™ - Locked Twist-N-Lock™ - Open

attachment system allows for complete tool-free reflector installation and seven-optic position adjustment. Simply pull open the spring-loaded locking pins and snap-lock the reflector in place.

Mounting Options

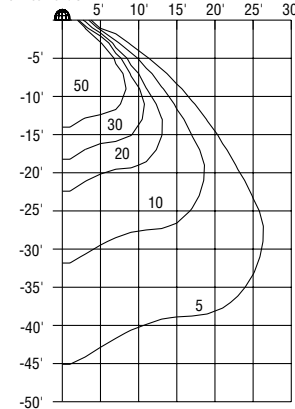
A direct hard wire or hook, cord & plug mounting is available. A 2/3" threaded conduit hub is standard. The hook, cord and plug option is furnished with a die-cast aluminum Safety Snap-Lock hook that has 3/4" NPT threads, 6' SOW16/3 cord and NEMA Twist + Lock plug.

Photometric Data

(Isofootcandle Plots)

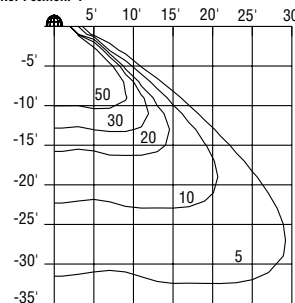
14" Reflector Spun Aluminum

Cat #: YBM0240, YBM0440 Certified Test Report: ITL44732
Lamp: 400W Clear MH IES File: EBM740M.IES
Lumens: 38,000 Spacing Criteria: 1.6
Socket Position: 5



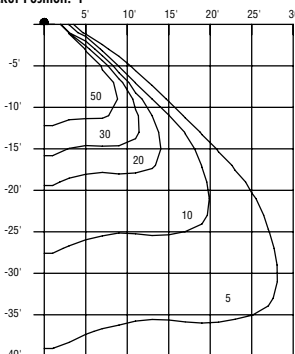
16" Reflector Spun Aluminum

Cat #: YBR0240, YBR0440 Certified Test Report: ITL04142
Lamp: 400W Clear MH IES File: EBR0440M.IES
Lumens: 38,000 Spacing Criteria: 2.5
Socket Position: 4



22" Reflector Spun Aluminum

Cat #: YBL0240, YBL0440 Certified Test Report: ITL06534
Lamp: 400W Clear MH IES File: EBR0440M.IES
Lumens: 38,000 Spacing Criteria: 2.0
Socket Position: 4



YB Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp Conduit Mount	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Conduit Mount	Open Rated Lamp Hook, Cord & Plug
YBM	14"	250 MH	YBM0425-(a)L(b)*	YBM2425-(a)L(b)*	YBM0225-(a)(b)	YBM2225-(a)(b)
		ⓐ 250 MH/PS	YBM0825-(a)L(b)*	YBM2825-(a)L(b)*	YBM0925-(a)(b)	YBM2925-(a)(b)
		ⓐ 320 MH/PS	YBM0832-(a)L(b)*	YBM2832-(a)L(b)*	YBM0932-(a)(b)	YBM2932-(a)(b)
		ⓐ 350 MH/PS	YBM0835-(a)L(b)*	YBM2835-(a)L(b)*	YBM0935-(a)(b)	YBM2935-(a)(b)
		400 MH	YBM0440-(a)L(b)*	YBM2440-(a)L(b)*	YBM0240-(a)(b)	YBM2240-(a)(b)
		400 MH/MS	YBM0740-(a)L(b)*	YBM2740-(a)L(b)*		
		ⓐ 400 MH/PS	YBM0840-(a)L(b)*	YBM2840-(a)L(b)*	YBM0940-(a)(b)	YBM2940-(a)(b)
		250 HPS	YBM0525-(a)(b)	YBM2525-(a)(b)		
		400 HPS	YBM0540-(a)(b)	YBM2540-(a)(b)		
		YBR	16"	250 MH	YBR0425-(a)L(b)*	YBR2425-(a)L(b)*
ⓐ 250 MH/PS	YBR0825-(a)L(b)*			YBR2825-(a)L(b)*	YBR0925-(a)(b)	YBR2925-(a)(b)
ⓐ 320 MH/PS	YBR0832-(a)L(b)*			YBR2832-(a)L(b)*	YBR0932-(a)(b)	YBR2932-(a)(b)
ⓐ 350 MH/PS	YBR0835-(a)L(b)*			YBR2835-(a)L(b)*	YBR0935-(a)(b)	YBR2935-(a)(b)
400 MH	YBR0440-(a)L(b)*			YBR2440-(a)L(b)*	YBR0240-(a)(b)	YBR2240-(a)(b)
400 MH/MS	YBR0740-(a)L(b)*			YBR2740-(a)L(b)*		
ⓐ 400 MH/PS	YBR0840-(a)L(b)*			YBR2840-(a)L(b)*	YBR0940-(a)(b)	YBR2940-(a)(b)
250 HPS	YBR0525-(a)(b)			YBR2525-(a)(b)		
400 HPS	YBR0540-(a)(b)			YBR2540-(a)(b)		
YBL	22"			250 MH	YBL0425-(a)L(b)*	YBL2425-(a)L(b)*
		ⓐ 250 MH/PS	YBL0825-(a)L(b)*	YBL2825-(a)L(b)*	YBL0925-(a)(b)	YBL2925-(a)(b)
		ⓐ 320 MH/PS	YBL0832-(a)L(b)*	YBL2832-(a)L(b)*	YBL0932-(a)(b)	YBL2932-(a)(b)
		ⓐ 350 MH/PS	YBL0835-(a)L(b)*	YBL2835-(a)L(b)*	YBL0935-(a)(b)	YBL2935-(a)(b)
		400 MH	YBL0440-(a)L(b)*	YBL2440-(a)L(b)*	YBL0240-(a)(b)	YBL2240-(a)(b)
		400 MH/MS	YBL0740-(a)L(b)*	YBL2740-(a)L(b)*		
		ⓐ 400 MH/PS	YBL0840-(a)L(b)*	YBL2840-(a)L(b)*	YBL0940-(a)(b)	YBL2940-(a)(b)
		250 HPS	YBL0525-(a)(b)	YBL2525-(a)(b)		
		400 HPS	YBL0540-(a)(b)	YBL2540-(a)(b)		

For all Hook, Cord & Plug units (both enclosed and open rated lamp), specify voltage (a) for plug.



Heat Dissipating Fins
The ballast housing has heat-dissipating fins that release heat into the air, extending fixture life.



Conduit Mount

Ordering Code 0



Hook, Cord & Plug

Ordering Code 2

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
ⓐ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) MS = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt For hook, cord & plug, specify voltage: 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	C = Coated Lamp D = Drop Lens Assembly (available on 16" & 22" only) K = Conical Lens Assembly (available on 16" & 22" only) L = Flat Lens Assembly <u>Quartz Standby (includes Quartz Lamp)</u> Q = Quartz Standby	A HK SC = Hook Only SC-6 = Ballast/Reflector Safety Chain 6' See page 188 for complete listing of lens and guard options.

* Flat lens assembly included on all metal halide fixtures

Example

YBR	0	4	40	M	C
Series	Mounting	Light Source	Wattage	Voltage	Options
YBR = 16" Reflector	0 = Slide box	4 = MH	400 = 400W	M = Multi-Top	C = Coated lamp



Distributor Pak™

Order Code ⓐ
Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Wattage Range:
250 to 400 W



The economical YL Series fixture is designed for commercial and industrial applications. Its Y-Pod design is aesthetically pleasing, with no exposed components or vents that can trap contaminants. Its high-performance, clear prismatic acrylic refractor produces a smooth, even beam pattern with over a 90% efficiency rate and approximately 15 to 20% uplight.

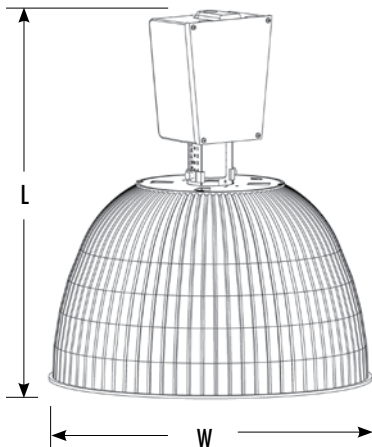
35 °C Ambient Rated



 Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length		Ceiling Width	Ceiling Height
	Min.	Max.		
YLS Series	20.1"	23.1"	16"	20' - 30'
YLM Series	22.7"	25.7"	22"	20' - 30'
YLL Series	23.1"	25.1"	25"	20' - 30'



Features

Housing

The heavy-duty die-cast aluminum ballast housing has heat-dissipating fins (refer to photo on next page) to extend ballast life that is rated at 65°C ambient. Ballast pod is supplied in a white polyester powder coat finish. Cover attaches to housing with four screws for easy internal access. Segmented ballast compartment for heat sink. Center-balanced ballast and components ensure unit hangs straight. Unique Y-pod design has a minimal horizontal surface, which reduces collection of airborne particles to retain new appearance.

Ballast

All fixtures are supplied with a high power factor constant wattage ballast in multi-tap or 480 volt.

Lamps

The YL Series is furnished with 250-400W mogul base lamps. Open rated fixtures are supplied with restricted sockets and open rated lamps.

Reflector

The 16", 22" and 25" UV stabilized, high-performance clear prismatic acrylic refractor provides over 90% efficiency and approximately 15 to 20% uplight. Reflector design allows for ventilation, which cleans contaminants from system.

Adjustable Distribution

The patented spring-loaded Twist-N-Lock™ reflector attachment system allows for complete tool-free reflector installation and seven-optic position



Twist-N-Lock™ - Locked Twist-N-Lock™ - Open

adjustment. Simply pull open the spring-loaded locking pins and snap-lock the reflector in place.

Mounting Options

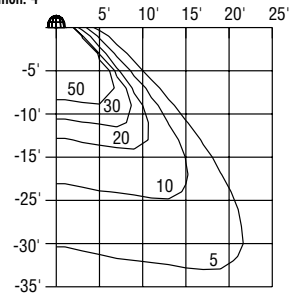
Direct hard wire or hook, cord & plug mounting is available. A 2/3" threaded conduit hub is standard. The hook, cord and plug option is furnished with a die-cast aluminum Safety Snap-Lock hook that has 3/4" NPT threads, 6' SOW16/3 cord and NEMA Twist + Lock plug.

Photometric Data

(Isofootcandle Plots)

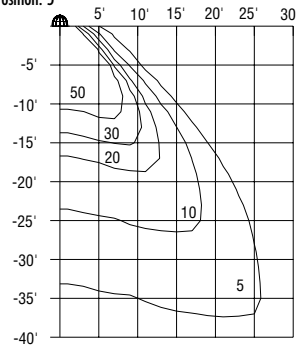
16" Prismatic

Cat #: YLS0225, YLS0425 Certified Test Report: ITL36501
Lamp: 250W Coated MH IES File: ELS425FM.IES
Lumens: 25,000 Spacing Criteria: 2.2
Socket Position: 4



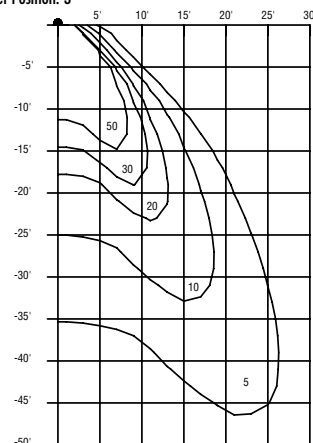
22" Prismatic

Cat #: YLM0240, YLM0440 Certified Test Report: ITL37107
Lamp: 400W Coated MH IES File: ELM440FM.IES
Lumens: 36,000 Spacing Criteria: 2.0
Socket Position: 5



25" Prismatic

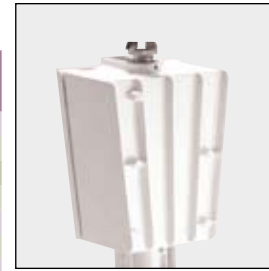
Cat #: YLL0240, YLL0440 Certified Test Report: ITL42314
Lamp: 400W Coated MH IES File: ELM440FM.IES
Lumens: 36,000 Spacing Criteria: 1.9
Socket Position: 3



YL Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp Conduit Mount	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Conduit Mount	Open Rated Lamp Hook, Cord & Plug
YLS	16"	250 MH	YLS0425-(a)L(b)*	YLS2425-(a)L(b)*	YLS0225-(a)(b)	YLS2225-(a)(b)
		Ⓜ 250 MH/PS	YLS0825-(a)L(b)*	YLS2825-(a)L(b)*	YLS0925-(a)(b)	YLS2925-(a)(b)
		Ⓜ 320 MH/PS			YLS0932-(a)(b)	YLS2932-(a)(b)
		Ⓜ 350 MH/PS			YLS0935-(a)(b)	YLS2935-(a)(b)
		400 MH			YLS0240-(a)(b)	YLS2240-(a)(b)
		Ⓜ 400 MH/PS			YLS0940-(a)(b)	YLS2940-(a)(b)
		250 HPS	YLS0525-(a)(b)	YLS2525-(a)(b)		
400 HPS	YLS0540-(a)(b)	YLS2540-(a)(b)				
YLM	22"	250 MH	YLM0425-(a)L(b)*	YLM2425-(a)L(b)*	YLM0225-(a)(b)	YLM2225-(a)(b)
		Ⓜ 250 MH/PS	YLM0825-(a)L(b)*	YLM2825-(a)L(b)*	YLM0925-(a)(b)	YLM2925-(a)(b)
		Ⓜ 320 MH/PS	YLM0832-(a)L(b)*	YLM2832-(a)L(b)*	YLM0932-(a)(b)	YLM2932-(a)(b)
		Ⓜ 350 MH/PS	YLM0835-(a)L(b)*	YLM2835-(a)L(b)*	YLM0935-(a)(b)	YLM2935-(a)(b)
		400 MH	YLM0440-(a)L(b)*	YLM2440-(a)L(b)*	YLM0240-(a)(b)	YLM2240-(a)(b)
		400 MH/MS	YLM0740-(a)L(b)*	YLM2740-(a)L(b)*		
		Ⓜ 400 MH/PS	YLM0840-(a)L(b)*	YLM2840-(a)L(b)*	YLM0940-(a)(b)	YLM2940-(a)(b)
250 HPS	YLM0525-(a)(b)	YLM2525-(a)(b)				
400 HPS	YLM0540-(a)(b)	YLM2540-(a)(b)				
YLL	25"	250 MH	YLL0425-(a)L(b)*	YLL2425-(a)L(b)*	YLL0225-(a)(b)	YLL2225-(a)(b)
		Ⓜ 250 MH/PS	YLL0825-(a)L(b)*	YLL2825-(a)L(b)*	YLL0925-(a)(b)	YLL2925-(a)(b)
		Ⓜ 320 MH/PS	YLL0832-(a)L(b)*	YLL2832-(a)L(b)*	YLL0932-(a)(b)	YLL2932-(a)(b)
		Ⓜ 350 MH/PS	YLL0835-(a)L(b)*	YLL2835-(a)L(b)*	YLL0935-(a)(b)	YLL2935-(a)(b)
		400 MH	YLL0440-(a)K(b)*	YLL2440-(a)K(b)*	YLL0240-(a)(b)	YLL2240-(a)(b)
		Ⓜ 400 MH/PS	YLL0840-(a)L(b)*	YLL2840-(a)L(b)*	YLL0940-(a)(b)	YLL2940-(a)(b)
		250 HPS	YLL0525-(a)(b)	YLL2525-(a)(b)		
400 HPS	YLL0540-(a)(b)	YLL2540-(a)(b)				

For all Hook, Cord & Plug units (both enclosed and open rated lamp), specify voltage (a) for plug.



Heat Dissipating Fins
The ballast housing has heat-dissipating fins that release heat into the air, extending fixture life.



Conduit Mount

Ordering Code 0



Hook, Cord & Plug

Ordering Code 2

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
@ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) M5 = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt	A = Aislelighters (25" only) C = Coated Lamp* D = Drop Lens Assembly (available on 16" & 22" only) K = Conical Lens Assembly L = Flat Lens Assembly	A HK SC = Hook Only SC-6 = Ballast/Reflector Safety Chain 6' See page 188 for complete listing of lens and guard options.
	For hook, cord & plug, specify voltage: 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	Quartz Standby (includes Quartz Lamp) Q = Quartz Standby *Coated lamps are recommended. Maximum effectiveness is achieved through the use of coated lamps that reduce glare.	

* Flat lens assembly included on all metal halide fixtures



Distributor Pak™

Order Code @
Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Example

YLS	0	4	40	M	C
Series	Mounting	Light Source	Wattage	Voltage	Options
YLS = 16" Reflector	0 = Slide box	4 = MH	400 = 400W	M = Multi-Tap	C = Coated lamp

Wattage Range:
250 to 400 W



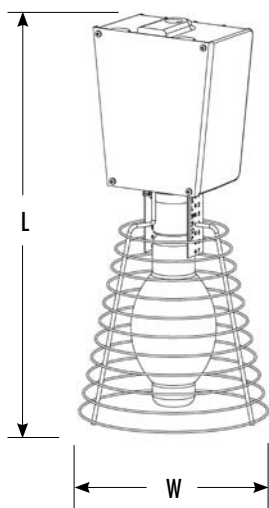
The YTC Series fixture offers a longer life and cost-effective solution to incandescent string lights. Heavy-duty construction withstands repeated use. Fixture can be converted to a permanent standard high bay/low bay with the addition of the desired optical assembly. Its Y-Pod design is aesthetically pleasing, with no exposed components or vents that can trap contaminants. Compatible with standard Y-pod optical configurations.

35 °C Ambient Rated

 Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Ceiling Height
YTC Series	25.2"	9.25"	Over 15'



Features

Housing

The heavy-duty die-cast aluminum ballast housing has heat-dissipating fins (refer to photo on next page) to extend ballast life. Ballast pod is supplied in a white polyester powder coat finish. Cover attaches to housing with four screws for easy internal access. Segmented ballast compartment for heat sink. Center-balanced ballast and components ensure unit hangs straight. Unique Y-pod design has a minimal horizontal surface, which reduces collection of airborne particles to retain new appearance.

Ballast

All fixtures are supplied with a high power factor constant wattage ballast.

Lamps

All YTC fixtures are furnished with mogul base lamps. Open rated fixtures are supplied with restricted sockets and open rated lamps.

Optics

Chrome-plated steel wire guard protects lamps in jobsites or other sites needing temporary lighting, while allowing full light distribution.

Mounting Options

Direct hard wire, hook or hook, cord & plug mounting is available. A 2/3" threaded conduit hub is standard. The hook, cord and plug option is furnished with a die-cast aluminum Safety Snap-Lock hook that has 3/4" NPT threads, 6' SOW16/3 cord and NEMA Twist + Lock plug. Consult factory for straight blade plug. To install lamp guard, simply slide bracket to socket and tighten.

Packaging

When specified, units are packaged in a convenient Distributor-Pak™ for easy inventory and shipping.

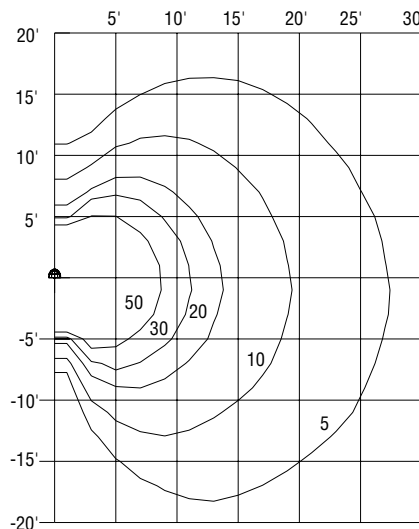
TEMP-O
OPEN RATED
TEMPORARY JOBSITE LIGHTING

Photometric Data

(Isofootcandle Plots)

YTC Temporary Jobsite Fixture

Cat #: YTC2440
Lamp: 400W Clear MH
Lumens: 38,000
Certified Test Report: B2013
IES File: DTC440.IES



YTC Series Ordering Information

Series	Housing Size	Wattage Lamp	Enclosed Rated Lamp Conduit Mount	Enclosed Rated Lamp Hook Only	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Conduit Mount	Open Rated Hook Only	Open Rated Lamp Hook, Cord & Plug
YTC	11"	400 MH 250 HPS 400 HPS	YTC0440-(a)(b) YTC0525-(a)(b) YTC0540-(a)(b)	YTC1440-(a)(b) YTC1525-(a)(b) YTC1540-(a)(b)	YTC2440-(a)(b) YTC2525-(a)(b) YTC2540-(a)(b)	YTC0240-(a)(b)	YTC1240-(a)(b)	YTC2240-(a)(b)

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
@ = Distributor Pak™ (optics, pod and lamp in one carton)	5 = 480 Volt M = Multi-tap (tapped @ 277V) MS = 120 - 480V 400W MH only (tapped @ 480V) For hook, cord & plug, specify voltage: 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	CP3 = 120 Volt (Straight Blade) C = Coated Lamp (Recommended)	LG = Replacement Guard A HK SC = Hook Only SC-6 = Ballast/Reflector Safety Chain 6'

Example

YTC	0	4	40	M	C
Series	Mounting	Light Source	Wattage	Voltage	Options
YTC = 11" Wire Guard	0 = Conduit Mount	4 = MH	40 = 400W	M = Multi-tap	C = Coated lamp



Heat Dissipating Fins
The ballast housing has heat-dissipating fins that release heat into the air, extending fixture life.



Conduit Mount

Ordering Code 0



Hook, Cord & Plug

Ordering Code 2



Distributor Pak™

Order Code @
Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Wattage Range:
150 - 400 W



Lamp Included

This compact 16" low bay luminaire can be used to minimize shadows, reduce fixture glare and still deliver high light levels at low mounting heights.

40 °C, 55 °C
Ambient Rated

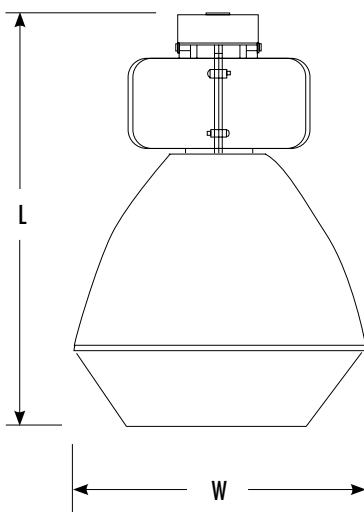


Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Approx. Ship Wt.
LJS Series	21.9"	16.0"	22 lbs.

Spacing Criteria: 1.3 - 2.0



Features

Housing

The heavy-duty die cast aluminum ballast housing dissipates heat through cooling fins and comes standard in a white polyester powder coating. Consult factory for other color options.

Ballast

All fixtures are supplied with a high power factor high reactance or constant wattage ballast in multi-tap or 480 volt.

Lamps

The LJS Series uses mogul base metal halide (175 - 400W), super high-output metal halide (400W) and HPS (150 - 400W) lamps.

Optics

The compact 16" reflector covers a wide area with both vertical and horizontal footcandles required for most lighting tasks. The drop lens assembly is easily snapped into place with a ring and stainless steel clips. For dirty environments, special charcoal filter optics are available to keep the inside refractor clean and efficient.

Ratings

The LJS Series retains its UL listing for damp locations and comes standard as a totally enclosed luminaire. Wet location UL listing is available as an option.

Mounting Options

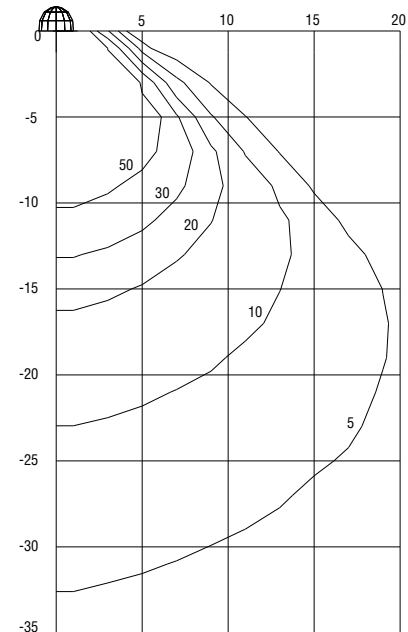
A direct hard wire with slide box or a hook, cord & plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. The easy-access wiring chamber provides additional room for wiring make-up.

Photometric Data

(Isofootcandle Plots)

16" Low Bay

Cat #: LJS0425, LJS2425
Lamp: 250W Clear MH
Lumens: 26,000
Certified Test Report: ITL45980
IES File: LBS425.IES
Spacing Criteria: 1.5



LJ Series Ambient Temperature Ratings

Fixture Wattage	Enclosed Only		
	25°C	40°C	55°C
175W	yes	yes	yes
250W	yes	yes	LJM/LJL
320W	yes	LJM/LJL	LJL only
350W	yes	LJM/LJL	LJL only
400W	yes	LJM/LJL	LJL only
450W	LJM/LJL	LJM/LJL	LJL only

LJS Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp Slide-Box	Enclosed Rated Lamp Hook, Cord & Plug
LJS	16"	175W MH	LJS0417-(a)(b)	LJS2417-(a)(b)
		Ⓜ 175W MH/PS	LJS0817-(a)(b)	LJS2817-(a)(b)
		Ⓜ 200W MH/PS	LJS0820-(a)(b)	LJS2820-(a)(b)
		250W MH	LJS0425-(a)(b)	LJS2425-(a)(b)
		Ⓜ 250W MH/PS	LJS0825-(a)(b)	LJS2825-(a)(b)
		Ⓜ 320W MH/PS*	LJS0832-(a)(b)	LJS2832-(a)(b)
		Ⓜ 350W MH/PS*	LJS0835-(a)(b)	LJS2835-(a)(b)
		400W MH*	LJS0440-(a)(b)	LJS2440-(a)(b)
		Ⓜ 400W MH/PS*	LJS0840-(a)(b)	LJS2840-(a)(b)
		Ⓜ 400W MH-MS*	LJS0740-(a)(b)	LJS2740-(a)(b)
		150W HPS	LJS0515-(a)(b)	LJS2515-(a)(b)
		250W HPS	LJS0525-(a)(b)	LJS2525-(a)(b)
		400W HPS	LJS0540-(a)(b)	LJS2540-(a)(b)

* Reduced Jacketed Lamp Required

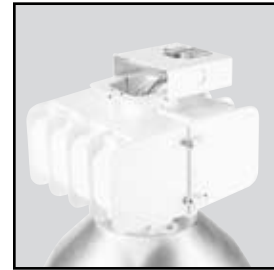
Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
Ⓜ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) MS = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt <i>For hook, cord & plug, specify voltage:</i> 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	Fusing (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V Q = Quartz Standby G = Totally Enclosed with Air Filter W = Wet Location (Hardwire Only)	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ SC-6 = Ballast/Reflector Safety Chain - 6' SP-18 = Swivel Pendant Mount 3/4" x 18" long (other lengths available upon request)

†† Must be used with High-2-Low, 190

Example

LJS	0	4	40	M	C
Series	Mounting	Light Source	Wattage	Voltage	Options
LJS = 16" Low Bay	0 = Slide Box	4 = MH	40 = 400W	M = Multi-tap	C = Coated lamp

Mountings and Accessories



Slide Box

Ordering Code 0



Hook, Cord & Plug

Ordering Code 2



Swivel Pendant

Accessory Code SP-18



Distributor Pak™

Order Code Ⓜ
 Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Wattage Range:
175 - 450 W



Lamp Included

The **LJM** Series is perfect for both commercial and industrial applications that require high light levels, superior spacial perception and a wide beam pattern at low mounting heights.

40 °C, 55 °C
Ambient Rated

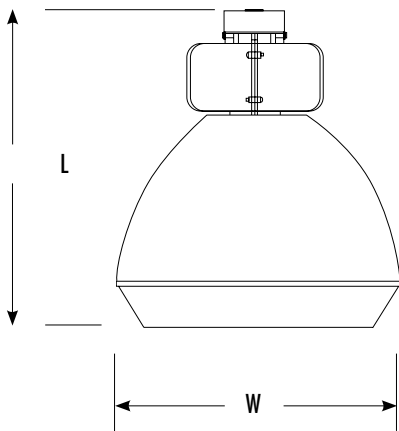


Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Approx. Ship Wt.
LJM Series	23.8"	22.0"	24 lbs.

Spacing Criteria: 1.8



Features

Housing

The heavy-duty die cast aluminum ballast housing dissipates heat through cooling fins and comes standard in a white polyester powder coating. Consult factory for other color options.

Ballast

All fixtures are supplied with a high power factor constant wattage ballast in multi-tap or 480 volt.

Lamps

The LJM Series uses mogul base metal halide (175 - 400W), super high-output metal halide (400W) and HPS (250 - 400W) lamps.

Optics

The compact 22" reflector is totally enclosed. The drop lens assembly is easily snapped into place with four clips and is hinged to provide tool-free lamp access. The refractor is made of virgin, color-resistant acrylic. For dirty environments, special charcoal filter optics are available to keep the inside refractor clean and efficient (option G).

Ratings

The LJM Series retains its UL listing for damp locations and comes standard as a totally enclosed luminaire. Wet location UL listing is available as an option.

Mounting Options

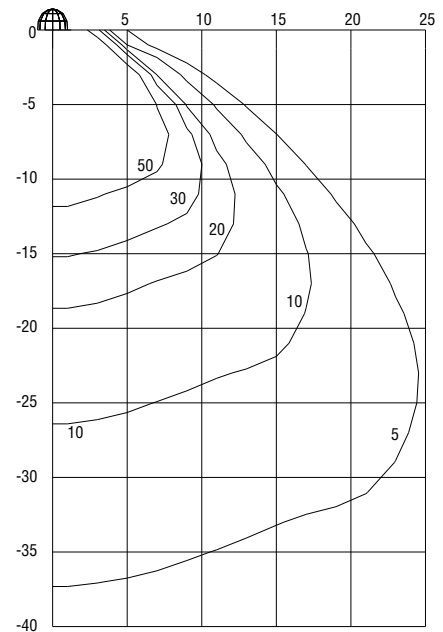
A direct hard wire with slide box or a hook, cord & plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. The easy-access wiring chamber provides additional room for wiring make-up.

Photometric Data

(Isofootcandle Plots)

22" Low Bay

Cat #: LJM0440, LJM2440
Lamp: 400W Clear MH
Lumens: 38,000
Certified Test Report: ITL45177
IES File: LBM440SE.IES
Spacing Criteria: 1.8



LJ Series Ambient Temperature Ratings

Fixture Wattage	Enclosed Only		
	25°C	40°C	55°C
175W	yes	yes	yes
250W	yes	yes	LJM/LJL
320W	yes	LJM/LJL	LJL only
350W	yes	LJM/LJL	LJL only
400W	yes	LJM/LJL	LJL only
450W	yes	LJM/LJL	LJL only

LJM Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp Slide-Box	Enclosed Rated Lamp Hook, Cord & Plug
LJM	22"	175W MH	LJM0417-(a)(b)	LJM2417-(a)(b)
		Ⓜ 175W MH/PS	LJM0817-(a)(b)	LJM2817-(a)(b)
		Ⓜ 200W MH/PS	LJM0820-(a)(b)	LJM2820-(a)(b)
		250W MH	LJM0425-(a)(b)	LJM2425-(a)(b)
		Ⓜ 250W MH/PS	LJM0825-(a)(b)	LJM2825-(a)(b)
		Ⓜ 320W MH/PS	LJM0832-(a)(b)	LJM2832-(a)(b)
		Ⓜ 350W MH/PS	LJM0835-(a)(b)	LJM2835-(a)(b)
		400W MH	LJM0440-(a)(b)	LJM2440-(a)(b)
		Ⓜ 400W MH/PS	LJM0840-(a)(b)	LJM2840-(a)(b)
		Ⓜ 400W MH/MS	LJM0740-(a)(b)	LJM2740-(a)(b)
		Ⓜ 450W MH/PS	LJM0845-(a)(b)	LJM2845-(a)(b)
		250W HPS	LJM0525-(a)(b)	LJM2525-(a)(b)
		400W HPS	LJM0540-(a)(b)	LJM2540-(a)(b)

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
Ⓜ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) M5 = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt <i>For hook, cord & plug, specify voltage:</i> 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	Fusing (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V Q = Quartz Standby G = Totally Enclosed with Air Filter W = Wet Location (Hardwire Only)	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ SC-6 = Ballast/Reflector Safety Chain - 6' SP-18 = Swivel Pendant Mount 3/4" x 18" long (other lengths available upon request)

Example

LJM	0	4	17	M	Q
Series	Mounting	Light Source	Wattage	Voltage	Options
LJS = 16" Reflector	0 = Slide Box	4 = MH	17 = 175W	M = Multi-tap	Q = Quartz Standby

Mountings and Accessories



Slide Box

Ordering Code **0**



Hook, Cord & Plug

Ordering Code **2**



Swivel Pendant

Accessory Code **SP-18**



Distributor Pak™

Order Code **@**
 Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.



Optical Chamber Air Filter

Ordering Code **G**

The granular charcoal air filter can be mounted on top of the reflector to prevent dirt contaminants.

Wattage Range:
175 - 450 W



Lamp Included

Designed for both commercial and industrial applications, the LJL Series features a wide 30" optics that delivers virtually glare-free lighting with excellent fixture efficiency at low mounting heights.

40 °C, 55 °C
Ambient Rated

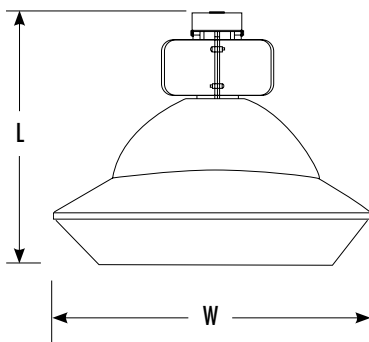


 Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Approx. Ship Wt.
LJL Series	21.0"	30.0"	26 lbs.

Spacing Criteria: 1.3 - 2.0



Features

Housing

The heavy-duty die cast aluminum ballast housing dissipates heat through cooling fins and comes standard in a white polyester powder coating. Consult factory for other color options.

Ballast

All fixtures are supplied with a high power factor constant wattage ballast in multi-tap or 480 volt.

Lamps

The LJL Series uses mogul base metal halide (175 - 400W), super high-output metal halide (400W) and HPS (250 - 400W) lamps.

Optics

The totally enclosed 30" aluminum reflector spreads light evenly and with minimum glare. The drop lens assembly is easily snapped into place with four clips and is hinged to provide tool-free lamp access. The refractor is made of virgin, color-resistant acrylic. For dirty environments, special charcoal filter optics are available to keep the inside refractor clean and efficient (option G).

Ratings

The LJL Series retains its UL listing for damp locations and comes standard as a totally enclosed luminaire. Wet location UL listing is available as an option.

Mounting Options

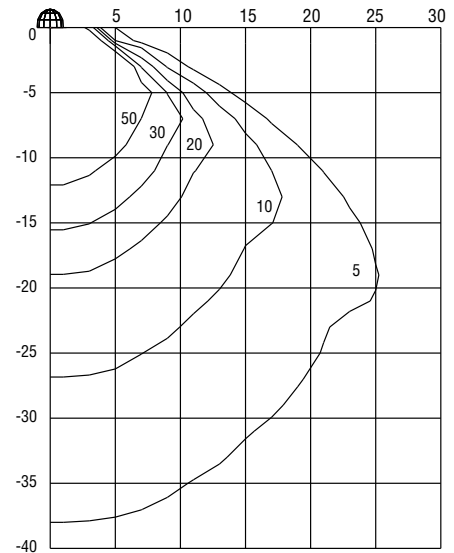
A direct hard wire with slide box or a hook, cord & plug mounting is available. The slide box has an adjustable hook assembly for fixture balancing. The easy-access wiring chamber provides additional room for wiring make-up.

Photometric Data

(Isofootcandle Plots)

30" Low Bay

Cat #: LJL0440, LJL2440
Lamp: 400W Clear MH
Lumens: 38,000
Certified Test Report: LTL03846
IES File: LBL0440.IES
Spacing Criteria: 1.5



LJ Series Ambient Temperature Ratings

Fixture Wattage	Enclosed Only		
	25°C	40°C	55°C
175W	yes	yes	yes
250W	yes	yes	LJM/LJL
320W	yes	LJM/LJL	LJL only
350W	yes	LJM/LJL	LJL only
400W	yes	LJM/LJL	LJL only
450W	yes	LJM/LJL	LJL only

LJL Series Ordering Information

Series	Reflector Size	Wattage Lamp	Slide Box	Hook, Cord & Plug
LJL	30"	175W MH	LJL0417-(a)(b)	LJL2417-(a)(b)
		Ⓢ 175W MH/PS	LJL0817-(a)(b)	LJL2817-(a)(b)
		Ⓢ 200W MH/PS	LJL0820-(a)(b)	LJL2820-(a)(b)
		250W MH	LJL0425-(a)(b)	LJL2425-(a)(b)
		Ⓢ 250W MH/PS	LJL0825-(a)(b)	LJL2825-(a)(b)
		Ⓢ 320W MH/PS	LJL0832-(a)(b)	LJL2832-(a)(b)
		Ⓢ 350W MH/PS	LJL0835-(a)(b)	LJL2835-(a)(b)
		400W MH	LJL0440-(a)(b)	LJL2440-(a)(b)
		Ⓢ 400W MH/PS	LJL0840-(a)(b)	LJL2840-(a)(b)
		Ⓢ 400W MH/MS	LJL0740-(a)(b)	LJL2740-(a)(b)
		Ⓢ 450W MH/PS	LJL0845-(a)(b)	LJL2845-(a)(b)
		250W HPS	LJL0525-(a)(b)	LJL2525-(a)(b)
		400W HPS	LJL0540-(a)(b)	LJL2540-(a)(b)

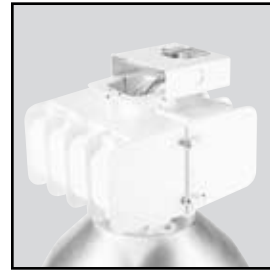
Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
M = Multi-tap (tapped @ 277V)	G = Totally Enclosed with Air Filter	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™
M5 = 120 - 480V 400W MH only (tapped @ 480V)	H = High-2-Low Option (250-400W MH, 320-400W MH/PS)†† (CWA only)	SC-6 = Ballast/Reflector Safety Chain - 6' long
5 = 480 Volt	W = Wet Location (Hardwire Only)	SP-18 = Swivel Pendant Mount 3/4" x 18" long (other lengths available upon request)
<i>For hook, cord & plug, specify voltage:</i>	Fusing	
1 = 120V*	(x)F = Single - Specify voltage (x):	
2 = 277V*	1 = 120V; 2 = 277V	
3 = 208V*	(x)J = Dual - Specify voltage (x):	
4 = 240V*	3 = 208V; 4 = 240V; 5 = 480V	
5 = 480V	Quartz Standby (includes Quartz Lamp)	
	Q = Quartz Standby	
<i>*Supplied with Multi-tap ballasts</i>		

†† Must be used with High-2-Low, 190

Example

LJL	0	4	32	M	Q
Series	Mounting	Light Source	Wattage	Voltage	Options
LJL = 30" Reflector	0 = Slide Box	4 = MH	32 = 320W	M = Multi-tap	Q = Quartz Standby

Mountings and Accessories



Slide Box

Ordering Code **0**



Hook, Cord & Plug

Ordering Code **2**



Swivel Pendant

Accessory Code SP-18



Optical Chamber Air Filter

Ordering Code **G**

The granular charcoal air filter can be mounted on top of the reflector to prevent dirt contaminants.

Wattage Range:
150 - 400 W



Lamp Included

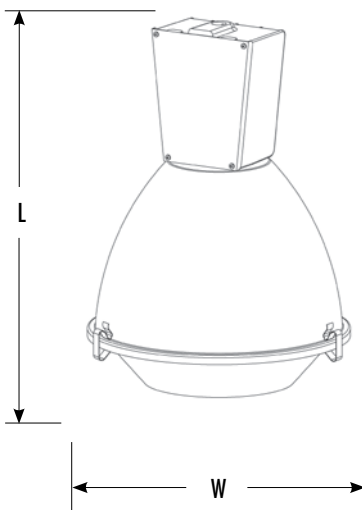
This compact **LYS Series 16"** low bay luminaire incorporates a Y-pod design that is aesthetically pleasing and functional. A minimal horizontal surface reduces the collection of airborne particles to retain its new appearance. Fixtures can be used to minimize shadows, reduce fixture glare and still deliver high light levels at low mounting heights. Recommended for temperatures exceeding 35 degrees.



UL Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Approx. Ship Wt.
LYS Series	25"	16.6"	Below 20'



Features

Housing

The heavy-duty die-cast aluminum housing dissipates heat through cooling fins. Ballast pod is supplied in a white polyester powder coat finish. Cover attaches to housing with four screws for easy internal access. Segmented ballast compartment for heat sink. Center-balanced ballast and components ensure unit hangs straight. Unique Y-pod design has a minimal horizontal surface, which reduces collection of airborne particles to retain new appearance.

Ballast

All fixtures are supplied with a high power factor high reactance or constant wattage ballast in multi-tap or 480 volt.

Lamps

The LYS Series is available with 250-400W metal halide, 400W super high output metal halide, 250-400W pulse start metal halide or 150-400W high-pressure sodium mogul lamps.

Optics

The compact 16" reflector covers a wide area with both vertical and horizontal footcandles required for most lighting tasks. The drop lens assembly is easily snapped into place with a ring and stainless steel clips.

Mounting Options

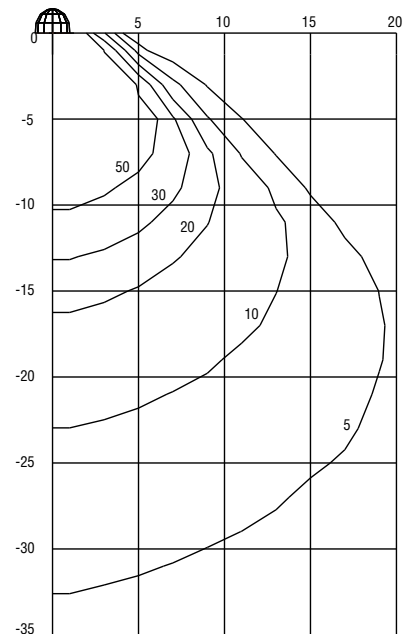
Direct hard wire or hook, cord & plug mounting is available. A 2/3" threaded conduit hub is standard. The hook, cord and plug option is furnished with a die-cast aluminum Safety Snap-Lock hook that has fl" NPT threads, 6' SOW16/3 cord and NEMA Twist + Lock plug. Simple keyhole installation of optical assembly.

Photometric Data

(Isofootcandle Plots)

16" Low Bay

Cat #: LYS0425, LYS2425
Lamp: 250W Clear MH
Lumens: 26,000
Certified Test Report: ITL45980
IES File: LBS425.IES
Spacing Criteria: 1.5



LYS Series Ordering Information

Series	Reflector Size	Wattage Lamp	Conduit Mount	Hook, Cord & Plug
LYS	16"	250W MH	LYS0425-(a)(b)	LYS2425-(a)(b)
		e 250W MH/PS	LYS0825-(a)(b)	LYS2825-(a)(b)
		e 320W MH/PS *	LYS0832-(a)(b)	LYS2832-(a)(b)
		e 350W MH/PS *	LYS0835-(a)(b)	LYS2835-(a)(b)
		400W MH *	LYS0440-(a)(b)	LYS2440-(a)(b)
		e 400W MH/PS *	LYS0840-(a)(b)	LYS2840-(a)(b)
		e 400W MH-MS *	LYS0740-(a)(b)	LYS2740-(a)(b)
		150W HPS	LYS0515-(a)(b)	LYS2515-(a)(b)
		250W HPS	LYS0525-(a)(b)	LYS2525-(a)(b)
		400W HPS	LYS0540-(a)(b)	LYS2540-(a)(b)

* Reduced Jacketed Lamp Required

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
@ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) MS = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt For hook, cord & plug, specify voltage: 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	Q = Quartz Standby (includes Quartz Lamp) Q = Quartz Standby	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ SC-6 = Ballast/Reflector Safety Chain - 6' SP-18 = Swivel Pendant Mount 3/4" x 18" long (other lengths available upon request)

Mountings and Accessories



Conduit Mount

Ordering Code **0**



Hook, Cord & Plug

Ordering Code **2**



Distributor Pak™

Order Code **@**
 Replace dash (-) in order code to indicate Distributor Pak™.

Example

Series	Mounting	Light Source	Wattage	Voltage	Options
LYS	0	4	25	M	Q
LYS = 16" Reflector	0 = Slide Box	4 = MH	25 = 250W	M = Multi-tap	Q = Quartz Standby

Wattage Range:
250 - 400 W



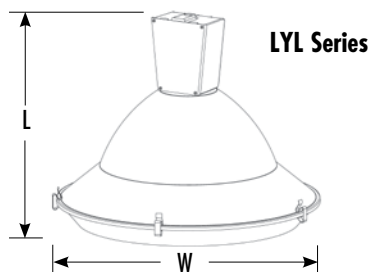
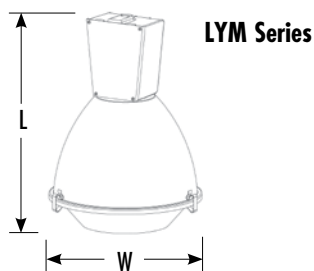
The LYL/LYM Series are perfect for both commercial and industrial applications that require high light levels, superior spacial perception and a wide beam pattern at low mounting heights. The Y-pod design is aesthetically pleasing, with a minimal horizontal surface that reduces the collection of airborne particles. The LYL Series features a wide 30" optics that delivers virtually glare-free lighting.



Listed for Damp Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Ceiling Height
LYM Series	27"	22"	Below 20'
LYL Series	24.2"	30"	Below 20'



Features

Housing

The heavy-duty die-cast aluminum housing dissipates heat through cooling fins. Ballast pod is supplied in a white polyester powder coat finish. Cover attaches to housing with four screws for easy internal access. Segmented ballast compartment for heat sink. Center-balanced ballast and components ensure unit hangs straight. Unique Y-pod design has a minimal horizontal surface, which reduces collection of airborne particles to retain new appearance.

Ballast

All fixtures are supplied with a high power factor constant wattage ballast in multi-tap or 480 volt.

Lamps

The LYM/LYL Series is available with 250-400W metal halide, 400W super high output metal halide, 250-400W pulse start metal halide or 250-400W high-pressure sodium mogul lamps.

Optics

The compact reflector covers a wide area with both vertical and horizontal footcandles required for most lighting tasks. The drop lens assembly is easily snapped into place with a ring and stainless steel clips. For dirty environments, special charcoal filter optics are available to keep the inside refractor clean and efficient. (Option G)

Mounting Options

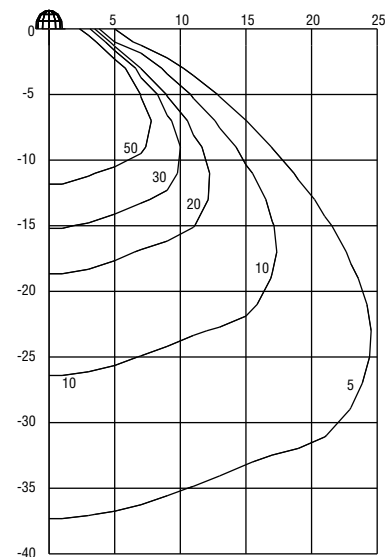
Direct hard wire or hook, cord & plug mounting is available. A 2/3" threaded conduit hub is standard. The hook, cord and plug option is furnished with a die-cast aluminum Safety Snap-Lock hook that has 3/4" NPT threads, 6' SOW16/3 cord and NEMA Twist + Lock plug. Simple keyhole installation of optical assembly.

Photometric Data

(Isofootcandle Plots)

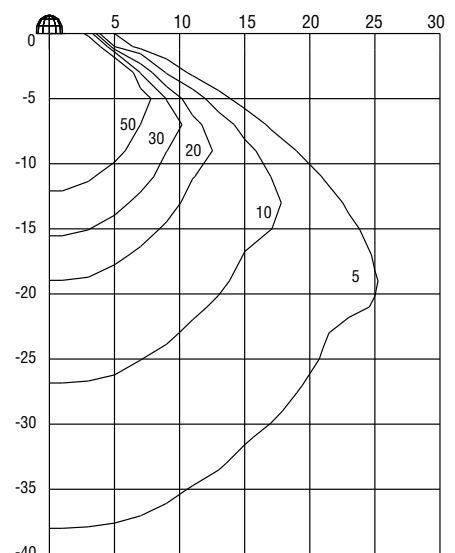
22" Low Bay

Cat #: LYM0440, LYM2440 Certified Test Report: ITL45177
Lamp: 400W Clear MH IES File: LBM440SE.IES
Lumens: 38,000 Spacing Criteria: 1.8



30" Low Bay

Cat #: LYL0440, LYL2440 Certified Test Report: LTL03846
Lamp: 400W Clear MH IES File: LBL0440.IES
Lumens: 38,000 Spacing Criteria: 1.5



LY Series Ordering Information

Series	Reflector Size	Wattage Lamp	Conduit Mount	Hook, Cord & Plug
LYM	22"	250W MH	LYM0425-(a)(b)	LYM2425-(a)(b)
		Ⓜ 250W MH/PS	LYM0825-(a)(b)	LYM2825-(a)(b)
		Ⓜ 320W MH/PS	LYM0832-(a)(b)	LYM2832-(a)(b)
		Ⓜ 350W MH/PS	LYM0835-(a)(b)	LYM2835-(a)(b)
		400W MH	LYM0440-(a)(b)	LYM2440-(a)(b)
		Ⓜ 400W MH/PS	LYM0840-(a)(b)	LYM2840-(a)(b)
		400W MH/MS	LYM0740-(a)(b)	LYM2740-(a)(b)
		250W HPS	LYM0525-(a)(b)	LYM2525-(a)(b)
		400W HPS	LYM0540-(a)(b)	LYM2540-(a)(b)
LYL	30"	250W MH	LYL0425-(a)(b)	LYL2425-(a)(b)
		Ⓜ 250W MH/PS	LYL0825-(a)(b)	LYL2825-(a)(b)
		Ⓜ 320W MH/PS	LYL0832-(a)(b)	LYL2832-(a)(b)
		Ⓜ 350W MH/PS	LYL0835-(a)(b)	LYL2835-(a)(b)
		400W MH	LYL0440-(a)(b)	LYL2440-(a)(b)
		Ⓜ 400W MH/PS	LYL0840-(a)(b)	LYL2840-(a)(b)
		400W MH/MS	LYL0740-(a)(b)	LYL2740-(a)(b)
		250W HPS	LYL0525-(a)(b)	LYL2525-(a)(b)
		400W HPS	LYL0540-(a)(b)	LYL2540-(a)(b)

Mountings and Accessories



Conduit Mount

Ordering Code **0**



Hook, Cord & Plug

Ordering Code **2**



Distributor Pak™

Order Code @
 Replace dash (-) in order code to indicate Distributor Pak™. Available only with hard wire or hook, cord & plug. Not available with options.

Packaging (-)	Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
@ = Distributor Pak™ (optics, pod and lamp in one carton)	M = Multi-tap (tapped @ 277V) M5 = 120 - 480V 400W MH only (tapped @ 480V) 5 = 480 Volt <i>For hook, cord & plug, specify voltage:</i> 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V *Supplied with Multi-tap ballasts	<u>Quartz Standby (includes Quartz Lamp)</u> Q = Quartz Standby	A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ SC-6 = Ballast/Reflector Safety Chain - 6' SP-18 = Swivel Pendant Mount 3/4" x 18" long (other lengths available upon request)

Example

LYM	0	4	25	M	Q
Series	Mounting	Light Source	Wattage	Voltage	Options
LYM = 22" Reflector	0 = Slide Box	4 = MH	25 = 250W	M = Multi-tap	Q = Quartz Standby



Hook, Cord & Plug

Fixture mounting hook with Safety Snap-Lock™. Furnished with a 6' cord and NEMA standard Twist + Lock plug for voltage specified.
Approx. shipping weight: 1 lb.



Slide Box

A 3/4" threaded conduit entry is standard for rigid conduit.
Thru-Feed: (2) 1/2" knockouts are available for through-feed wiring.
Approx. shipping weight: 1 lb.



Ordering Code A HK SC
Mounting Hook

The 3/4" threaded mounting safety hook comes standard with the Safety Snap-Lock™ feature.



Ordering Code PH (specify voltage - see below)
Power Hook

For use with any of the Industrial fixtures with Hook, Cord & Plug mounting. Provides three threaded knockouts for 3/4" conduit entry, an eye hanger to support the fixture, and a Twist + Lock receptacle to accommodate appropriate plug.
Available for 120, 208, 240, 277 & 480V.
Ordering codes are as follows: **PH120**, **PH250** (208-240V), **PH277**, **PH480**
Approx. shipping weight: 1.5 lbs.



Ordering Code PHA
Power Hook Adaptor

The Power Hook Adaptor attaches to the Power Hook and allows fastening to a flat surface using the four holes provided on the bracket.



Ordering Code SC-6
Ballast / Reflector Safety Chain

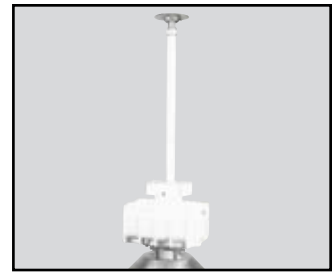
6' long ballast/safety chain provides added security for either Hook, Cord & Plug or Slide Box mounted fixtures. A 12" reflector safety chain section is used for securing the reflector to the ballast housing.

Ordering Code SP-18

Swivel Pendant

3/4" x 18" long pipe is attached to a swivel for mounting to 4" round conduit box only (other lengths are available upon request. Special lengths may require couplers and/or longer lead times.) Lengths include threaded ends (1/2" to 3/4" per end).

Approx. shipping weight: 2.5 lbs.



Ordering Code F (Single)

Ordering Code J (Dual)

External Fuse

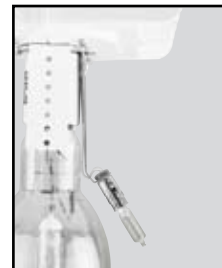
Fusing can help troubleshoot a short or overload in the circuit. A single fuse is used for fixtures with a 120 or 277V ballast. A dual fuse is used for fixtures with a 208, 240, or 480V.



Quartz Standby

Ordering Code Q (Hot/Cold)

Supplies auxiliary lighting after momentary power outage and will automatically extinguish after HID lamp has come up to full power. Available for up to 400 and 1000W for both metal halide and HPS lamps. Uses 150W double jacketed DC-based halogen lamp up to 400W fixtures & 250W DC halogen for 1000W fixtures.



Ordering Code G

Granular Charcoal Air Filter

Granular Charcoal Air Filter can be mounted on top of the reflector on all low bays and most high bays. Helps prevent dirt contaminants from entering the optical chamber.



Ordering Code See Below

Twist + Lock Receptacle

A NEMA standard Twist + Lock receptacle is available for use with any Industrial light with Hook, Cord & Plug mounting. Catalog number specifies voltage, as follows:

Voltage	NEMA Type
120	L5-15R
208 or 240	L6-15R
277	L7-15R
480	L8-20R







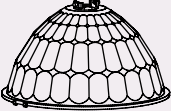





















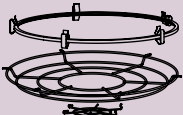

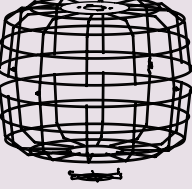

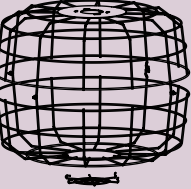
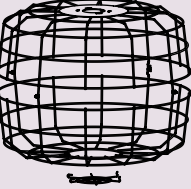
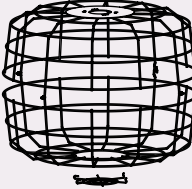
Ordering Code H



















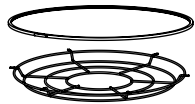
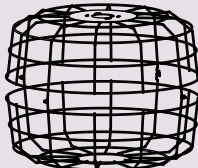
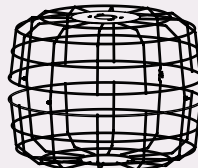
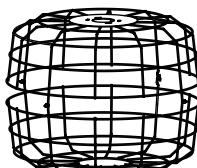
J-Series High-2-Low™ Option

Low voltage switching module shown attached to fixture. See page 190 for full details.



Reflector Options & Accessories

Description	JBM & YBM Reflector EB14	JBR & YBR Reflector EB16	JBL & YBL Reflector EB22	JCS & ZCS Reflector SDC17	JCL & ZCL Reflector SDC22
					
Flat glass lens / ring assembly	EB14LA-HR 	EB16LA 	EB22GLA 	SD17LA 	SDC22LA 
Wire Guard for flat glass assembly *Pre-assembled wire guard & lens assembly	EB14G 	EB16DG 	EB22DG 	SDC17LA/SDC17DG* 	SDC22LA/EB22DG* 
Flat acrylic lens/ring assembly			EB22FLA Up to 450W only 		
Wire guard for flat acrylic lens assembly			EB22DG 		
Conical acrylic prismatic lens/ring assembly		EB16CLA 	EB22CLA 		
Wire guard Snaps into place Fits all 22" shades with or without lens assembly			EB22WG 		EB22WG 
Drop acrylic prismatic lens/ring assembly		EB16DLA 	EB22DLA 		
Wire guard for drop lens assembly			EB22WG 		
Wire guard without lens For use with open rated lamps	EB14G-HR 	EB16WG 	EB22DG-R 	SDC17WG 	
Full wire guard cage for complete optics assembly	822FWG 	822FWG 	822FWG 	822FWG 	822FWG 

Description	JLC Refractor LEX812	JLS, YLS & ZLS Refractor LEX816	JLM, YLM & ZLM Refractor LEX822	JLL & ZLL Refractor LEX825
Flat glass lens / ring assembly				
Wire Guard for flat glass assembly				
Flat acrylic lens/ring assembly	812FLA 	816FLA 	822FLA 	
Wire guard for flat acrylic lens assembly		816WG 		
Conical acrylic or asymmetrical Aislelighter prismatic lens/ring assembly	812CLA 	816CLA 	822CLA-HR 	8255-CLA or 825A-CLA for Aislelighter  <small>(450W Max on JLL)</small>
Wire guard Snaps into place Fits all 22" shades without lens assembly			EB22WG 	
Drop acrylic prismatic lens/ring assembly *812DLA is not prismatic	812DLA* 	816DLA 	822DLA-HR 	
Wire guard without lens For use with open rated lamps		816DG-R 	822WG 	8225G-R 
Full wire guard cage for complete optics assembly		822FWG 	822FWG 	822FWG 

CX-105
Passive Infrared Occupancy Sensor



This dual-element, temperature-compensated pyroelectric sensor is ideal for operating in conjunction with the SDM-100 Bi-Level Electronic Control Module (see 190), which provides 24V DC power to the sensor.

CI-205
Round Motion Sensor

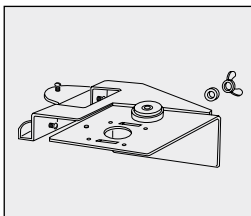


This dual-element, temperature-compensated pyroelectric sensor is ideal for areas requiring 360° sensor coverage. Typically used in open areas without racking, the low-profile sensor operates in conjunction with the SDM-100 Bi-Level Electronic Control Module (see page 190). Installation of the low voltage (24V DC) system is simple using a two-pair twisted, low voltage wire between the bi-level module and the sensor.



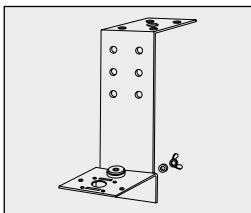
Mounting Brackets

Industrial Mount Bracket



Ordering Code MB2

Fixture Mount Bracket



Ordering Code MB1

Features

In addition to ASIC technology that reduces the number of components while enhancing unit reliability, the CX-105 Passive Infrared Occupancy Sensor features Pulse Count processing that eliminates false offs without reducing sensitivity. Detection Signature Analysis eliminates false triggers and provides immunity to RFI and EMI. Multi-level Fresnel lens offers superior desktop occupancy detection that is signaled with a red LED.

Adjustable Time Delays

An adjustable digital time-delay functions through the highly accurate digital timer built into the sensor. Programming is executed through DIP switches that can be set from 15 seconds through 30 minutes by two-minute increments. Sensitivity is also programmed through the DIP switches, which have four settings from minimum to maximum.

Sensor Selection

Sensors come standard with a dense wide-angle lens (CX-105). A one-sided aisleway sensor (CX-105-4), a two-sided aisleway sensor (CX-105-3), or a long-range, one-sided aisleway

sensor (CX-105-1) are optionally available. Mounting hardware is available for attaching sensors to a fixture reflector/refractor or building.

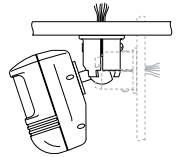
Dimensions

3.3"L x 3.3"W x 2.1"D
(83.8 mm x 83.8 mm x 53.3 mm)

Mounting Options

Swivel Bracket

A swivel-mounting bracket (see drawing) allows the sensor to be angled for convenient corner mounting to wall or ceiling. Grooves on the bracket help to achieve desired angle for coverage. The swivel bracket comes standard with the CX Series Sensors.



Mounting Brackets

Used with mounting brackets MB2 and MB1.

Ordering

For ordering information, refer to page 193.

Features

In addition to ASIC technology that reduces the number of components while enhancing unit reliability, the CI-205 Round Motion Sensor features Pulse Count processing that eliminates false offs without reducing sensitivity. Detection Signature Analysis also eliminates false triggers and provides immunity to RFI and EMI. Multi-level Fresnel lens offers superior desktop occupancy detection that is signaled with a red LED.

Adjustable Time Delays

An adjustable digital time delay functions through the highly accurate digital times built into the sensor. Programming is executed through DIP switches that

can be set from 15 seconds through 30 minutes by two-minute increments. Sensitivity is also programmed through the DIP switches, which have four settings from minimum to maximum.

Sensor Models

Sensing coverage is 1200 SF for the CI-205 module, while coverage is optimal at 500SF using the high-density lens for walking motion with the CI-205-1 module.

Dimensions

3.3" diameter x 3.3" deep
(85 mm x 56 mm)
Extends approximately 0.36" from ceiling

Mounting Options

Various mounting options are available including MB1 and MB2 mounting brackets.

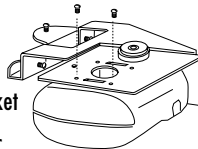
Ordering

For ordering information, refer to page 193.

Ordering Code **MB2**

Industrial Mount Bracket

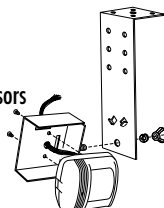
Direct mount to acrylic and aluminum optics



Ordering Code **MB1**

Fixture Mount Bracket

Used for installing the sensors to ceilings or fixtures in industrial settings such as warehouses.

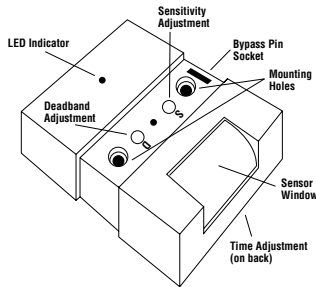


Features

This solid-state system integrates with the full line of High-2-Low™ Lighting Control Systems. Units feature an adjustable "On" light level setting and "Off" dead band that avoids cycling. Controllers provide a control output of 120mA current maximum. A dual-color LED displays unit status.

Adjustable Time Delays

An adjustable digital time delay functions through the highly accurate digital timer built into the sensor. Programming is executed through DIP switches that can be set from 15 seconds through 30 minutes by two-minute increments.



Controller Models

Controllers are available in two modules:

Model LS100XA: Light levels of 10 -100 footcandles

Model LS100XB: Light levels of 50 -1000 footcandles

Dimensions

2.5"L x 2.5"W x 7.5"D
(64 mm x 64 mm x 21 mm)

Mounting Options

Mounting Brackets

Mounting bracket MB1 is used for installing the controllers to ceilings or fixtures in industrial settings such as warehouses.

Ordering

For ordering information, refer to page 193.

LS-100

Light Saving Controller



The LS-100 controller can be connected to function in unison with the motion sensor to stop activation when ambient or superficial lighting meet preset requirements. Units are ideal for use in warehouses that have skylights. Fixtures can remain in the low setting even though motion is sensed.

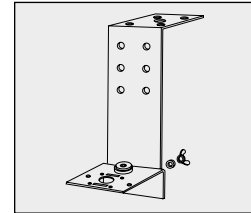


Mounting Brackets

Ordering Code **MB1**

Fixture Mount Bracket

Used for installing the sensors to ceilings or fixtures in industrial settings such as warehouses.



Fixture Mount Bracket

Ordering Code **MB1**

Features

This highly dependable switch incorporates a custom microcontroller that enhances reliability. Time-out adjustments range from 5 minutes to 12 hours. A liquid crystal display shows timer countdown. An optional beep warning sounds an alert every five seconds during the last minute of countdown. An optional one-second light flash warning activates one minute before timer runs out (for use with lighting loads). Time-scrolling options available for overriding preset time. A simple reset feature returns the switch to its original preset amount.

Electronics

The Digital Time Switch operates at 24V AC or DC, with a current draw of 12mA DC or 41mA AC. No minimum load is required. A single pole, double throw isolated relay is rated for 1A @ 30V DC.

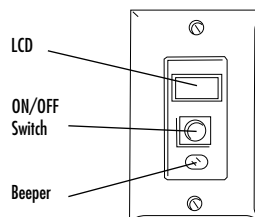
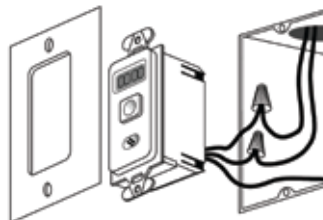
Dimensions

2.68"L x 1.69"W x 1.50"D
(68 mm x 43 mm x 38 mm)

Ordering

For ordering information, refer to page 193.

Mounting Installation



TS-200-24

Digital Time Switch



This dual-element, temperature-compensated pyroelectric sensor is ideal for areas requiring 360° sensor coverage. Typically used in open areas without racking, the low-profile sensor operates in conjunction with the SDM-100 Bi-Level Electronic Control Module (see page 190). Installation of the low voltage (24V DC) system is simple using a two-pair twisted, low-voltage wire between the bi-level module and the sensor.





SDM-100 Module

The **SDM-100** Bi-Level Electronic Control Module switches HID lamps from high to low mode and back again to high mode. Signals are received from a control device such as an occupancy sensor, time switch or controller, which activates the relay to switch to low or high mode. Ideal applications for the module are large distribution centers, warehouses, outdoor service areas and buildings that rely on a combination of natural light and HID lighting.



High Bay with
SDM-100

Features

The module offers the potential for significant energy savings by allowing lighting fixtures to operate in the low mode (about 50% reduction in power) until the area is in actual use. A fifteen-minute timer, built into the module, prevents the fixture from switching to the low mode until the lamp has been fully energized. The fixture will remain in the high mode if the space is occupied and switch to the low mode when unoccupied.

Electronics

The SDM-100 module is multi-voltage and multi-wattage (depending on the capacitor used inside the fixture) due to innovative no-load switching circuitry. The module will only operate with a CWA-type MH ballast. Presetting is not required between 120V and 480V or 250W through 1000W metal halide.

Energy Saving

Significant cost savings in both energy and system maintenance are achieved by operating the fixtures at 40 - 50% of full power and light output and immediately switching to full light when needed through the use of motion sensors, timing devices, light level monitors and computer controls.

Wiring

The SDM-100 module can be factory-installed on any 400W - 1000W MH High Bay or Low Bay fixture. Installation is simple and fast using a two-pair twisted low voltage wire. As all signals are generated at 24V DC, no special wiring is required. The module can be linked to operate in conjunction with as many fixtures as required - there is no limit! Alternately, fixtures can operate individually using a module and sensor on each fixture (see diagram).

Specifications

Lamps

MH, Pulse Start MH

Load Ratings

Metal Halide	250W - 1000W
Pulse Start Metal Halide	320W - 400W

Relay Ratings

10A @ 250V AC
(zero crossing high to low and low to high)

Total Current Output

15mA@24V DC

Maintained Signal Voltage to Trigger (Low to High)

12 micro-amps

Lamp Warm-up Upon Power-up

15 minutes

Operating Temperature Range

-10° to 104°F (-23° to 40°C)

Operating Humidity Range

0% to 95% relative, non-condensing

Weight

<1 lb.

Dimensions

1.8" H x 3.8" W x 4.6" L
(45.7 x 96.5 x 116.8 mm)

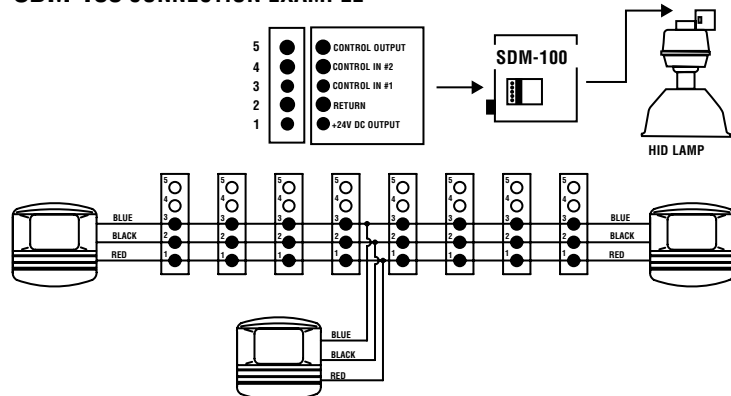
Note: For indoor use only. For use with CWA (Constant Wattage Autotransformer) ballast only

Ordering

Ordering Code H

Note: Ordering suffix code for high-2-low add H to the catalog number. (ex: JLM 0835-MH)

SDM-100 CONNECTION EXAMPLE



High-2-Low™ Lighting System Ordering Information

High-2-Low™ Components		
Catalog Number	Description	Coverage
CX-105	PIR Sensor with dense wide angle lens	Up to 2000 square feet
CX-105-1	PIR Sensor, long range	Up to 90 linear feet
CX-105-3	PIR Sensor with 2-sided aisleway lens	Up to 120 linear feet
CX-105-4	PIR Sensor with 1-sided aisleway lens	Up to 50 linear feet
CI-205	PIR Sensor with 360° Standard density lens	Up to 1200 sq feet 360°
CI-205-1	PIR Sensor 360° High density lens	Up to 500 sq feet 360°
MB-1	Industrial mount bracket for CX/CI & LS-100 sensor	
MB-2	Fixture mount bracket for CX/CI sensor for acrylic & aluminum optics	
LS-100XA	Light saver / Light sensor	Range: 10-200FC
LS-100XB	Light saver / Light sensor	Range: 50-1000FC
TS-200-24	Digital timer switch; 24V AC/DC with cover plate	
IT-100-PC	Light logger with software for PC	
PC-Cable	Connector cable for IT-100 to PC	

IT-100 Pro-Logger

Operation

Operated by lithium battery, the Pro-Logger uses passive infrared technology to detect occupancy. The module must be installed so that its lens has a clear view of the workspace and that its light pipe is aimed towards the monitored natural light. (Adjustable light pipe observes lighting levels.) During set-up, a test button activates LEDs for 90 seconds, during which time the sensitivity can be set and proper location for occupancy detection verified. This saves battery life after the unit is adjusted and in place. Once correctly installed, the IT-100 records a log entry every time there is a change in either occupancy or lighting status. A red LED blinks during occupancy detection. A green LED blinks when lighting is detected. The area is recorded as vacant when no motion is detected for five minutes. The historical data is stored and detailed for retrieval by an IBM-compatible PC via a standard RS-232 serial port.

Features

The Pro-Logger offers coverage up to 150SF and stores a maximum of 2000 entries. It stores site name to identify the area under observation. A recessed reset switch restores original settings.

Easy Installation

The IT-100 installs quickly and conveniently and requires no wiring. It attaches to a surface with a bracket and double stick tape. The Pro-Logger connects to computer for data retrieval via connector cable IT-Pro Software.

IT-100 Software

The IT-100 software lists all log entries from the IT-100 sensor, including entry number, entry date and time as well as lighting and occupancy status. Users can set the energy cost per kWh, the size of the controlled load and the site name. The software generates reports that display daily graphs of the occupancy and lighting data as well as lighting / occupancy analysis reports that project potential dollar savings and statistical information. HVAC adder accounts evaluate the potential savings resulting from the reduced expenses of cooling to remove heat from lighting. Data can be saved for future analysis and/or exported for use in other software applications. While connected, the software can reset the logger in preparation for a new logging session.

IT-100 Pro-Logger



Developed to establish the energy savings potential in a given area, the Pro-Logger records the time that a space was occupied or unoccupied, or, alternately, the time that the light levels exceeded the required minimum light levels as well as the time that light fell below those levels.





Simkar's modular wiring systems and fixtures work together to provide a total lighting solution for today's commercial and residential buildings. User-friendly and cost-effective, the Flex Modular Wiring systems save time, money and manpower when used for high bay fixture installations in warehouse and distribution centers. Designed and engineered to meet the most demanding quality standards, every Simkar modular wiring component meets rigorous ISO 9001 guidelines.

Retrofit Flexibility/Adaptability

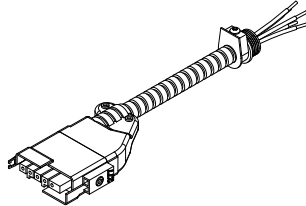
Because the Flex Series Modular Wiring systems provide the highest flexibility and versatility in fixture retrofits, changing lighting configurations in retail and commercial applications are simple and efficient. Installation in a project construction phase can be easily modified to adapt to the final phase of the project's finished fixture needs. Units also offer a 30% cost savings over traditional hardwire installation costs.

Cables

Simkar cables are manufactured from Type MC Cable featuring 90°C insulated, #12 AWG, insulated solid copper conductors and a solid copper ground. Units feature a pin and sleeve connector design and are rated for use on 20-ampere branch circuits. UL listed and labeled.

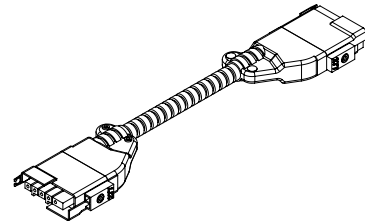
Distribution Cable

The first component of the Simkar modular wiring system, the Distribution Cable is installed through a 1/2" knockout, with power connected by conventional hard wiring. The output receptacle connects to the next modular wiring component.



The Extended Cable carries the circuit between fixtures. It has a single input plug and single output receptacle.

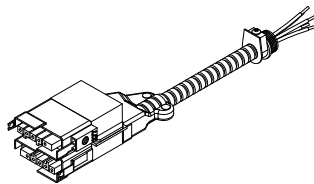
Double Headed Extender Cable



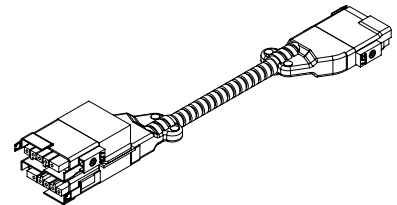
The Double Headed Extender Cable also carries the circuit between fixtures. It has a single input plug and two output receptacles that allow the circuit to divide into two different directions with the next components.

Double Headed Distribution Cable

The first component of the Simkar modular wiring system, the Double Headed Distribution Cable is installed through a 1/2" knockout, with power connected by conventional hard wiring. The two output receptacles allow the circuit to divide into two different directions with the next components.



Extender Cable

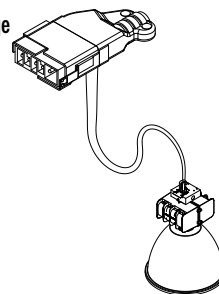


Drop Cords

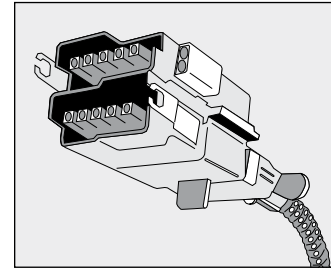
Rated for use on 20-ampere branch circuits, the fixture cord drop is manufactured from S.E.O. cord. Top conductors are 105°C insulated, #12 AWG, stranded copper. Units feature a pin and sleeve connector design and are UL listed and labeled.

Drop Cord

The Drop Cord comes attached to the specified voltage leads on a fixture's ballast. It typically measures six feet long. The Drop Cord plugs into the phase selected output on the Phase Selector.



Flex Series Ordering Information



Voltage	Catalog Number	Description
Distribution Cable		
120V	1DC15	15 ft (Standard Length)
208&240V	1DC15-HV	3-Phase Dist. Cbl.
277V	2DC15	
480V	2DC15-HV	
Double Headed Distribution Cable		
120V	1DDC15	15 ft (Standard Length)
208&240V	1DDC15-HV	3-Phase Dbl-Head Dist. Cbl.
277V	2DDC15	
480V	2DDC15-HV	
Extender Cable		
120,208&240V	1EC15-HV	15 ft 3-Phase Ext. Cbl.
	1EC20-HV	20 ft 3-Phase Ext. Cbl.
	1EC25-HV	25 ft 3-Phase Ext. Cbl.
	1EC30-HV	30 ft 3-Phase Ext. Cbl.
277&480V	2EC15-HV	15 ft 3-Phase Ext. Cbl.
	2EC20-HV	20 ft 3-Phase Ext. Cbl.
	2EC25-HV	25 ft 3-Phase Ext. Cbl.
	2EC30-HV	30 ft 3-Phase Ext. Cbl.
	2EC35-HV	35 ft 3-Phase Ext. Cbl.
Double Headed Extender Cable		
120,208&240V	1EEC15-HV	15 ft 3-Phase Dbl-Head Ext. Cbl.
	1EEC20-HV	20 ft 3-Phase Dbl-Head Ext. Cbl.
	1EEC25-HV	25 ft 3-Phase Dbl-Head Ext. Cbl.
	1EEC30-HV	30 ft 3-Phase Dbl-Head Ext. Cbl.
277&480V	2EEC15-HV	15 ft 3-Phase Dbl-Head Ext. Cbl.
	2EEC20-HV	20 ft 3-Phase Dbl-Head Ext. Cbl.
	2EEC25-HV	25 ft 3-Phase Dbl-Head Ext. Cbl.
	2EEC30-HV	30 ft 3-Phase Dbl-Head Ext. Cbl.
	2EEC35-HV	35 ft 3-Phase Dbl-Head Ext. Cbl.
Drop Cord		
120V	1CEA-W6-SC1	6 ft Drop Cord (Fixture Alpha Code: A)*
277V	2CEA-W6-SC1	6 ft Drop Cord (Fixture Alpha Code: N)*
208&240V	1CEAD-W6-SC1-HV	6 ft Drop Cord (Fixture Alpha Code: G)*
480V	2CEAD-W6-SC1-HV	6 ft Drop Cord (Fixture Alpha Code: U)*

*Insert the appropriate alpha code per voltage selection when ordering drop cord attached to fixture.
Ex: JLMA835-1, is a 350W MH/PS, 120V, J-series, 22" acrylic high bay with 1CEA-W6-SC1 drop cord and hook with safety clip.

Note: Other lengths and configurations available. Consult factory for complete system details and ordering information.



HID Lighting WALLPACKS & GARAGE LIGHTERS

Wattage Range:
HPS 35 - 70W
CFL 13 - 32W



Lamp Included

Economical and cost-effective to own and operate, the **WSS Series Wallpacks** are designed for both residential and commercial applications with mounting heights of 12' and below.

13W & 2-13W: 32°F
Temperature Rated*

18 - 32W Quad: 20°F
Temperature Rated*

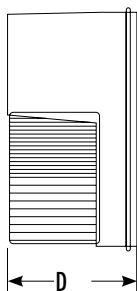
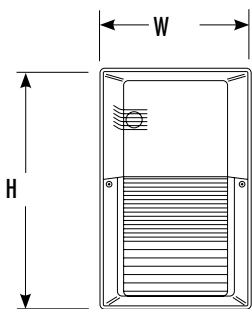
(*minimum starting temperatures)



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WSS Series	11"	6.9"	5.25"	5 lbs.



Features

Housing

The compact WSS luminaire is weatherproof and rated for outdoor use. Features a cast aluminum base plate and a polycarbonate injection molded refractor. Housing is available in either bronze or white. Access to all internal components requires the removal of only two screws. Tamperproof screws are available.

Ballast / Lamp

The high-pressure sodium version of the WSS fixture is available in 35 - 70 watt utilizing a 120V NPF ballast and a medium based lamp. The 13 watt twin tube compact fluorescent design comes standard with a bi-pin lamp and a 120V NPF ballast, while the 18 - 32 watt version is supplied with a 4-pin lamp and a 120 or 277V electronic ballast.

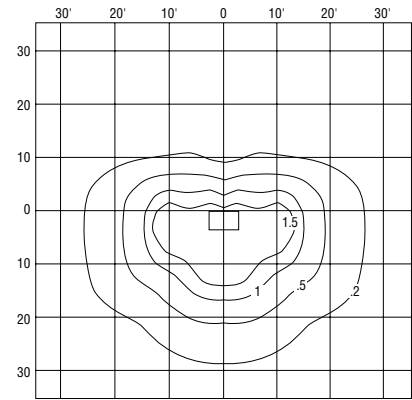
Mounting Options

The WSS Series can be surface mounted directly over a 4" recessed outlet box. Convenient conduit access on fixture base allows for easy surface mounting. Optional internal photocell is available. Recommended mounting height is 12' and below.

Photometric Data

(Isofootcandle Plots)

11" WSS



70W HPS Wallpack at 10' mounting height.

HPS-70 Watt/Clear

Mounting Height: 10'
Number of Fixtures: 2
Lamp Lumens: 6,300

The WSS Series photometric data is based on a 70 watt clear HPS lamp rated at 6,300 lamp lumens. Footcandle values for other wattages are obtained by multiplying the chart values by the following factors:

Lamp/Wattage	Factor
70W HPS	1
50W HPS	.64
35W HPS	.36

Mounting Position	Wattage Lamp	Catalog Number
Wall	35W HPS	WSS0503-1*(b)
	50W HPS	WSS0505-1*(b)
	70W HPS	WSS0507-1*(b)
	e 13W CFL	WSS0313-1*(b)
	e 18W CFL	WSS0318-U*(b)
	e 26W CFL	WSS0326-U*(b)
	e 32W CFL	WSS0332-U*(b)
	e (2) 13W CFL	WSS0323-1*(b)

*See Voltage below

Voltage	Options (b) (Factory Installed)	Accessories: (Field Installed)
1 = 120V NPF only U = 120-277 CFL	B = Button Photocell WT = White Housing	WSS-TS = Tamperproof Screws WSS-TSD = Tamperproof Screwdriver & Screws

Features

Housing

This stylish cast aluminum housing incorporates a borosilicate glass refractor, siliconed in place to provide a watertight assembly. The housing is finished in a polyester powder coat in white or bronze.

Ballast / Lamp

High-pressure sodium fixtures are supplied with either a 120V NPF reactor ballast (optional HPF available) or high-reactance multi-tap ballast. Metal Halide fixtures are provided with high-reactance or CWA multi-tap ballasts. All fixtures are supplied with medium-base lamps.

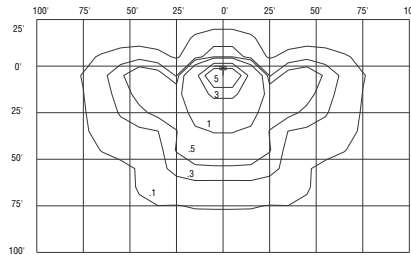
Mounting Options

The cast aluminum base plate mounts directly over a recessed outlet box or can be surface mounted using the convenient conduit access on the fixture base.

Photometric Data

(Isofootcandle Plots)

13" WPS



100W Metal Halide Wallpack at 15' mounting height.

Wattage Range:
HPS 35 - 100W
MH 50 - 100W



Lamp Included

This specification grade compact wallpack is designed for both commercial and residential applications with wall mounting height requirements of 15' and below.

WPS Wallpack Ordering Information

Mounting Position	Wattage Lamp	Catalog Number
Wall	35W HPS	WPS0503-1*(b)NPF
	50W HPS	WPS0505-1*(b)NPF
	50W HPS	WPS0505-M*(b)
	70W HPS	WPS0507-1*(b)NPF
	70W HPS	WPS0507-M*(b)
	100W HPS	WPS0510-1*(b)NPF
	100W HPS	WPS0510-M*(b)
	Ⓜ 50W PS/MH	WPS0805-M*(b)
	Ⓜ 70W PS/MH	WPS0807-M*(b)
	Ⓜ 100W PS/MH	WPS0810-M*(b)

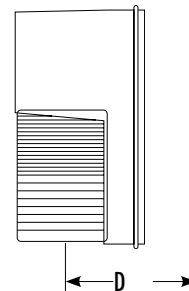
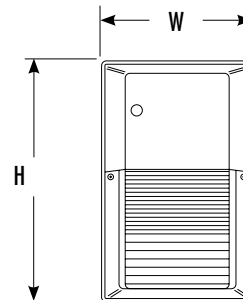
*See Voltage below

Listed for Wet Locations
Consult Factory for CUL Availability

Voltage	Options (b) (Factory Installed)	Accessories: (Field Installed)
1 = 120V (NPF only) M = Multi-tap	WT = White Housing HPF = High Power Factor (120V only - change NPF to HPF) B = Button Photocell (Must designate voltage - change "M" to "1" for 120V or "2" for 277V)	WPS-WG = Wire Guard

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WPS Series	13.0"	7.83"	5.5"	10 lbs.



Example

WPS	0	4	25	2	WT	Q
Series	Mounting	Light Source	Wattage	Voltage	Options	Accessories
WPS = 13" Die Cast Aluminum Wallpack	0 = Hard wire	4 = MH	25 = 250W	2 = 277 Volt	WT = White Housing	Q = Quartz Standby

Wattage Range:
HPS 35 - 100W
MH 50 - 70W
CFL 26-42W



Lamp Included

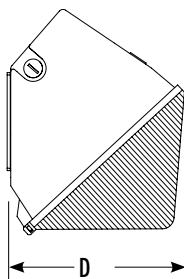
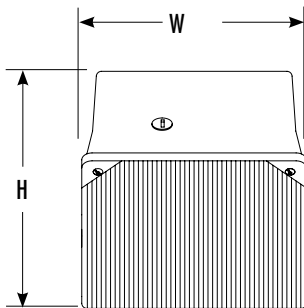
This specification grade compact wallpack is designed for both commercial and residential applications with wall mounting height requirements of 12' and below.



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

Fixture	Fixture	Fixture	Approx.
Height	Width	Depth	Ship Wt.
WPC Series	9.5"	9.0"	10 lbs.



Features

Housing

The stylish cast aluminum housing incorporates a polycarbonate refractor, which is sealed to the housing using a silicon gasket and stainless steel screws that provide a watertight lens assembly. The housing is finished in a bronze polyester powder coat.

Ballast / Lamp

High-pressure sodium fixtures are supplied with either a 120V NPF reactor ballast (optional HPF available) or high-reactance multi-tap ballast. Metal Halide fixtures are provided with high-reactance or CWA multi-tap ballasts. All fixtures are supplied with medium-based lamps. CFL fixtures include 120/277V electronic ballasts.

Lens

Impact-resistant polycarbonate lens comes standard with a UV inhibitor.

Options

The WPC Series is available with a factory-installed button photocell for 120V or 277V.

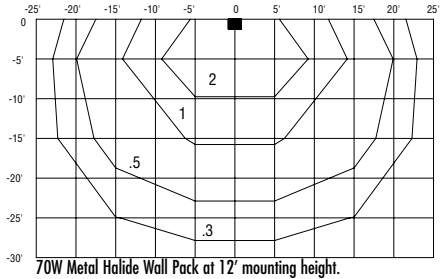
Mounting Options

The cast aluminum base plate mounts directly over a recessed outlet box or can be surface mounted using the convenient conduit access on the fixture base.

Photometric Data

(Isofootcandle Plots)

9" WPC



70W Metal Halide Wall Pack at 12' mounting height.

WPC Wallpack Ordering Information

Mounting Position	Wattage Lamp	Catalog Number
Wall	35W HPS	WPC0503-1*(b)NPF
	50W HPS	WPC0505-1(b)NPF
	50W HPS	WPC0505-M(b)
	70W HPS	WPC0507-1(b)NPF
	70W HPS	WPC0507-M(b)
	100W HPS	WPC0510-1(b)NPF
	100W HPS	WPC0510-M(b)
	e 50W PS/MH	WPC0805-M(b)
	e 70W PS/MH	WPC0807-M(b)
	e 26W CFL	WPC0326-D
	e 32W CFL	WPC0332-D
	e 42W CFL	WPC0342-D

*See Voltage below

Voltage	Options (b) (Factory Installed)
1 = 120V	HPF = High Power Factor (120V only - change NPF to HPF) B = Button Photocell (Must designate voltage - change "M" to "1" for 120V or "2" for 277V)
2 = 277V	
M = Multi-tap	
D = Dual-tap 120/277V (CFL only)	

Features

Housing

The stylish cast aluminum housing incorporates a borosilicate glass refractor, which is siliconed in place to provide a watertight lens assembly. The housing is finished in a bronze polyester powder coat.

Ballast / Lamp

High-pressure sodium fixtures are supplied with either a 120V NPF reactor ballast (optional HPF available) or high-reactance multi-tap ballast. Metal Halide fixtures are provided with high-reactance or CWA multi-tap ballasts. All fixtures are supplied with medium-based lamps.

Options

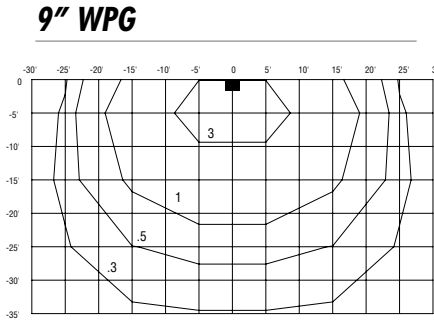
The WPG fixture is available with a factory-installed button photocell for 120V or 277V.

Mounting Options

The cast aluminum base plate mounts directly over a recessed outlet box or can be surface mounted using the convenient conduit access on the fixture base.

Photometric Data

(Isofootcandle Plots)



100W Metal Halide Wall Pack at 14' mounting height.

Wattage Range:
HPS 35 - 100W
MH 50 - 100W



Lamp Included

This specification-grade compact wallpack is designed for both commercial and residential applications with wall mounting height requirements of 14' and above.

WPG Wallpack Ordering Information

Mounting Position	Wattage Lamp	Catalog Number
Wall	35W HPS	WPG0503-1*(b)NPF
	50W HPS	WPG0505-1*(b)NPF
	50W HPS	WPG0505-M*(b)
	70W HPS	WPG0507-1*(b)NPF
	70W HPS	WPG0507-M*(b)
	100W HPS	WPG0510-1*(b)NPF
	100W HPS	WPG0510-M*(b)
	Ⓜ 50W PS/MH	WPG0805-M*(b)
	Ⓜ 70W PS/MH	WPG0807-M*(b)
	Ⓜ 100W PS/MH	WPG0810-M*(b)

*See Voltage below

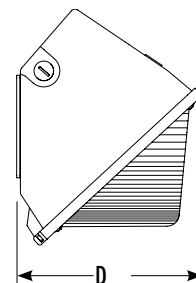
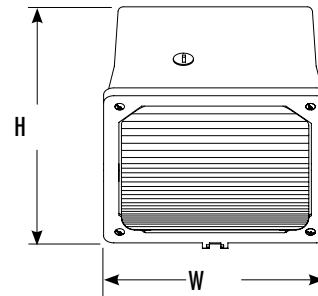
Voltage (a)	Options (b) (Factory Installed)
1 = 120V 2 = 277V M = Multi-tap	HPF = High Power Factor (120V only - change NPF to HPF) B = Button Photocell (Must designate voltage - change "M" to "1" for 120V or "2" for 277V)



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WPG Series	9.5"	9.0"	7.5"	10 lbs.



Example

WPG	0	5	05	M	B
Series	Mounting	Light Source	Wattage	Voltage	Options
WPG = 9" Compact Glass Prismatic Wallpack	0 = Hard wire	5 = HPS	05 = 50W	M = Multi-tap	B = Button photocell

Wattage Range:
150 - 400W



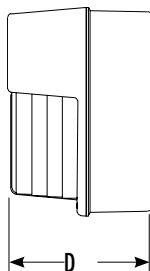
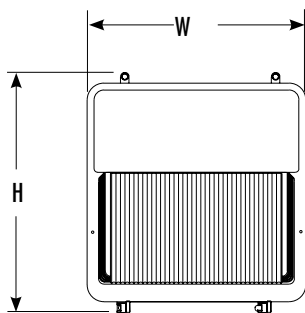
Lamp Included

This all-weather fixture provides maximum wattage in a small package. In addition to being an effective security or accent light, the slim-line design of the WPL Series makes it aesthetically pleasing. Specially-designed optics provide maximum light spread, making the WPL Series an extremely efficient and powerful wallpack.

 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WPL Series	15.75"	15.75"	7.25"	25 lbs.



Features

Housing

Compact cast aluminum housing is designed to provide maximum wattage in a small package.

Ballast

All fixtures come standard with a CWA high-power factor multi-tap or a 480V metal halide ballast. Pulse start metal halide and high-pressure sodium ballasts are available.

Lamps

A compact, heat-dissipating design allows up to 400W metal halide, pulse start metal halide and high-pressure sodium lamps.

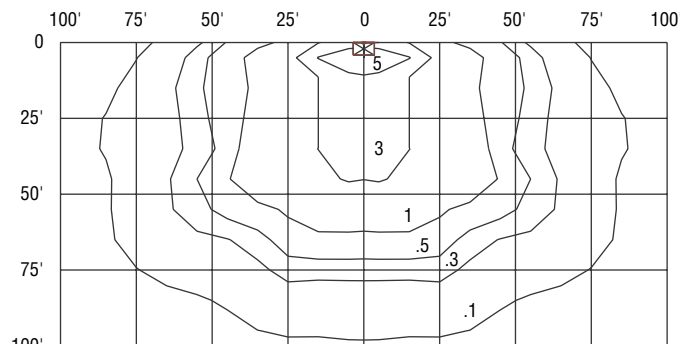
Mounting Options

The WPL Series has convenient conduit access on all sides for easy surface wiring. Rear 1/2" knockouts allow for mounting over a 3" or 4" recessed outlet box. Units wall mount or surface mount to concrete, brick, or steel using additional knockouts.

Photometric Data

(Isofootcandle Plots)

15" WPL



400W Metal Halide Wallpack at 20' mounting height.

WPL Wallpack Ordering Information

Mounting Position	Wattage Lamp	Catalog Number
Wall	☑ 150W PS/MH	WPL0815-(a)(b)
	175W MH	WPL0417-(a)(b)
	☑ 200W PS/MH	WPL0820-(a)(b)
	250W MH	WPL0425-(a)(b)
	☑ 250W PS/MH	WPL0825-(a)(b)
	☑ 320W PS/MH	WPL0832-(a)(b)
	☑ 350W PS/MH	WPL0835-(a)(b)
	400W MH	WPL0440-(a)(b)
	☑ 400W PS/MH	WPL0840-(a)(b)
	150W HPS	WPL0515-(a)(b)
	250W HPS	WPL0525-(a)(b)
	400W HPS	WPL0540-(a)(b)

Voltage (a)	Options (b) (Factory Installed)	Accessories (Field Installed)
1 = 120V 2 = 277V 3 = 208V 4 = 240V 5 = 480V	BK = Black Housing WT = White Housing (Custom Colors Available: Consult factory for pricing and delivery)	PT-20 = Photocell

General illumination guidelines in footcandles

Building Exteriors

Area	Horizontal Illuminance	Vertical Illuminance
Active entrances (pedestrian and/or conveyance)	5	3
Inactive entrances (normally locked, infrequently used)	3	3
Prominent Structures	5	3

Parking Garages

Area	Horizontal Illuminance (min)	Vertical Illuminance (min)	Horizontal Uniformity Ratio (max/min)
Basic	1	0.5	10/1
Ramps			
Day	2	1	10/1
Night	1	0.5	10/1
Entrance Areas			
Day	50	25	
Night	1	.5	10/1

Pedestrian Walkways

Classification	Minimum Average Horizontal Illuminance	Minimum Average Vertical Levels for Special Pedestrian Security
Sidewalks and Type A bikeways		
Commercial Areas	1	2.2
Intermediate Areas	0.6	1.1
Residential Areas	0.2	0.5
Walkways distant from roadways and Type B bikeways		
Walkways, bikeways, and stairways	0.5	0.5
Pedestrian Tunnels	4.3	5.4

Service Stations

Area	Horizontal Illuminance	Vertical Illuminance
Light Surrounding		
Approach	2	0.5
Driveway	2	0.5
Pump Island area	5	3
Building Faces (exclusive of glass)	3	3
Service Areas	3	3
Landscape Highlights	2	0.5
Dark Surrounding		
Approach	1.5	0.5
Driveway	1.5	0.5
Pump Island area	3	3
Building Faces (exclusive of glass)	2.0	0.5
Service Areas	2.0	0.5
Landscape Highlights	1.0	0.3

The above guidelines are based on IES recommendations only.

Wattage Range:
MH 50 - 175W
CFL 26-84W



Lamp Included

Designed for 12 to 18 foot mounting heights, the **WSM Wallpack** efficiently lights walkways, building exteriors, loading docks, bridges and most security areas with a wide light distribution.

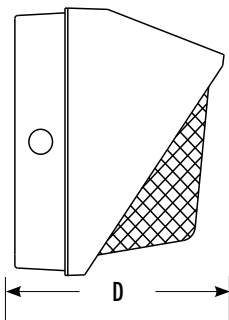
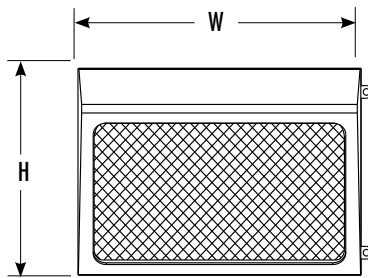
40°C Ambient Rated

 Listed for Wet Locations
Consult Factory for CUL Availability



Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WSM Series	9"	13"	7.5"	15 lbs.



Features

Housing

The bronze die-cast aluminum housing, thick prismatic glass refractor and stainless steel hardware together make the WSM Series resistant to weather and vandalism.

Ballast

The 50-150W pulse start metal halide fixtures utilize a multi-tap high reactance ballast. The 175W metal halide fixture is provided with either a constant wattage multi-tap or 480V ballast. HPS fixtures can be ordered with a 120V NPF reactor ballast or a multi-tap high reactance HPF ballast. 120V reactor ballasts can be ordered with optional HPE. 150W high pressure sodium fixtures are also available with 480V ballasts.

Lamps

The WSM Series comes standard with a medium base lamp. The 175 watt metal halide can be ordered with an optional mogul base lamp.

Lens

Both the door and prismatic glass lens utilize weatherproof silicone gasketing to seal out contaminants.

Access / Wiring

The side-hinged door opens easily using two captive stainless steel screws to provide easy access to internal components. Wiring options include

mounting over a 4" recessed junction box or surface mounting using convenient conduit entries located on side and bottom of fixture. Additional knockouts are provided for optional photocell.

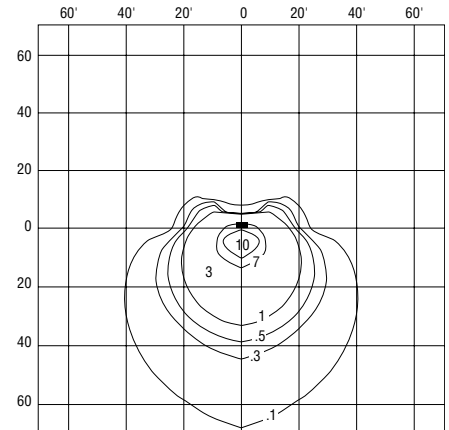
Mounting Options

The recommended wall mounting height is 12' to 18'.

Photometric Data

(Isofootcandle Plots)

13" WSM



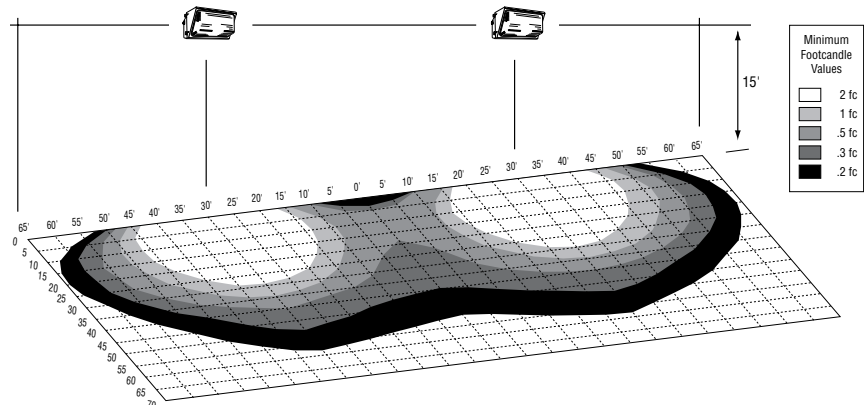
175W MH Wallpack at 15' mounting height.

MH-175 Watt/Clear

Mounting Height: 15'
Number of Fixtures: 2
Lamp Lumens: 12,800

The WSM Series photometric data is based on a 175 watt clear MH lamp rated at 12,800 lamp lumens. Footcandle values for other wattages are obtained by multiplying the chart values by the following factors:

Lamp/Wattage	Factor	Lamp/Wattage	Factor
150W PS/MH	.90	100W HPS	.71
100W PS/MH	.58	70W HPS	.47
70W PS/MH	.31	50W HPS	.30
50W PS/MH	.25		



WSM Wallpack Ordering Information

Mounting Position	Wattage Lamp	Catalog Number
Wall	Ⓜ 50W PS/MH	WSM0805-M*(b)
	Ⓜ 70W PS/MH	WSM0807-M*(b)
	Ⓜ 100W PS/MH	WSM0810-D*(b)
	Ⓜ 150W PS/MH	WSM0815-M*(b)
	175W MH	WSM0417-M*(b)
	175W MH (MOGUL)	WSM9417-M*(b)
	50W HPS 120V (NPF)	WSM0505-1*(b) NPF
	50W HPS	WSM0505-M*(b)
	70W HPS 120V (NPF)	WSM0507-1*(b) NPF
	70W HPS	WSM0507-M*(b)
	100W HPS 120V (NPF)	WSM0510-1*(b) NPF
	100W HPS	WSM0510-M*(b)
	150W HPS 120V (NPF)	WSM0515-1*(b) NPF
	150W HPS	WSM0515-M*(b)
	Ⓜ 26W CFL	WSM0326-D*
	Ⓜ 32W CFL	WSM0332-D*
	Ⓜ 42W CFL	WSM0342-D*
	Ⓜ (2) 26W CFL	WSM0352-D*
	Ⓜ (2) 32W CFL	WSM0364-D*
	Ⓜ (2) 42W CFL	WSM0384-D*

*See Voltage below

Voltage	Options (b) (Factory Installed)	Accessories (Field Installed)
1NPF = 120V (HPS only) 5 = 480V (available only in 175W MH & 150W HPS) D = Dual Voltage 120/277Vs (CFL only) M = Multi-tap, tapped @ 277V	HPF = High Power Factor (HPS 120V only - change NPF to HPF) WT = White Housing BK = Black Housing (x)B = Button Photocell Designate voltage (x): 1 = 120V 2 = 277V 3 = 208V 4 = 240V	WGM = Wire Guard PGM = Polycarbonate Guard (Vandal Shield) WSM-TS = Tamperproof Screws (not shown) WSM-TSD = Tamperproof Screws & Screwdriver (not shown) <u>Glare Shields</u> WSM-GS = Side Cutoff WSM-GSF = Full Cutoff

Example

Series	Mounting	Light Source	Wattage	Voltage	Options
WSM = 13" Wallpack	0 = Hard wire	5 = HPS	05 = 50W	M = Multi-tap	WT = White housing

Accessories



Wire Guard

Ordering Code
WGM



Vandal Shield

Ordering Code
PGM



Glare Shield Side Cutoff

Ordering Code
WSM-GS



Full Cutoff Shield

Ordering Code
WSM-GSF



Lamp Included

Designed for 18 to 24 foot mounting heights, the **WSL Wallpack** delivers high light levels over a very large area for offices, schools, shopping complexes, garages and walkways.

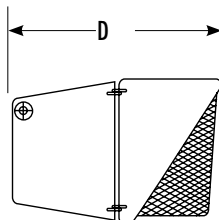
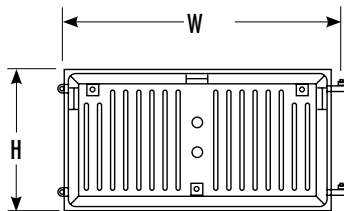
40°C Ambient Rated



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WSL Series	9"	18"	13"	26 lbs.



Features

Housing

The bronze die-cast aluminum housing, thick prismatic glass refractor and stainless steel hardware together make the WSL Series Wallpacks resistant to both weather and vandalism.

Ballast

All HID fixtures come standard with a CWA high-power factor, multi-tap or 480V ballast. CFL fixtures include 120/277V electronic ballasts.

Lamps

The WSL luminaire uses mogul base, metal halide lamps (175 - 400W) and HPS (250-400W) lamps. (Note: To increase light levels by 20%, specify a pin-oriented socket using a MS400/HOR.) CFL Fixtures include 4-pin quad lamps.

Access / Wiring

The side-hinged door opens easily using two captive stainless steel screws to provide easy access to internal components. Wiring options include mounting over a 4" recessed junction box or surface mounting using convenient conduit entries located on side and bottom of fixture. Additional knockouts are provided for optional photocell.

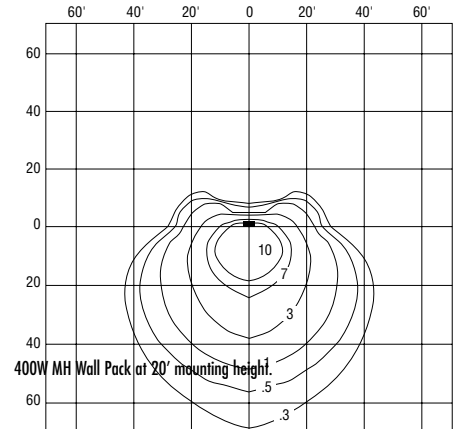
Mounting Options

The recommended wall mounting height is 18' to 24'. Units include rear 1/2" conduit points access with drill points for mounting.

Photometric Data

(Isofootcandle Plots)

18" WSL

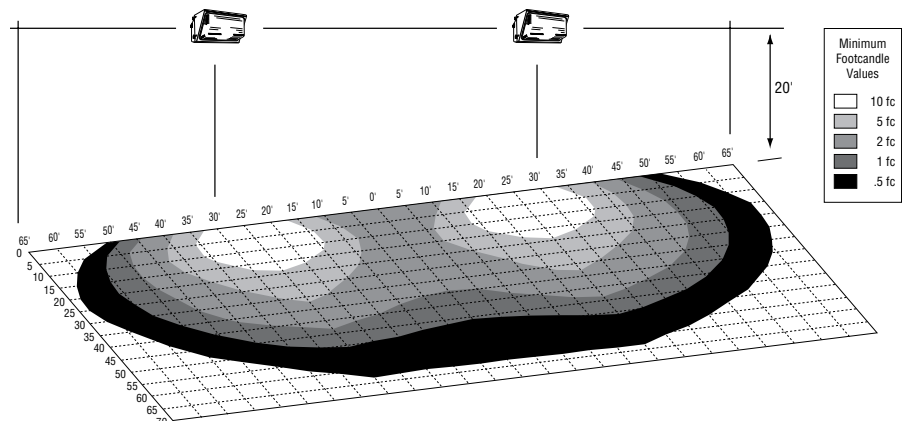


MH-400 Watt/Clear

Mounting Height: 20'
Number of Fixtures: 2
Lamp Lumens: 32,000

The WSL Series photometric data is based on a 400 watt clear MH lamp rated at 32,000 lamp lumens. Footcandle values for other wattages are obtained by multiplying the chart values by the following factors:

Lamp/Wattage	Factor	Lamp/Wattage	Factor
400W MH/HOR	1.20	400W HPS	1.56
400W MH	1.00	250W HPS	.91
250W MH	.63		



WSL Wallpack Ordering Information

Mounting Position	Wattage Lamp	Catalog Number
Wall	175W MH	WSL0417-(a)(b)
	ⓐ 200W PS/MH	WSL0820-(a)(b)
	250W MH	WSL0425-(a)(b)
	ⓐ 250W PS/MH	WSL0825-(a)(b)
	ⓐ 320W PS/MH	WSL0832-(a)(b)
	ⓐ 350W PS/MH	WSL0835-(a)(b)
	400W MH	WSL0440-(a)(b)
	ⓐ 400W PS/MH	WSL0840-(a)(b)
	400W MS/HOR	WSL0740-(a)(b)
	Position-oriented socket	
	250W HPS	WSL0525-(a)(b)
	400W HPS	WSL0540-(a)(b)
	ⓐ (2) 26W CFL	WSL0352-D*
	ⓐ (2) 32W CFL	WSL0364-D*
	ⓐ (2) 42W CFL	WSL0384-D*

*Dual-tap 120/277V (CFL only)

Voltage (a)	Options (b) (Factory Installed)	Accessories (Field Installed)
5 = 480V M = Multi-tap tapped @ 277V MS = 120 - 480V 400 W MH Only D = Dual-tap 120/277V (CFL only)	(x)B = Button Photocell -designate voltage (x): 1 = 120V 2 = 277V 3 = 208V 4 = 240V WT = White Housing BK = Black Housing	WGL = Wire Guard PGL = Polycarbonate Guard (Vandal Shield) PT-20 = External Photocell WSL-TS = Tamperproof Screws (not shown) WSL-TSD = Tamperproof Screws & Screwdriver (not shown) <u>Glare Shields</u> WSL-GS = Side Cutoff WSL-GSF = Full Cutoff

Example

WSL	0	4	17	M	WT
Series	Mounting	Light Source	Wattage	Voltage	Options
WSL = 18" Wallpack	0 = Hard wire	4 = MH	17 = 175W	M = Multi-tap	WT = White Housing

Accessories



Wire Guard

Ordering Code
WGL



Vandal Shield

Ordering Code
PGL



Glare Shield Side Cutoff

Ordering Code
WSL-GS



Full Cutoff Shield

Ordering Code
WSL-GSF



The **WFM/WFL** Series Wallpacks offer a wide light distribution with controlled light spillage. These versatile fixtures can be mounted up or down to direct lighting to specific areas. The **WFM** model is designed for 12' to 18' mounting heights while the **WFL** can be mounted at heights of 18' - 24'.
40°C Ambient Rated

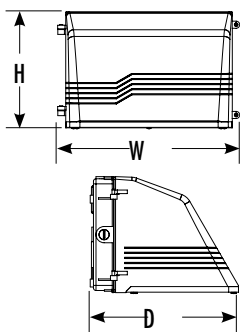


 Listed for Wet Locations
Consult Factory for CUL Availability

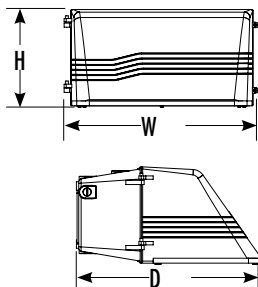
Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WFM Series	9"	13"	11.5"	15 lbs.
WFL Series	9"	18"	17.2"	26 lbs.

WFM Series



WFL Series



Features

Housing

The bronze die-cast aluminum housing, thick prismatic glass refractor and stainless steel hardware together make the WFM & WFL Series Full Cutoff Wallpacks resistant to both weather and vandalism. Dark sky compliant.

Ballast

The 50-150W pulse start metal halide fixtures utilize a multi-tap high reactance ballast. The 175W metal halide fixture is provided with either a constant wattage multi-tap or 480V ballast. HPS fixtures can be ordered with a 120V NPF reactor ballast or a multi-tap high reactance HPF ballast. 120V reactor ballasts can be ordered with optional HPF. 150W high pressure sodium fixtures are also available with 480V ballasts. All sizes of the WFL Wallpacks are supplied with a constant wattage HPF multi-tap or 480V ballast. CFL fixtures include 120/277V electronic ballasts.

Lamps

The WFM luminaire uses a medium base metal halide lamp (50 - 175W) or a medium base HPS lamp (50 - 150W). The WFL luminaire uses mogul base, metal halide lamps (175 - 400W) and HPS (250-400W) lamps. CFL Fixtures include 4-pin quad lamps.

Lens

Both the door and prismatic glass lens utilize weatherproof silicone gasketing to seal out contaminants.

Access / Wiring

The side-hinged door opens easily using two captive stainless steel screws to provide easy access to internal components. Wiring options include mounting over a 4" recessed junction box or surface mounting using convenient conduit entries located on side and

bottom of fixture. Additional knockouts are provided for optional photocell.

Mounting Options

The recommended wall mounting height of the WFM Wallpack is 12' to 18'. The recommended wall mounting height of the WFL Series is 18' to 24'. Units include rear 1/2" conduit holes access with drill points for mounting.



Dark Sky compliant when mounted in down position



Both the WFM and WFL Series fixtures can be pointed up or down to provide directed lighting in specific areas.

W Series Wallpack Ordering Information

Series	Wattage Lamp	Catalog Number
WFM Series 13" Wallpack		
Wall	☑ 50W PS/MH	WFM0805-M*(b)
	☑ 70W PS/MH	WFM0807-M*(b)
	☑ 100W PS/MH	WFM0810-M*(b)
	☑ 150W PS/MH	WFM0815-M*(b)
	175W MH	WFM0417-M*(b)
	175W MH (MOGUL)	WFM9417-M*(b)
	50W HPS 120V (NPF)	WFM0505-1*(b) NPF
	50W HPS	WFM0505-(a)(b)
	70W HPS 120V (NPF)	WFM0507-1*(b) NPF
	70W HPS	WFM0507-(a)(b)
	100W HPS 120V (NPF)	WFM0510-1*(b) NPF
	100W HPS	WFM0510-(a)(b)
	150W HPS 120V (NPF)	WFM0515-1*(b) NPF
	150W HPS	WFM0515-M*(b)
	☑ (2) 26W CFL	WFM0352-D*
	☑ (2) 32W CFL	WFM0364-D*
	☑ (2) 42W CFL	WFM0384-D*
WFL Series 18" Wallpack		
Wall	175W MH	WFL0417-(a)(b)
	☑ 200W PS/MH	WFL0820-(a)(b)
	250W MH	WFL0425-(a)(b)
	☑ 250W PS/MH	WFL0825-(a)(b)
	☑ 320W PS/MH	WFL0832-(a)(b)
	☑ 350W PS/MH	WFL0835-(a)(b)
	400W MH	WFL0440-(a)(b)
	☑ 400W PS/MH	WFL0840-(a)(b)
	250W HPS	WFL0525-(a)(b)
	400W HPS	WFL0540-(a)(b)
	☑ (2) 32W CFL	WFL0364-D*
	☑ (2) 42W CFL	WFL0384-D*

*See Voltage below

Voltage (a)	Options (b) (Factory Installed)
1 = 120V 2 = 277V 3 = 208V 4 = 240V 5 = 480V (150W and above only) M = Multi-tap; tapped @ 277V D = Dual-tap 120/277V (CFL only)	HPF = High Power Factor (HPS 120V only - change NPF to HPF) WT = White Housing BK = Black Housing B = Button Photocell (Must designate voltage - change M to "1" for 120 V or "2" for 277 V)

Example

WFL	0	4	17	M	WT
Series	Mounting	Light Source	Wattage	Voltage	Options
WFL = 18" Full Cutoff Wallpack	0 = Hard wire	4 = MH	17 = 175W	M = Multi-tap	WT = White Housing

Wattage Range:
100W and 175 MH
150W HPS and PS/MH



Lamp Included

This crescent-shaped, surface mount wallpack is ideal for parking areas, entrances, walkways, underpasses, loading docks, recreation areas and tunnels.



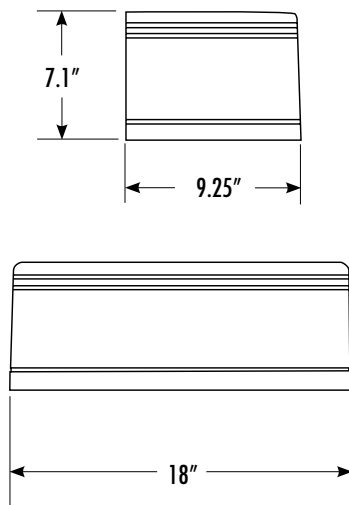
Dark Sky compliant when mounted in down position



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WCM Series	7.1"	18"	9.25"	12.87 lbs.



Features

Housing

Heavy-duty die cast aluminum housing is powder-coated in a dark architectural bronze color. Silicone rubber prevents any leakage due to outside elements.

Ballast

The 175W MH version is furnished with a high power factor, constant wattage multi-tap ballast. The 100W MH and 150W HPS versions are furnished with a high power factor, high reactance multi-tap ballast.

Lamps

Fixtures are supplied with medium base lamps.

Reflector

One-piece anodized aluminum designed reflector for best light efficiency.

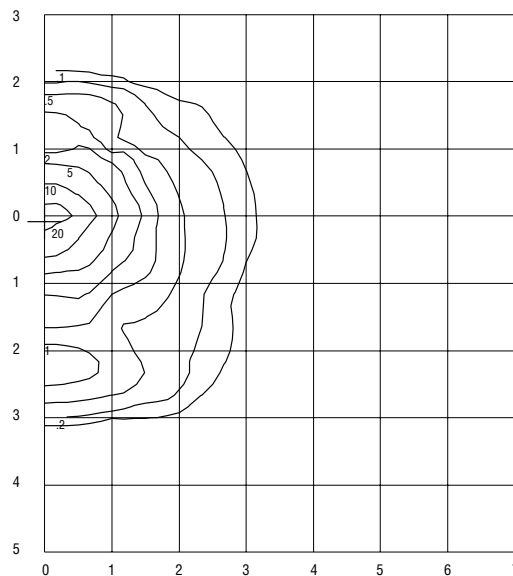
Mounting Options

The WCM series wallpack is easy to install directly to a 4" recessed outlet box or 1/2" surface conduit into a 1/2" threaded bushing. Built-in level for easy, accurate installation.

Photometric Data

(Isofootcandle Plots)

18" WCM



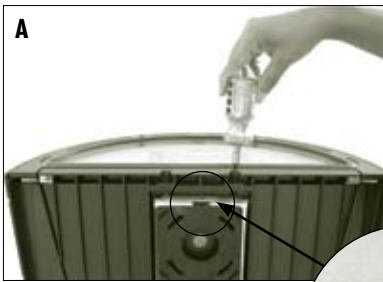
Distance in Units of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown as Dashed Curve
(+) = Maximum Candela Point
Cat. # WCM0417-M

WCM Series Ordering Information

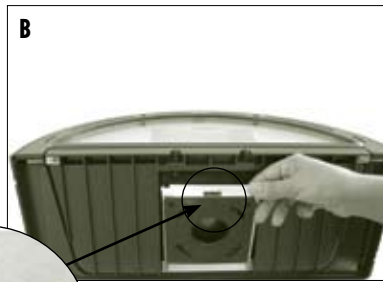
Mounting Position	Wattage Lamp	Catalog Number
	☑ 100 watt PS/MH	WCM0810-M*
Wall	175 watt MH	WCM0417-M*
	150 watt HPS	WCM0515-M*
	150 watt PS/MH	WCM0815-M*

*Multi-tap tapped @277

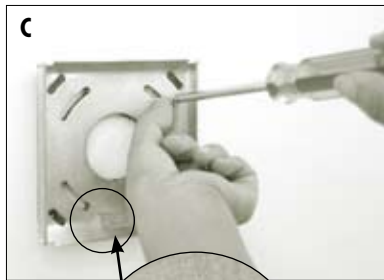
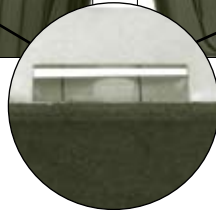
WCM Mounting Procedure



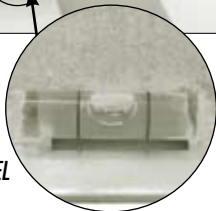
Remove mounting screws from fixture



Gently pull the mounting plate and gasket from the housing



Install plate to the mounting surface utilizing the integrated level



INTEGRATED LEVEL



Connect wires and mount fixture to the plate



Reinstall mounting screws

Wattage Range:
GCS 35 - 70W
GCS 18-24W CFL

GVV 50 - 175W
GVV 26-84W CFL



Lamp Included

The rugged and tamperproof design of the **GCS** and **GVV** Series Canopy Lighters make them ideal for schools, recreation areas, garages, hotels/motels and institutions.

Features

Housing

Housings are made of a die-cast heavy aluminum, coated with a polyester powder coat. Available with either standard or tamperproof screws.

Ballast

High-pressure sodium fixtures are supplied with either a 120V NPF reactor ballast (optional HPF available) or high-power factor multi-tap ballast. Metal halide fixtures are provided with high-reactance or CWA multi-tap ballasts. A 480V ballast is available in 175 wall metal halide only. The fluorescent utilizes a 120V normal power factor ballast for the 13W version. All other CFL fixtures are supplied with a 120/277V electronic Ballast.

Lamps

The GCS Series utilizes twin 9W fluorescent or medium base HPS or metal halide lamps. The GVV Series uses twin 13W fluorescent, 4-pin quad CFL, medium base HPS or metal halide lamps.

Optics

The clear prismatic polycarbonate refractor, with UV inhibitors, minimizes discoloration.

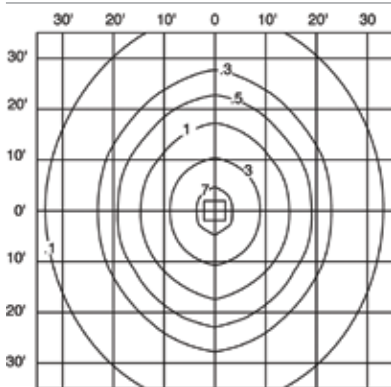
Mounting Options

The GCS and GVV fixtures are designed for ceiling mounting to concrete and steel only and are UL listed for wet locations.

Photometric Data

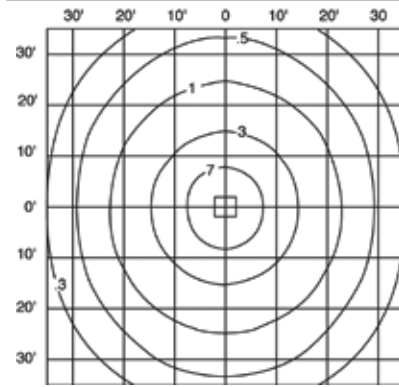
(Isofootcandle Plots)

8" GCS



70W HPS GCS Series at 10' mounting height.

12" GVV



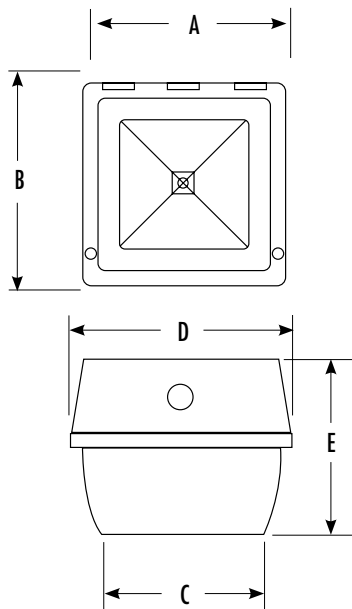
150W HPS GVV Series at 15' mounting height.



Listed for Wet Locations
Consult Factory for CUL Availability

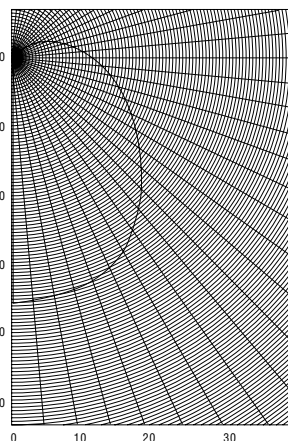
Dimensions

	A	B	C	D	E	Approx. Ship Wt.
GCS Series	8.6"	8.6"	8"	9"	7.4"	15 lbs.
GVV Series	12"	12"	12"	12.5"	8.5"	17 lbs.



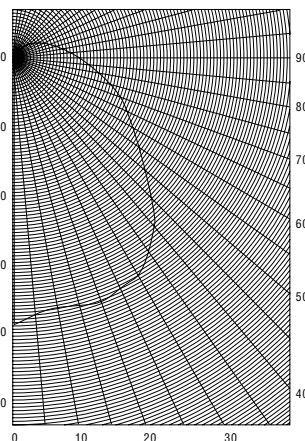
8" Square Prismatic Photometric Data

Curve #: GCS507.IES
Lamp: High Pressure Sodium
Wattage: 70W
Lumens: 6,300
Lens: Polycarbonate



12" Square Prismatic Photometric Data

Curve #: GVV515.IES
Lamp: High Pressure Sodium
Wattage: 150W
Lumens: 16,000
Lens: Polycarbonate



GCS Series Ordering Information

Housing Size (sq.)	Wattage Lamp	Catalog Number
8"	☒ 50W PS/MH	GCS3805-M*
	☒ 70W PS/MH	GCS3807-M*
	35W HPS (NPF)	GCS3503-1*(b) NPF
	50W HPS	GCS3505-(a)(b)
	70W HPS	GCS3507-(a)(b)
	☒ (2) 9W CFL	GCS3329-1*
	☒ 26W CFL	GCS3326-D*
	☒ 32W CFL	GCS3332-D*
	☒ 42W CFL	GCS3342-D*

*See Voltage below

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field-Installed)
1 = 120V HPS Only (NPF) M = Multi-tap tapped @ 277V D = Dual-tap 120/277V (CFL only)	HPF = High Power Factor (120V HPS only)	GCS-TS = Tamperproof Screws (not shown) GCS-TSD = Tamperproof Screwdriver & Screws (not shown)

GVV Series Ordering Information

Housing Size (sq.)	Wattage Lamp	Catalog Number
12"	☒ 50W PS/MH	GVV3805-M*(b)
	☒ 70W PS/MH	GVV3807-M*(b)
	☒ 100W PS/MH	GVV3810-M*(b)
	☒ 150W PS/MH	GVV3815-M*(b)
	175W MH	GVV3417-M*(b)
	50W HPS	GVV3505-(a)(b)
	70W HPS	GVV3507-(a)(b)
	100W HPS	GVV3510-(a)(b)
	150W HPS	GVV3515-(a)(b)
	☒ (2) 13W CFL (120V only)	GVV3323-1*
	☒ (2) 26W CFL	GVV3352-D*
	☒ (2) 32W CFL	GVV3364-D*
	☒ (2) 42W CFL	GVV3384-D*

*See Voltage below

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field-Installed)
1 = 120V (HPS, NPF only) 5 = 480V (175W MH only) M = Multi-tap; tapped @ 277V D = Dual-tap 120/277V (CFL only)	HPF = High Power Factor (120V HPS only) Q = Quartz Standby - Hot/Cold Type (50W - 150W only) WT = White	GVV-TS = Tamperproof Screws (not shown) GVV-TSD = Tamperproof Screwdriver & Screws (not shown)

Example

GCS	3	3	26	D
Series	Mounting	Light Source	Wattage	Voltage
GCS = 8" Square Canopy Lighter	3 = Ceiling	3 = CFL	26 = 26W	D = Dual tap

Wattage Range:
GRS 35 - 70W
GRM 35 - 150W



Lamp Included

Spreading illumination efficiently at low to medium mounting heights (8 to 15'), the **GRS** and **GRM** Series Canopy Lighters' round design blends easily into most architectural elements.

Features

Housing

Housings are constructed of heavy gauge steel and finished with a five-stage powder coat finish in bronze. A neoprene gasket seals out moisture, dust, and insects.

Ballast

High-pressure sodium fixtures are supplied with either a 120V NPF reactor ballast (optimal HPF available) or high-power factor multi-tap ballast. Metal halide fixtures are provided with high-reactance or CWA multi-tap ballasts. The fluorescent utilizes a 120V normal power factor ballast.

Lamps

Medium base lamps are provided on all high-pressure sodium and metal halide fixtures. The lamp is mounted horizontally. Twin fluorescent lamps are also available: 9W for the GRS and 13W for the GRM.

Optics

The multi-patterned injection molded polycarbonate refractor contains ultra violet inhibitors that minimize discoloration. Tamperproof screws available.

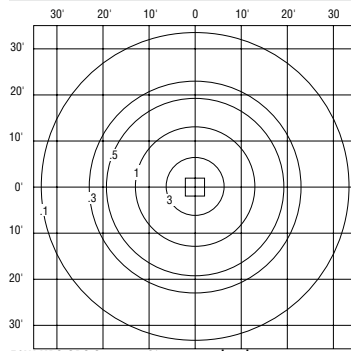
Mounting Options

Primarily utilized in ceiling mounted applications requiring a UL wet label certification. The GRS and GRM Series fixtures can also be wall mounted with UL damp label certification. A 1/2" knock out near the center of the housing back, as well as four 1/2" knock outs evenly spaced around sidewalls, provide conduit access for wiring.

Photometric Data

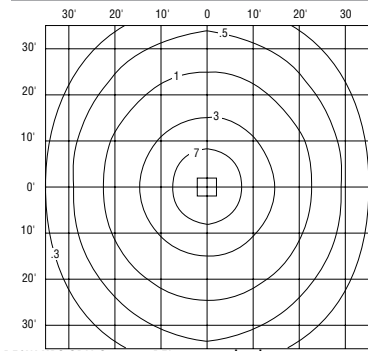
(Isofootcandle Plots)

11" GRS



50W HPS GRS Series at 8' mounting height.

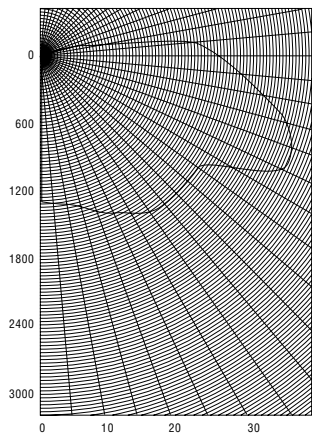
15" GRM



150W HPS GRM Series at 15' mounting height.

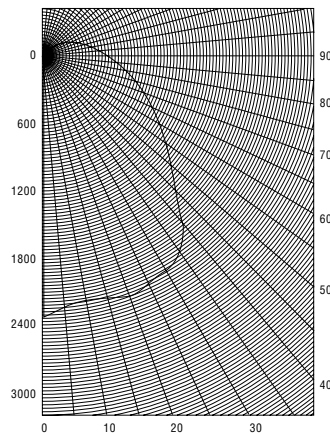
11" Round Prismatic Photometric Data

Curve #: GRS505.IES
Lamp: High Pressure Sodium
Wattage: 50W
Lumens: 4,000
Lens: Polycarbonate



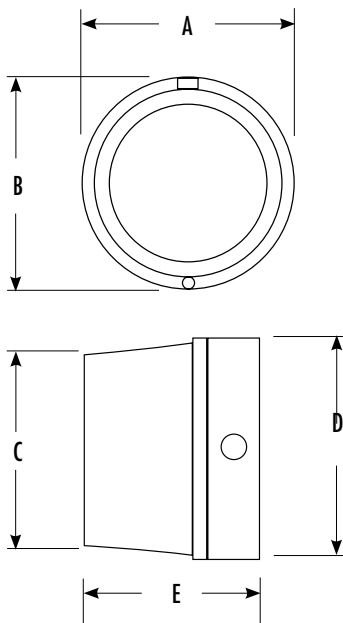
15" Round Prismatic Photometric Data

Curve #: GRM515.IES
Lamp: High Pressure Sodium
Wattage: 150W
Lumens: 16,000
Lens: Polycarbonate



Dimensions

	A	B	C	D	E	Approx. Ship Wt.
GRS Series	11"	11"	9.5"	11"	7.375"	14 LBS.
GRM Series	15"	15"	13.06"	15"	8"	16 LBS.



GR Series Ordering Information

Housing Size (sq.)	Wattage Lamp	Wall Mount Catalog Number	Ceiling Mount Catalog Number
GRS 11"	Ⓜ 50W PS/MH	GRS0805-M*(b)	GRS3805-M*(b)
	Ⓜ 70W PS/MH	GRS0807-M*(b)	GRS3807-M*(b)
	35W HPS	GRS0503-1*(b) NPF	GRS3503-1*(b) NPF
	50W HPS	GRS0505-1*(b) NPF	GRS3505-1*(b) NPF
	70W HPS	GRS0507-1*(b) NPF	GRS3507-1*(b) NPF
GRM 15"	Ⓜ 50W PS/MH	GRM0805-M*(b)	GRM3805-M*(b)
	Ⓜ 70W PS/MH	GRM0807-M*(b)	GRM3807-M*(b)
	Ⓜ 100W PS/MH	GRM0810-M*(b)	GRM3810-M*(b)
	Ⓜ 150W PS/MH	GRM0815-M*(b)	GRM3815-M*(b)
	35W HPS	GRM0503-1*(b) NPF	GRM3503-1*(b) NPF
	50W HPS	GRM0505-1*(b) NPF	GRM3505-1*(b) NPF
	70W HPS	GRM0507-1*(b) NPF	GRM3507-1*(b) NPF
100W HPS	GRM0510-1*(b) NPF	GRM3510-1*(b) NPF	
150W HPS	GRM0515-1*(b) NPF	GRM3515-1*(b) NPF	

*See Voltage below

Voltage	Options (b) (Factory Installed)	Accessories: (Field-Installed)
I = 120V (30-150 HPS only (NPF)) M = Multi-tap tapped @ 277V	HPF = High Power Factor (120V HPS only) WT = White Housing	GRS GRS-TS = Tamperproof Screws GRS-TSD = Tamperproof Screwdriver & Screws GRM GRM-TS = Tamperproof Screws GRM-TSD = Tamperproof Screwdriver & Screws

Example

Series	Mounting	Light Source	Wattage	Voltage	Options
GRS = 11" Round Canopy Lighter	0 = Hard wire	8 = PS/MH	05 = 50W	M = Multi-tap	WT = White Housing

Mountings



Wall



Ceiling

Wattage Range:
50 - 175W



Lamp Included

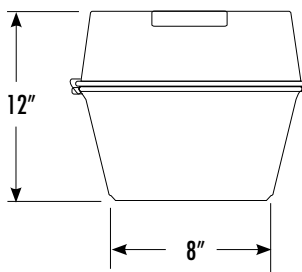
While only 12" high, the **GLX Series** Garage Lighter delivers maximum light distribution from its acrylic refractor. Designed for the low profile needs of parking garages, it is the perfect security fixture.

55°C Ambient Rated

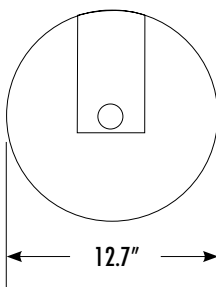
 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Lens Width	Fixture Width	Fixture Height	Approx. Ship Wt.
GLX Series	8"	12.7"	12"	15 LBS.



Top View



Features

Housing

The bronze die-cast aluminum housing has a polyester powder coat finish that resists corrosion as well as the dirt and oil compounds normally found in parking garages.

Ballast

All fixtures are supplied with a high-power factor, high-reactance or CWA ballast.

Lamps

The GLX Series is available in 175W metal halide, 50 - 175W pulse start metal halide and 50W - 150W HPS lamp types. All lamps are supplied in a medium base.

Optics

The strong acrylic prismatic refractor delivers light consistently in a 360° pattern and its vertical burn lamp provides maximum light output. The extra thick non-yellowing acrylic lens resists the abuse typical of parking facilities. The 175W metal halide lens is high-temperature acrylic.

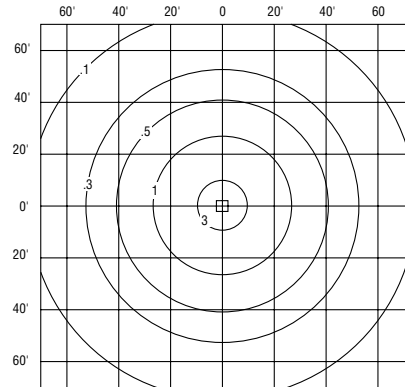
Mounting Options

The exclusive adjustable slide box mounts directly to a 3/4" threaded conduit or a standard 4" round box. This allows the GLX series fixture to be safely disconnected from the junction box, making maintenance and/or replacement both quick and easy.

Photometric Data

(Isofootcandle Plots)

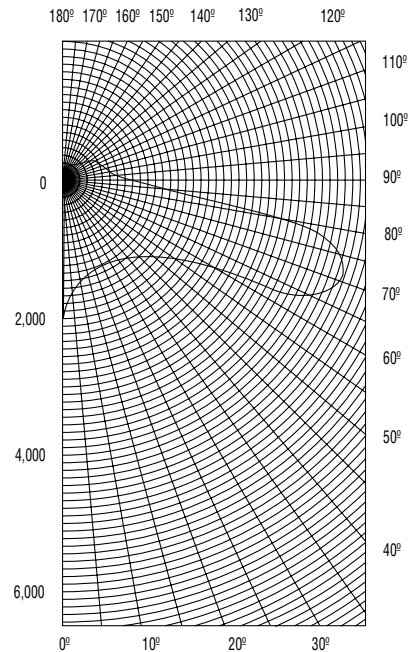
12" GLX



150W HPS GLX Series at 15' mounting height.

12" Prismatic Photometric Data

Curve #: 36-123-01
Lamp: High Pressure Sodium
Wattage: 150W
Lumens: 16,000
Lens: Acrylic
IES Distribution
Type II (narrow)



GLX Series Ordering Information

Housing Size (sq.)	Wattage Lamp	Catalog Number Slide Box	Catalog Number Hook, Cord & Plug
12"	175W MH	GLX0417-(a)(b)	GLX2417-(a)(b)
	e 50W PS/MH	GLX0805-(a)(b)	GLX2805-(a)(b)
	e 70W PS/MH	GLX0807-(a)(b)	GLX2807-(a)(b)
	e 100W PS/MH	GLX0810-(a)(b)	GLX2810-(a)(b)
	e 150W PS/MH	GLX0815-(a)(b)	GLX2815-(a)(b)
	e 175W PS/MH	GLX0817-(a)(b)	GLX2817-(a)(b)
	50W HPS	GLX0505-(a)(b)	GLX2505-(a)(b)
	70W HPS	GLX0507-(a)(b)	GLX2507-(a)(b)
	100W HPS	GLX0510-(a)(b)	GLX2510-(a)(b)
	150W HPS	GLX0515-(a)(b)	GLX2515-(a)(b)

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field-Installed)
<i>For hook, cord & plug, specify voltage:</i> 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* 5 = 480V	Q = Quartz Standby (100-175W only) WT = White Housing	GLX-PM06 = Pendant Mount 6" A HK SC = Hook
5 = 480V (175W only) M = Multi-tap (tapped @ 277V)		

*Contact factory for other lengths

Example

Series	Mounting	Light Source	Wattage	Voltage	Options
GLX	0	8	05	M	WT
GLX = 11" Round Canopy Lighter	0 = Hard wire	8 = PS/MH	05 = 50W	M = Multi-tap	WT = White Housing

Mountings



Slide Box on
Fixture Top

Ordering
Code 0



Hook, Cord
& Plug

Ordering
Code 2

Accessories



Pendant Mount

Ordering Code
GLX-PM06

Wattage Range:
50 - 175W



Lamp Included

While only 12" high, the **GBX Series** Garage Lighter delivers maximum light distribution from its acrylic refractor. Designed for the low profile needs of parking garages, it is the perfect security fixture.

55°C Ambient Rated

Features

Housing

The bronze die-cast aluminum housing has a polyester powder coat finish that resists corrosion as well as the dirt and oil compounds normally found in parking garages.

Ballast

All fixtures are supplied with a high-power factor, high-reactance or CWA ballast.

Lamps

The GBX Series is available in 175W metal halide, 50 - 175W pulse start metal halide and 50W - 150W HPS lamp types. All lamps are supplied in a medium base.

Optics

The prismatic glass lens, in conjunction with the vertical burn lamp, provides maximum light distribution and output. The extra thick prismatic glass lens is tempered.

Mounting Options

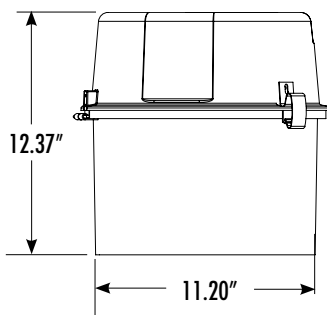
The exclusive adjustable slide box mounts directly to a 3/4" threaded conduit or a standard 4" round box. This allows the GBX series fixture to be safely disconnected from the junction box, making maintenance and/or replacement both quick and easy. The 6" wall mount arm option incorporates a 5" x 5" flange for surface mounting. A 105°C lead wire is provided to connect inside a junction box.



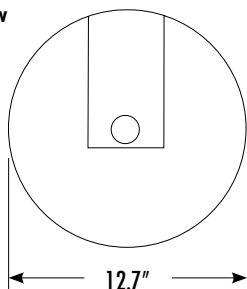
Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Lens Width	Fixture Width	Fixture Height	Approx. Ship Wt.
GBX Series	11.2"	12.7"	12.37"	15 lbs.



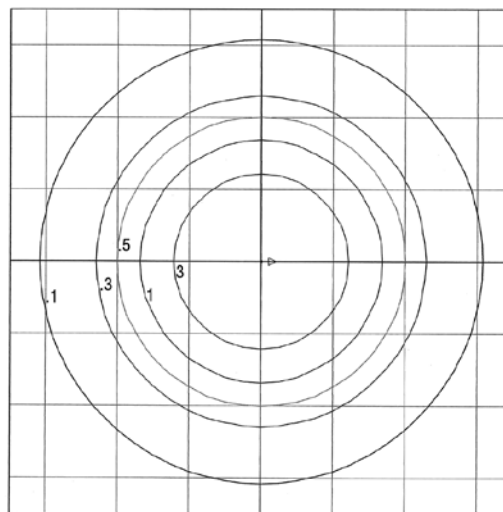
Top View



Photometric Data

(Isofootcandle Plots)

12" GBX



- SL FIXTURES
- GBX0417-M
- CAST ALUMINUM HOUSING, FORMED WHITE ENAMEL
- STEEL REFLECTOR
- CLEAR PRISMATIC C73 GLASS LENS
- ONE CLEAR VENTURE
- MH175/U/MED 175 WATT ED17
- METAL HALIDE RATED AT 14,000 LUMENS

Horizontal footcandles

Scale	1 square = 10 feet
Light Loss Factor	1.00
Total Lumens per Luminaire	14,000
Mounting Height	12 feet
Maximum Calculated Value	13.72 Fc
Arrangement	Single

GBX Series Ordering Information

Housing Size (sq.)	Wattage Lamp	Catalog Number Slide Box	Catalog Number Hook, Cord & Plug	Catalog Number 6" Wall Mount Arm
12"	175W MH	GBX0417-(a)(b)	GBX2417-(a)(b)	GBX4417-(a)(b)
	☒ 50W PS/MH	GBX0805-(a)(b)	GBX2805-(a)(b)	GBX4805-(a)(b)
	☒ 70W PS/MH	GBX0807-(a)(b)	GBX2807-(a)(b)	GBX4807-(a)(b)
	☒ 100W PS/MH	GBX0810-(a)(b)	GBX2810-(a)(b)	GBX4810-(a)(b)
	☒ 150W PS/MH	GBX0815-(a)(b)	GBX2815-(a)(b)	GBX4815-(a)(b)
	☒ 175W PS/MH	GBX0817-(a)(b)	GBX2817-(a)(b)	GBX4817-(a)(b)
	50W HPS	GBX0505-(a)(b)	GBX2505-(a)(b)	GBX4505-(a)(b)
	70W HPS	GBX0507-(a)(b)	GBX2507-(a)(b)	GBX4507-(a)(b)
	100W HPS	GBX0510-(a)(b)	GBX2510-(a)(b)	GBX4510-(a)(b)
	150W HPS	GBX0515-(a)(b)	GBX2515-(a)(b)	GBX4515-(a)(b)

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field-Installed)
<i>For hook, cord & plug, specify voltage:</i> 1 = 120V* 2 = 277V* 3 = 208V* 4 = 240V* *Supplied with Multi-tap ballasts 5 = 480V 175W only M = Multi-tap tapped @ 277V	Q = Quartz Standby (100-175W only) WT = White Housing	GBX-PM = Pendant Mount 6" A HK SC = Hook

Example

GBX	0	5	07	M	WT
Series	Mounting	Light Source	Wattage	Voltage	Options
GB X = 12" Garage Lighter	0 = Hard wire	5 = HPS	07 = 70W	M = Multi-tap	WT = White Housing

Mountings



Slide Box on Fixture Top

Ordering Code 0



Hook, Cord & Plug

Ordering Code 2



6" Wall Mount Arm

Accessories



Pendant Mount

Ordering Code GBX-PM

Wattage Range:
50 - 400W



Lamp Included

Ideally suited for indoor parking areas, canopies or walkways with a mounting height above 15'. Also ideal for building-mounted security lighting.



Dark Sky compliant when mounted in down position



Listed for Wet Locations
Consult Factory for CUL Availability

Features

Housing

The seamless, die cast aluminum housing is standard with a weather-resistant bronze polyester powder topcoat. The doorframe fits flush with the housing. Complete silicon gasketing between door and housing provides a watertight seal. Removable hinged door supports easy maintenance.

Ballast

All fixtures are standard with high-power factor multi-tap or 480V ballasts.

Lamps

The M Series utilizes mogul base lamps. To increase light levels by 20%, specify a position-oriented socket using an MS400/HOR lamp. The CFS utilizes medium base lamps.

Lens

All CF Series fixtures are supplied with C73 prismatic glass for ideal performance and light distribution.

Optics

The CF Series reflector comes standard with hammertone aluminum optics.

Wiring

A knockout is located in the ballast compartment of the CFM housing. Additional knockouts are located on the sidewalls of the CFM housing. The CFS housing has multiple knockouts for mounting to junction boxes.

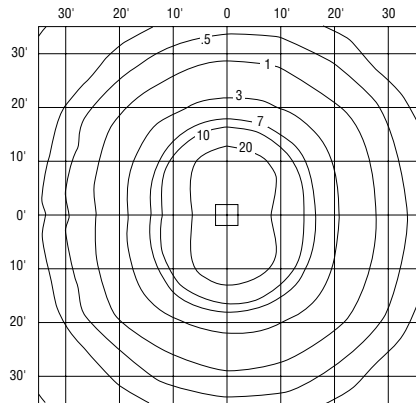
Mounting Options

Three knockouts located in the base of the cast aluminum housing are provided to mount the fixture to steel, concrete ceiling or canopy. Not suitable for mounting to ceilings with combustible material.

Photometric Data

(Isofootcandle Plots)

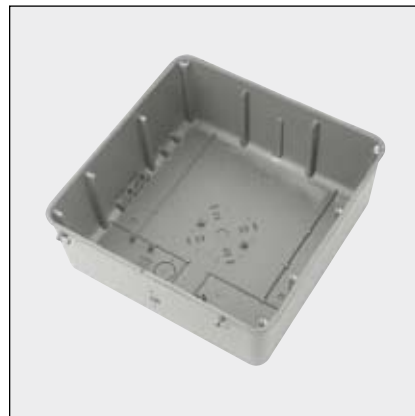
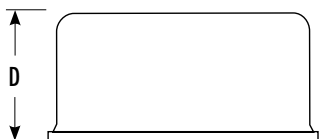
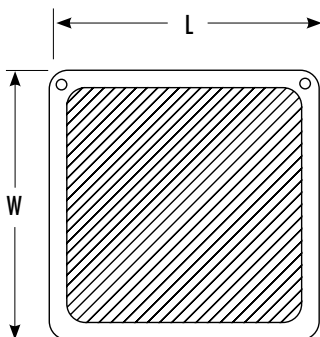
CF



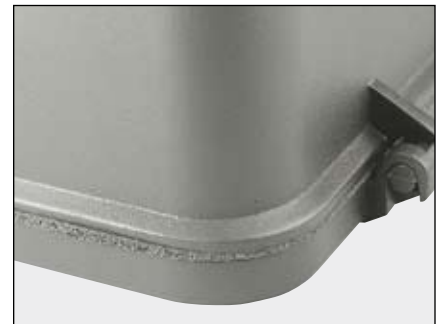
400W MH CF Series at 15' mounting height.

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
CFS Series	12.4"	12.4"	5.25"	18 lbs.
CFM Series	16.4"	16.4"	7.0"	32 lbs.



Special Gasket and Knockout features on the Canopy Fixtures make for easy adaptability and fixture placement.



CF Series Canopy Fixture Ordering Information

Housing Size (sq.)	Wattage Lamp	Catalog Number
12"	Ⓜ 50W PS/MH	CFS0805-(a)(b)
	Ⓜ 70W PS/MH	CFS0807-(a)(b)
	Ⓜ 100W PS/MH	CFS0810-(a)(b)
	Ⓜ 150W PS/MH	CFS0815-(a)(b)
	175W MH	CFS0417-(a)(b)
	50W HPS	CFS0505-(a)(b)
	70W HPS	CFS0507-(a)(b)
	100W HPS	CFS0510-(a)(b)
	150W HPS	CFS0515-(a)(b)
	16"	175W MH
Ⓜ 200W PS/MH		CFM0820-(a)(b)
250W MH		CFM0425-(a)(b)
Ⓜ 250W PS/MH		CFM0825-(a)(b)
Ⓜ 320W PS/MH		CFM0832-(a)(b)
Ⓜ 350W PS/MH		CFM0835-(a)(b)
400W MH		CFM0440-(a)(b)
Ⓜ 400W PS/MH		CFM0840-(a)(b)
400W MS/HOR		CFM0740-(a)(b)
70W HPS		CFM0507-(a)(b)
100W HPS	CFM0510-(a)(b)	
150W HPS	CFM0515-(a)(b)	
250W HPS	CFM0525-(a)(b)	
400W HPS	CFM0540-(a)(b)	

Note: Not suitable for mounting to ceilings with combustible material.

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field-Installed)
5 = 480V M = Multi-tap tapped @ 277V	<u>Fusing</u> (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V Q = Quartz Standby (Includes Q lamp) Non delay-relay type WT = White Housing (Custom Colors Available: Consult factory for pricing and delivery.) Note: HID wattage must be higher than quartz standby wattage.	WG-12 = 12" Wire Guard VS-12 = 12" Vandal Shield WG-16 = 16" Wire Guard VS-16 = 16" Vandal Shield

Mountings



Ceiling Mount

Accessories



Wire Guard

Ordering Code 12":
WG-12

16": WG-16



Vandal Shield

Ordering Code
12": VS-12

16": VS-16

Example

CFS	0	5	07	M	WT
Series	Mounting	Light Source	Wattage	Voltage	Options
CFS = 12" Canopy Fixture	0 = Hard wire	5 = HPS	07 = 70W	M = Multi-tap	WT = White Housing



HID Lighting FLOODLIGHTS

Simkar floodlights and parking/roadway fixtures feature cast aluminum housings for excellent ruggedness and durability - and are designed with radiused corners to achieve reduced EPA ratings. In fact, Simkar's low profile FVL 23" Square Vertical Burn Floodlight reports the lowest EPA rating in the industry.

Be sure to try Simkar's new Ground Post Spike for use with floodlights and landscape lighting fixtures with 1/2" threaded hubs - such as the FMS Micro Floodlight, the FMM Mini Floodlight and the FMR Roundback Floodlight. All Simkar floodlighting systems - including the 12", 16" and 23" fixtures - are available with a wide variety of mounting brackets and accessories, such as slip fitters, yoke mounts, arm mounts, wishbone mounts and custom solutions for pole mounts.

For more information about poles and applicable fixture configurations, please reference the pole section of the catalog. EPA rating information and a wind map are also available in that section.

Wattage Range:
26 to 150 W



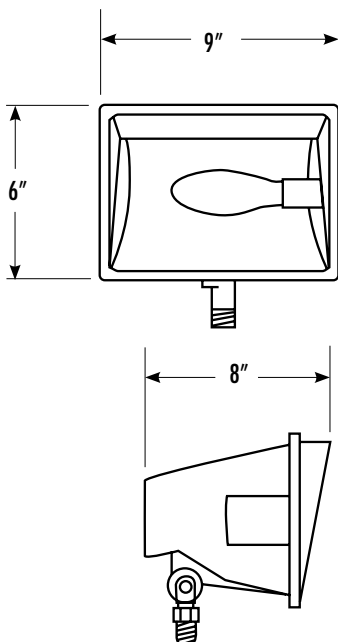
Designed for residential and low wattage industrial and commercial applications, the **FMS Series** is a powerful yet compact die cast aluminum floodlight.



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
FMS Series	6"	9"	8"	6 lbs.



Features

Housing

Finished with a bronze or white polyester powder coat, the architecturally appealing housing is built to retain its attractive appearance for many years.

Optics

Utilizing a unique multi-surface shielded reflector design, a top and side shield hood and a medium base HPS lamp, the FMS Series floodlight is both flexible and energy efficient, providing low fixture visibility and a high light level. NEMA 6 X 6 distribution.

Ballast

The FMS Series comes with a normal power factor (NPF) 120V HPS reactor ballast. CFL fixtures include 120/277V electronic ballasts.

Lamps

Available only in high-pressure sodium, the FMS Series utilizes a medium base lamp in wattages 35W through 150W.

EPA Ratings

Not Required

Mounting Options

The 1/2" adjustable fitter allows the FMS floodlight to be mounted on a standard box and aimed to any vertical degree setting. Designed for wall, ceiling or ground mount. For uplighting, fixture must have a

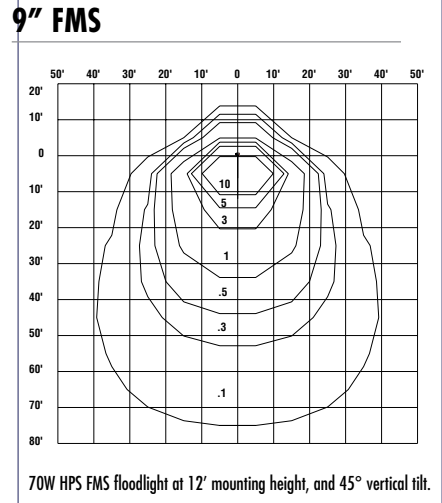
minimum 1° tilt so that contaminants do not create a hot spot and damage the lens.

Maintenance

A top-mounted stainless steel latch provides quick tool-free access to the lamp compartment. The front lens door is pin-hinged on the bottom for easy removal.

Photometric Data

(Isofootcandle Plots)

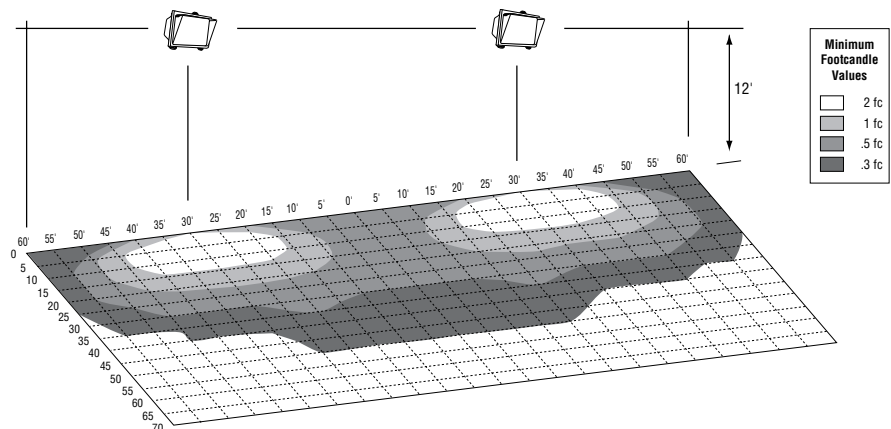


HPS-70 Watt/Clear

Mounting Height: 12'
Number of Fixtures: 2
Aiming Angle: 45°

The FMS Series photometric data is based on a 70 watt clear HPS lamp rated at 6,300 lamp lumens. Footcandle values for other wattages are obtained by multiplying the chart values by the following factors:

Lamp/Wattage	Factor	Lamp/Wattage	Factor
35W HPS	.36	70W HPS	1.00
50W HPS	.64	100W HPS	1.5
		150W HPS	2.5



FMS Ordering Information

Series	Mounting	Light Source	Lamp Wattage	Voltage
FMS = 9" Housing	6 = 1/2" Adj. Fitter	3 = CFL 5 = HPS	<i>HID</i> 03 = 35W 05 = 50W 07 = 70W 10 = 100W 15 = 150W <i>Compact Fluorescent</i> 26 = 26W CFL 32 = 32W CFL 42 = 42W CFL	1 = 120 (HPS Only) D = Dual-Tap 120/277 (CFL Only)

Options	Accessories
WT = White Housing	MA6-FMS = 1/2" Adjustable Fitter (Replacement Mounting) MA6-TA = 1/2" Tenon Adaptor SPIKE = Ground Post

Mountings



1/2" Adjustable Fitter

Ordering Code
MA6-FMS
(included)



1/2" Tenon Adaptor

Ordering Code
MA6-TA

Accessories - Order Separately



Ground Post

Accessory Code
SPIKE

Wattage Range:
26 to 175 W



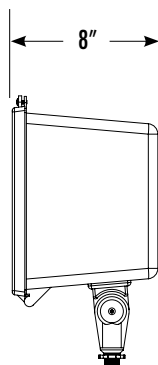
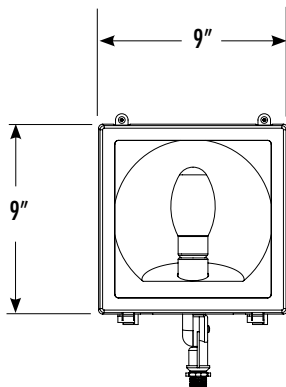
With its compact size and powerful wide beam, the **FMM Series Mini Floodlight** is a versatile and economic light source for building, sign and landscape lighting.



Listed for Wet Locations
Consult Factory for
CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
FMM Series	9"	9"	8"	13 lbs.



Features

Housing

Constructed of rugged corrosion-resistant, die-cast aluminum in an architectural bronze or white polyester powder coat finish, the FMM Series Mini Floodlight blends perfectly with most architectural settings.

Optics

Lower wattage (100W and below) have a NEMA beam pattern of 5H x 4V; 150W and above have a wider 6H x 5V pattern.

Ballast

Metal halide is high reactance only. The 50 - 150W high-pressure sodium versions utilize both multi-tap HPF and 120V NPF. Reactor ballasts are available in 35 - 150W with optional HPF. CFL fixtures include 120/277V electronic ballasts.

Lamps

Available in both metal halide and high-pressure sodium, the FMM Series utilizes a medium base lamp for all wattages.

EPA Ratings

Not required.

Mounting Options

Utilizing a 1/2" adjustable fitter, the FMM floodlight mounts on a standard box and aims to any vertical degree setting. Designed for wall, ceiling or ground mount. For uplighting, fixture must have a minimum

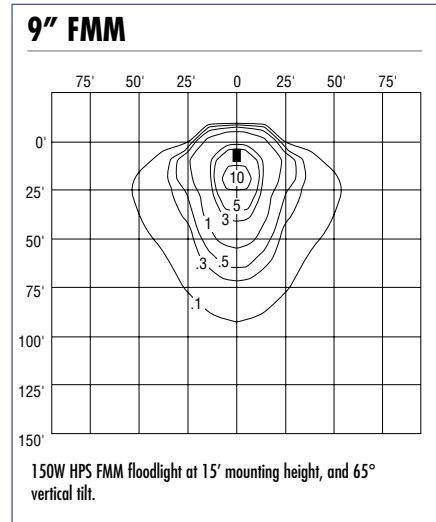
1° tilt so that contaminants do not create a hot spot and damage the lens.

Maintenance

The front lens door is easily opened by two top captive screws and is pin-hinged for easy lamp replacement.

Photometric Data

(Isofootcandle Plots)

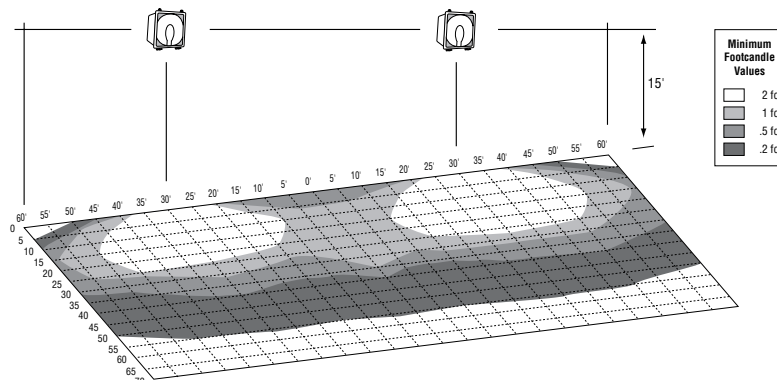


HPS-150 Watt/Clear

Mounting Height: 15' • Number of Fixtures: 2 • Aiming Angle: 65°

The FMM Series photometric data is based on a 150 watt clear HPS lamp rated at 15,800 lamp lumens. Footcandle values for other wattages are obtained by multiplying the chart values by the following factors:

Lamp/Wattage	Factor	Lamp/Wattage	Factor
35W HPS	.14	50W MH	.21
50W HPS	.25	70W MH	.35
70W HPS	.4	100W MH	.57
100W HPS	.6	150W MH	.85
150W HPS	1.0	175W MH	.91



FMM Ordering Information

Series	Light Source	Lamp Wattage
FMM 6 = 9" Housing with 1/2" Adj. Fitter	3 = CFL	<i>HID</i>
	4 = MH	03 = 35W (HPS 120V only)
	5 = HPS	05 = 50W
	8 = MH/PS	07 = 70W
		10 = 100W
		15 = 150W
		17 = 175W (MH only)
		<i>Compact Fluorescent</i>
		26 = 26W
		32 = 32W
	42 = 42W	

Voltage	Options
1 = 120V NPF ¹ (HPS only)	(x)B = Photo Cell - (Internal Button Type Only) (Specify voltage)
2 = 277V	HPF ¹ = High Power Factor (HPF) (120V Only) - (change NPF to HPF)
3 = 208V	WT = White Housing
4 = 240V	
5 = 480V 175W (MH only)	
D = Dual-Tap 120/277 (CFL only)	
M = Multi-tap (tapped @ 277)	

¹All NPF fixtures can be ordered as High Power Factor

Accessories

MA6-FMM = 1/2" Adjustable Fitter (Replacement Mounting)
 MA6-TA = 1/2" Tenon Adaptor
 FMM-GS = Glare Shield
 FMM-VS = Vandal Shield
 SPIKE = Ground Post

Mountings



1/2" Adjustable Fitter

Ordering Code
MA6-FMM
 (included)



1/2" Tenon Adaptor

Ordering Code
MA6-TA

Accessories - Order Separately



Glare Shield

Accessory Code
FMM-GS



Vandal Shield

Accessory Code
FMM-VS



Ground Post

Accessory Code
SPIKE

Wattage Range:
35 to 175 W



Lamp Included

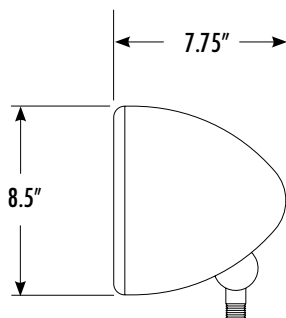
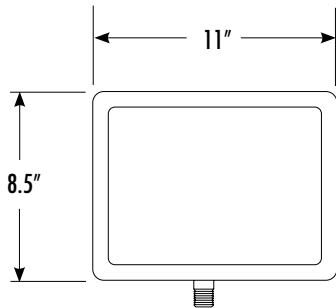
Designer series cast aluminum rounded features with heat-dissipating fins make this floodlight ideal for areas where aesthetics are important. The stylish curves of the **FMR** Series fixture blend perfectly with the environment



Listed for Wet Locations
Consult Factory for
CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
FMR Series	8.5"	11"	7.75"	15 lbs.



Features

Housing

Constructed of die-cast aluminum in an architectural bronze polyester powder coat finish for outdoor applications.

Optics

Specular bright aluminum reflector is designed to provide a wide flood beam pattern.

Ballast

50 - 175W MH, high reactance and CWA Quad or 480V

35 - 150W HPS, NPF, high reactance CWA Quad

Lamps

50 - 175W medium base MH lamps or
35 - 150W HPS medium base lamps

Lens

The front lens is 1/8" tempered glass. The lens is sealed into the lens frame using silicone. Each FMR fixture has silicon gasketing, providing a watertight housing.

EPA Ratings

Not required.

Mounting Options

Comes standard with a heavy-duty 1/2" adjustable fitter mount for both ground and wall mount. For uplighting, fixture must have a minimum 1° tilt so that contaminants do not create a hot spot and damage the lens.

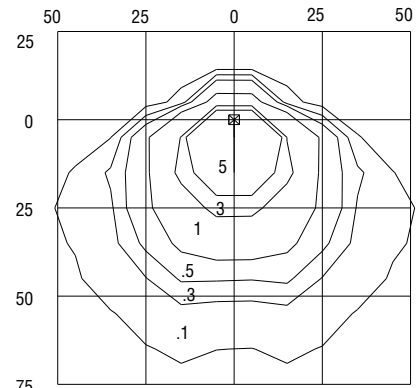
Maintenance

The front lens door is pin-hinged for easy lamp replacement.

Photometric Data

(Isofootcandle Plots)

11"



175W MH FMR roundback flood at 15' mounting height, and 45° tilt.

FMR Ordering Information

Series	Light Source	Lamp Wattage	Voltage (a)
FMR6 = 11" with 1/2" Adj. Fitter	4 = MH	03 = 35W (HPS 120V only)	1 = 120V NPF ¹ (HPS only)
	5 = HPS	05 = 50W	2 = 277V
	8 = MH/PS	07 = 70W	3 = 208V
		10 = 100W	4 = 240V
		15 = 150W	5 = 480V
		17 = 175W (MH only)	M = Multi-tap 120V-227V (tapped @ 277)

¹All NPF fixtures can be ordered as High Power Factor

Options (b) (Factory Installed)	Accessories
HPF ¹ = High Power Factor (120V HPS Only) - (change NPF to HPF)	MA6-FMR = 1/2" Adjustable Fitter (Replacement Mounting)
BK = Black	MA6-TA = 1/2" Tenon Adaptor
WT = White	PT-20 = External Photocell
VG = Verde Green	FMR-GS = Glare Shield
	SPIKE = Ground Post

¹All NPF fixtures can be ordered as High Power Factor

Mountings



1/2" Adjustable Fitter

Ordering Code
MA6-FMR
(included)



1/2" Tenon Adaptor

Ordering Code
MA6-TA

Accessories - Order Separately



Ground Post

Accessory Code
SPIKE

Wattage Range:
70 to 400 W



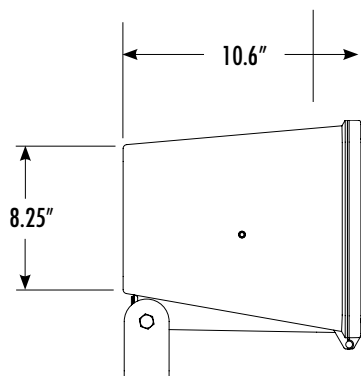
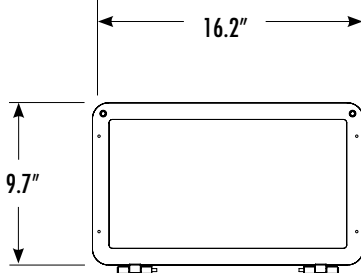
Lamp Included

The **FBD Series Compact Floodlight** punches out up to 400W of light from a well-designed reflector ideally suited for mounting on sides of buildings, on poles, or as a ground mount. Its compact size makes this the most economical and powerful floodlight in its range.

 **Listed for Wet Locations**
Consult Factory for
CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
FBD Series	9.7"	16.2"	10.6"	35 lbs



Features

Housing

Housings are constructed of rugged corrosion-resistant, die-cast aluminum with an architectural bronze polyester powder coat finish.

Optics

The reflector is made from high-quality specular aluminum. NEMA 7 x 7 distribution.

Ballast

All fixtures come standard with a high-power factor, multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

Available in either metal halide (175 - 400W) or high-pressure sodium (70 - 400W), the FBD Series Compact Floodlight utilizes mogul base lamps. (320 - 400W use standard MH T15 lamps.)

Lens

The front lens is hinged and silicone gasketed to seal out contaminants.

EPA Ratings

EPA Ratings are listed on page 252.

Mounting Options

Comes standard with a yoke mount and pre-wired cord. A trunnion mount and a 2-3/8" tenon mount adaptor are available. For uplighting, fixture must have a minimum 1° tilt so that contaminants do not create a hot spot and damage the lens.



Labor-saving wiring compartment

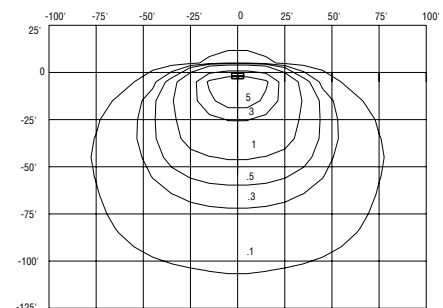
Maintenance

A wiring compartment (see picture) provides easy access to wiring without opening the fixture.

Photometric Data


(Isofootcandle Plots)

16" FBD



400W MH FBD floodlight at 25' mounting height, and 65° vertical tilt.

FBD Ordering Information

Series	Light Source	Lamp Type	Voltage
FBD4 = 16" Housing with yoke mount	4 = MH 5 = HPS 8 = MH/PS 	17 = 175W (MH & PS/MH only) 25 = 250W 32 = 320W (PS/MH only) 35 = 350W (PS/MH only) 40 = 400W	1 = 120V 2 = 277V 3 = 208V 4 = 240V 5 = 480V M = Multi-tap (tapped @ 277V) 120-480V (400W MH only) M5 = 5 Tap 120/277/208/240/480 (400W MH Only)

Options	Accessories (order separately)
(x)P = Photo Control (Specify voltage) (Twist lock receptacle & matching photocell supplied)	FBD-TM = Tenon Mount FBD-TR = Trunnion Mount FBD-GS = Glare Shield FBD-WG = Wire Guide FBD-VS = Vandal Shield (Not Shown)

Mountings and Accessories



Tenon Mount

Ordering Code
FBD-TM



Trunnion Mount

Ordering Code
FBD-TR



Glare Shield

Accessory Code
FBD-GS



Wire Guard

Accessory Code
FBD-WG

Wattage Range:
35 to 1000 W

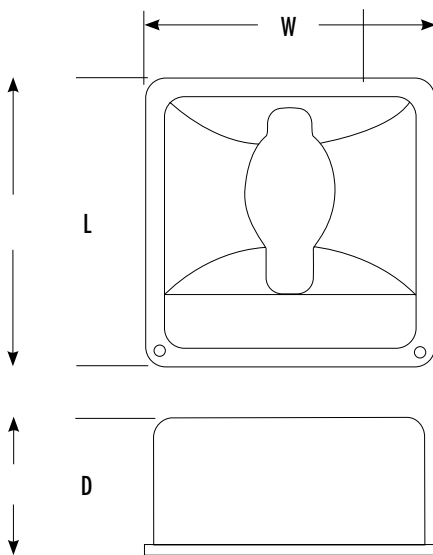


Offering a wide coverage of illumination, the **FB Series Standard Floodlight** is ideal for parking areas, building floodlighting and in various sports lighting applications. Featuring a sleek square design with rounded edges, the FB Series is offered with either a 12", 16" or 23" die cast aluminum housing. A flush door frame is standard with every unit.

 **Listed for Wet Locations**
Consult Factory for
CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FBS Series	12.4"	12.4"	5.25"	25 lbs.
FBM Series	16.4"	16.4"	7.0"	33 lbs.
FBL Series	23.4"	23.4"	10.25"	68 lbs.



Features

Housing

Housings are available in polyester powder coated bronze, black or white. Other colors available upon request. The 16" and 23" housings can be rotated. (See Optics)

Optics

The IES NEMA 6 x 7 FB Series is typically installed with a 45° to 60° vertical tilt to provide a wide coverage of illumination. The 16" and 23" housings have mounting knockouts on three sides that allow the housing to be rotated 90 degrees either right or left.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

12" housing: 35 - 175W medium base lamp

16" housing: 70 - 400W mogul base lamp

23" housing: Uses up to 1000W mogul base lamp

Lens

A clear, tempered glass lens is held securely in a die cast door frame.

EPA Ratings

Because of its unique design, lower EPA levels are obtained, resulting in lower pole costs. EPA Ratings are listed on page 252.

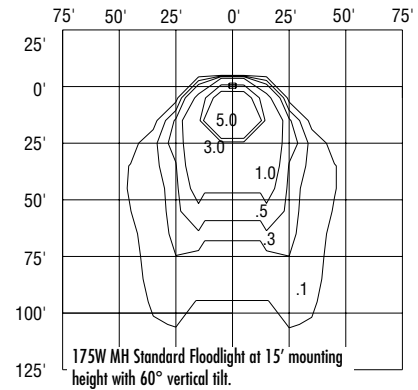
Mounting Options

Refer to page 247 for a complete description of mounting options. For uplighting, fixture must have a minimum 1° tilt so that contaminants do not create a hot spot and damage the lens.

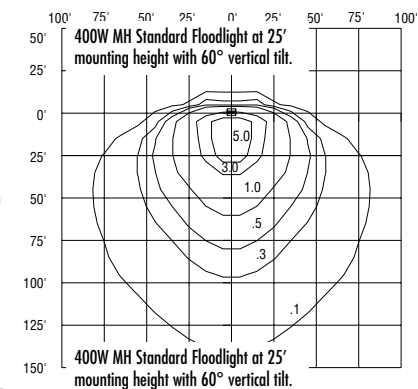
Photometric Data

(Isofootcandle Plots)

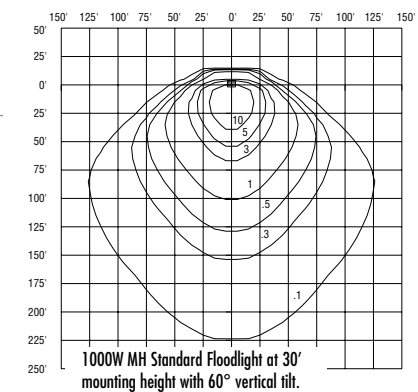
12" FBS



16" FBM

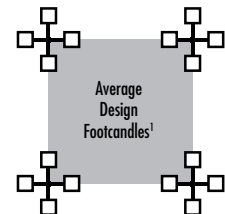


23" FBL



Standard Floodlight Pole Spacing Selection Guide

Lamp Type	Desired Mounting Height	Tilt Angle	Design Footcandles	Catalog Number
Metal Halide				
175W	12'	60	9.5	FBS8417
400W	20'	60	9.3	FBM8440
400W	25'	60	5.9	"
1000W	30'	60	15.7	FBL8499
1000W	35'	60	11.2	"
High-Pressure Sodium				
250W	20'	60	9.3	FBM8525
400W	25'	60	10.7	FBM8540
1000W	30'	60	18.0	FBL8599
1000W	35'	60	13.0	"



Criteria:
Floodlight FB Series
Mounting Height: 25'
Wattage: 400W
Mounting: 2" Adjustable Slip Fitter
Pole Spacing: 4 times mounting height
¹ assuming 4 floodlights/pole

FB 12" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FBS = 12" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	05 = 50W (MH/PS, HPS) 07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Tap

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FB 16" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FBM = 16" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH) 25 = 250W (MH, MH/PS, HPS) 32 = 320W (MH/PS) 35 = 350W (MH/PS) 40 = 400W (MH, MH/PS, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Tap (120-277V) M5 = 5 Tap 120/277/208/240/480 (400W MH Only)

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FB 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FBL = 23" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	40 = 400W (MH, MH/PS, HPS) 75 = 750W (MH/PS) 99 = 1000W (MH, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Tap (120-277V) M5 = 5 Tap 120/277/208/240/480 (400W and 1000W MH Only)

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

Options (Factory Installed)	Accessories (Field Installed)
<p>Fusing</p> <p>(x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V</p> <p>(x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V</p> <p>Q = Quartz Standby</p> <p>(x)P = Photo Control - Specify Voltage (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY</p> <p>WT = White Housing (Custom Colors Available: Consult factory for pricing and delivery.)</p> <p>BK = Black Housing (Custom Colors Available: Consult factory for pricing and delivery.)</p>	<p>12" housing</p> <p>WG-12 = Wire Guard VS-12 = Vandal Shield</p> <p>16" housing</p> <p>WG-16 = Wire Guard VS-16 = Vandal Shield WBR16¹ = Wishbone Mount for 4" Round Pole WBS16¹ = Wishbone Mount for 4" Square Pole</p> <p>23" housing</p> <p>WG-23 = Wire Guard VS-23 = Vandal Shield WBR23¹ = Wishbone Mount for 4" Round Pole WBS23¹ = Wishbone Mount for 4" Square Pole</p> <p>Mounting</p> <p>MA3 = 2" Adjustable Slip Fitter MA4 = Yoke Mt. MA4H = Yoke Mt. for 23"</p> <p>¹ See page 247 for restrictions.</p>

Mountings



2" Adjustable Slip Fitter
Ordering Code **MA3**



Yoke Mount
Ordering Code **MA4**

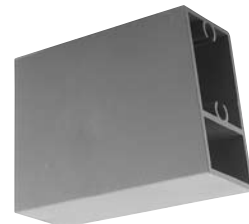


Wishbone Mount
(16" & 23" only)
See 247

10° & 20° Arms - Order Separately



MA2T10
6" Arm - 10° Tilt



MA5T10
12" Arm - 10° Tilt

MA2T20
6" Arm - 20° Tilt

MA5T20
12" Arm - 20° Tilt

Wattage Range:
35 to 1000 W

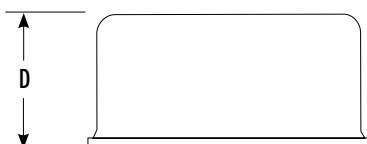
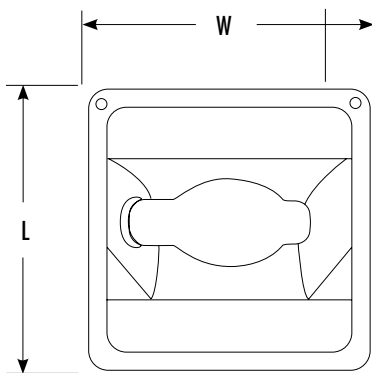


The FC Series provides concentrated, general lighting in larger areas with controlled light spillage. Featuring a sleek square design with rounded edges, these floodlights are offered with either a 12", 16" or 23" die cast aluminum housing.

 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FCS Series	12.4"	12.4"	5.25"	18 lbs.
FCM Series	16.4"	16.4"	7.0"	38 lbs.
FCL Series	23.4"	23.4"	10.25"	68 lbs.



Features

Housing

The die cast aluminum housing with flush doorframe and rounded edges are standard with bronze, black or white polyester powder topcoat. Other colors available upon request. The 16" and 23" housings can be rotated. (See Optics)

Optics

The IES NEMA 7 x 7 cutoff luminaire, while minimizing light spill, is generally positioned with a 15° to 25° vertical tilt to reduce glare and obtain optimum performance. The 16" and 23" housings have mounting knockouts on three sides that allow the housing to be rotated 90 degrees either right or left.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

- 12" housing: 35 - 175W medium base lamp
- 16" housing: 150 - 400W mogul base lamp
- 23" housing: Up to 1000W mogul base lamps

Lens

A clear, tempered glass lens is held securely in a die cast doorframe. Complete silicone gasketing around lens frame and at mounting provide a watertight seal.

EPA Ratings

Because of its unique design, lower EPA levels are obtained, resulting in lower pole costs. EPA Ratings are listed on page 252.

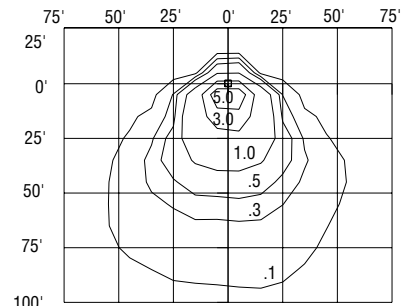
Mounting Options

Refer to page 247 for a complete description of mounting options.

Photometric Data

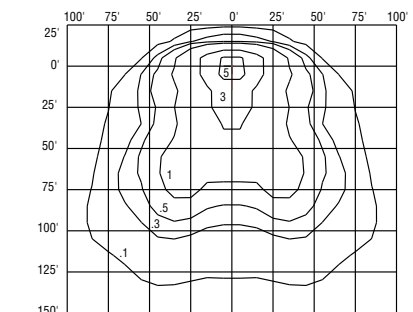
(Isofootcandle Plots)

12" FCS



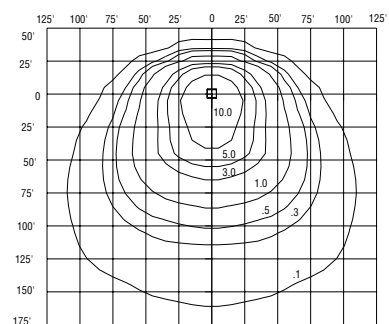
Isofootcandle plot of 175W MH Cutoff Floodlight at 15' mounting height, and 20° vert. tilt.

16" FCM



Isofootcandle plot of 400W MH Cutoff Floodlight at 25' mounting height, and 30° vert. tilt.

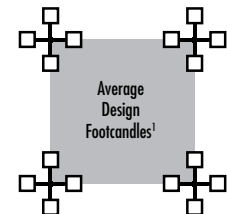
23" FCL



Isofootcandle plot of 1000W MH Cutoff Floodlight at 30' mounting height, and 20° vert. tilt.

Cutoff Floodlight Pole Spacing Selection Guide

Lamp Type	Desired Mounting Height	Tilt Angle	Design Footcandles	Catalog Number
Metal Halide				
175W	15'	20	14.6	FCS8417
400W	20'	25	17.4	FCM8440
400W	25'	20	11.2	"
1000W	30'	25	20.6	FCL8499
1000W	35'	25	14.8	"
High-Pressure Sodium				
250W	20'	20	14.1	FCM8525
400W	25'	25	14.8	FCM8540
400W	30'	20	10.5	"
1000W	30'	20	26.0	FCL8599
1000W	35'	20	18.9	"



Criteria:
Floodlight FC Series
Mounting Height: 25'
Wattage: 400W
Mounting: 2" Adjustable Slip Fitter
Pole Spacing: 4 times mounting height

¹ assuming 4 floodlights/pole

FC 12" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FCS = 12" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	05 = 50W (MH/PS, HPS) 07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FC 16" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FCM = 16" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH) 25 = 250W (MH, MH/PS, HPS) 32 = 320W (MH/PS) 35 = 350W (MH/PS) 40 = 400W (MH, MH/PS, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top (120-277V) M5 = 5 Tap <small>120/277/208/240/480 (400W MH Only)</small>

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FC 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FCL = 23" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	40 = 400W (MH, MH/PS, HPS) 75 = 750W (MH/PS) 99 = 1000W (MH, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top (120-277V) M5 = 5 Tap <small>120/277/208/240/480 (400W and 1000W MH Only)</small>

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

Mountings



2" Adjustable Slip Fitter

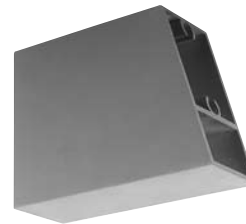
Ordering Code
MA3



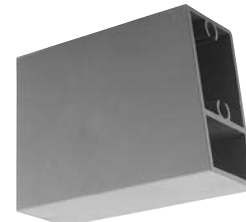
Yoke Mount

Ordering Code
MA4

10° & 20° Arms - Order Separately



MA2T10
6" Arm - 10° Tilt
MA5T10
12" Arm - 10° Tilt



MA2T20
6" Arm - 20° Tilt
MA5T20
12" Arm - 20° Tilt

Options (Factory Installed)	Accessories (Field Installed)
<p>Fusing</p> <p>(x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V</p> <p>(x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V</p> <p>Q = Quartz Standby</p> <p>(x)P = Photo Control - (Specify Voltage) (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY</p> <p>WT = White Housing BK = Black Housing <i>Custom colors available; consult factory for pricing and delivery.</i></p>	<p><u>12" housing</u> WG-12 = Wire Guard VS-12 = Vandal Shield</p> <p><u>16" housing</u> WG-16 = Wire Guard VS-16 = Vandal Shield</p> <p><u>23" housing</u> WG-23 = Wire Guard VS-23 = Vandal Shield</p> <p><u>Mounting</u> MA3 = 2" Adjustable Slip Fitter MA4 = Yoke Mt. MA4H = Yoke Mt. for 23"</p>

Wattage Range:
35 to 1000 W



Featuring a sleek square design with rounded edges, the FF Series is offered with either a 12", 16" or 23" die cast aluminum housing.



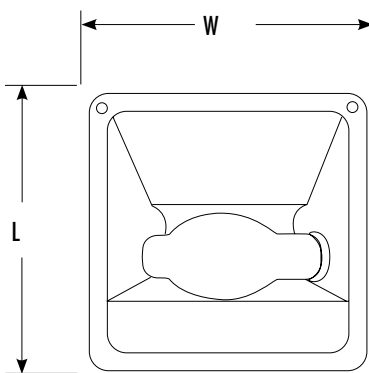
Dark Sky compliant when mounted in down position



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FFS Series	12.4"	12.4"	5.25"	18 lbs.
FFM Series	16.4"	16.4"	7.0"	38 lbs.
FFL Series	23.4"	23.4"	10.25"	68 lbs.



Features

Housing

Die cast aluminum housing with flush doorframe and rounded edges are standard with bronze, black or white polyester powder topcoat. Other colors available upon request. The 16" and 23" housings can be rotated. (See Optics)

Optics

This compact Type IV forward-throw reflector has a main beam of 60°+ from vertical (30° from horizontal), providing a wide lateral distribution and improved uniformities. A supplied backlight shield permits precise cutoff adjustability. The 16" and 23" housings have mounting knockouts on three sides that allow the housing to be rotated 90 degrees either right or left.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

- 12" housing: 35 - 175W medium base lamp
 - 16" housing: 150 - 400W mogul base lamp
 - 23" housing: 400 - 1000W mogul base lamps
- (An ED28 lamp is standard in the 320 - 400W MH 16" fixtures; a BT37 lamp is standard with the 1000W fixtures.)

Lens

A clear, tempered glass lens is held securely in a die cast doorframe. Complete silicon gasketing around the lens frame and at mounting points provide a watertight seal.

EPA Ratings

Because of its unique design, lower EPA levels are obtained, resulting in lower pole costs. EPA Ratings are listed on page 252.

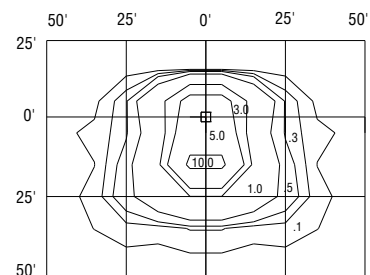
Mounting Options

Refer to page 247 for a complete description of mounting options.

Photometric Data

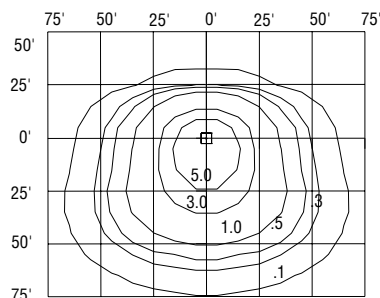
(Isofootcandle Plots)

12" FFS



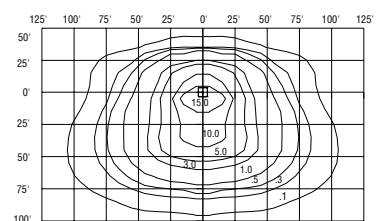
Isofootcandle plot of 175W MH Forward-Throw Floodlight at 15' mount height, 0° vertical tilt.

16" FFM



Isofootcandle plot of 400W MH Forward-Throw Floodlight at 25' mount height, 0° vertical tilt.

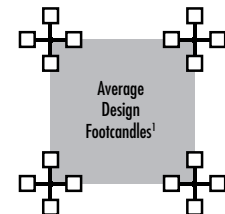
23" FFL



Isofootcandle plot of 1000W MH Forward-Throw Floodlight at 30' mount height, 0° vertical tilt.

Forward Throw Floodlight Pole Spacing Selection Guide

Lamp Type	Desired Mounting Height	Design Footcandles	Catalog Number
Metal Halide			
175W	12'	19.6	FFS8817
400W	20'	13.5	FFM8440
400W	25'	8.3	"
1000W	30'	20.0	FFL8499
1000W	35'	14.5	"
High-Pressure Sodium			
250W	20'	12.2	FFM8525
400W	25'	13.7	FFM8540
400W	30'	9.1	"
1000W	30'	27.4	FFL8599
1000W	35'	19.8	"



Criteria:

Floodlight FF Series, 0° vertical tilt
Mounting Height: 25'
Wattage: 400W
Mounting: 12" Extended Pole Mount
Pole Spacing: 4 times mounting height

¹ assuming 4 floodlights/pole

FF 12" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FFS = 12" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	05 = 50W (MH/PS, HPS) 07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FF 16" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FFM = 16" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH) 25 = 250W (MH, MH/PS, HPS) 32 = 320W (MH/PS) 35 = 350W (MH/PS) 40 = 400W (MH, MH/PS, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top (120-277V) M5 = 5 Tap <small>120/277/208/240/480 (400W MH Only)</small>

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FF 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FFL = 23" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	40 = 400W (MH, MH/PS, HPS) 75 = 750W (MH/PS) 99 = 1000W (MH, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top (120-277V) M5 = 5 Tap <small>120/277/208/240/480 (400W and 1000W MH Only)</small>

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

Options (Factory Installed)	Accessories (Field Installed)
<p>(x)P = Photo Control - Specify voltage (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY</p> <p>WT = White Housing BK = Black Housing</p> <p><u>Quartz Standby (includes Quartz Lamp)</u> Q = Quartz Standby</p> <p>Fusing</p> <p>(x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V</p> <p>(x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V</p> <p><i>Custom Colors Available: Consult factory for pricing and delivery.</i></p>	<p><u>12" housing</u> WG-12 = Wire Guard VS-12 = Vandal Shield</p> <p><u>16" housing</u> WG-16 = Wire Guard VS-16 = Vandal Shield</p> <p><u>23" housing</u> WG-23 = Wire Guard VS-23 = Vandal Shield</p> <p><u>Mounting</u> MA1 = 1-1/2" Close Pole Mt. MA2 = 6" Extended Pole Mt. MA3 = 2" Adjustable Slip Fitter MA4 = Yoke Mount MA4H = Yoke mount for 23" MA5 = 12" Extended Pole Mt.</p>

Mountings



1-1/2" Close Pole Mount

Ordering Code
MA1



6" Extended Pole Mount

Ordering Code
MA2



2" Adjustable Slip Fitter

Ordering Code
MA3



Yoke Mount

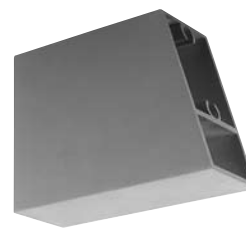
Ordering Code
MA4



12" Extended Pole Mount

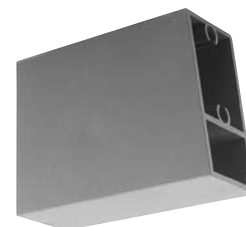
Ordering Code
MA5

10° & 20° Arms - Order Separately



MA2T10
6" Arm - 10° Tilt

MA5T10
12" Arm - 10° Tilt



MA2T20
6" Arm - 20° Tilt

MA5T20
12" Arm - 20° Tilt

Wattage Range:
35 to 1000 W

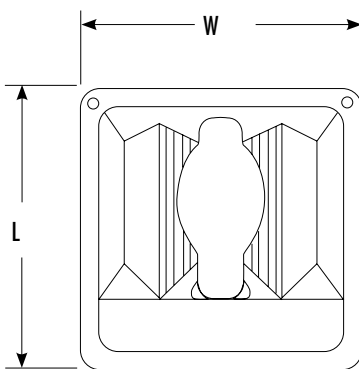


The FP Series is ideally suited for roadway applications, parking areas or for building-mounted security lighting. Units feature a sleek square design with rounded edges in either a 12", 16" or 23" die cast aluminum housing.

 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FPS Series	12.4"	12.4"	5.25"	18 lbs.
FPM Series	16.4"	16.4"	7.0"	33 lbs.
FPL Series	23.4"	23.4"	10.25"	68 lbs.



Features

Housing

Die cast aluminum housing with flush doorframe and rounded edges are standard with bronze, black or white polyester powder topcoat. Other colors available upon request. The 16" and 23" housings can be rotated. (See Optics)

Optics

The 16" and 23" housings come standard with Type III asymmetric distribution. Ideally suited for roadway applications, parking areas or building mounted security lighting. The 16" and 23" housings have mounting knockouts on three sides that allow the housing to be rotated 90 degrees either right or left.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no Voltage is specified, cord is connected to highest Voltage.

Lamps

- 12" housing: 35 - 175W medium base lamp
- 16" housing: 70 - 400W mogul base lamp
- 23" housing: 750 - 1000W mogul base lamps

Lens

A clear, tempered glass lens is held securely in a die cast doorframe. Complete silicon gasketing around the lens frame and at mounting points provide a watertight seal.

EPA Ratings

Because of its unique design, lower EPA levels are obtained, resulting in lower pole costs. EPA Ratings are listed on page 252.

Mounting Options

Refer to page 247 for a complete description of mounting options.

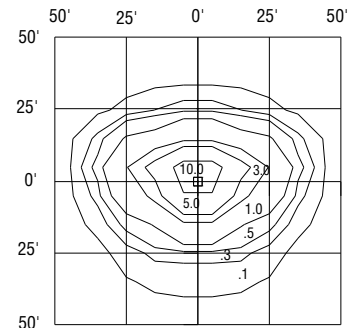
Parking/Roadway Floodlight Pole Spacing Selection Guide

Lamp Type	Desired Mounting Height	Design Footcandles	Catalog Number
Metal Halide			
175W	12'	25.0	FPS8417
400W	20'	16.8	FPM8440
400W	25'	10.5	"
1000W	30'	19.8	FPL8499
1000W	35'	14.3	"
High-Pressure Sodium			
250W	20'	13.3	FPM8525
400W	25'	15.0	FPM8540
400W	30'	10.2	"
1000W	30'	26.9	FPL8599
1000W	35'	19.5	"

Photometric Data

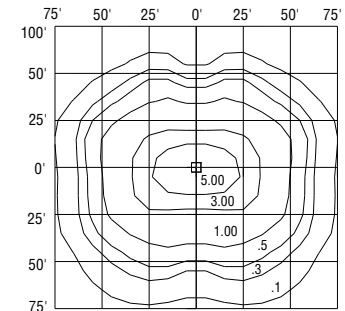
(Isofootcandle Plots)

12" FPS



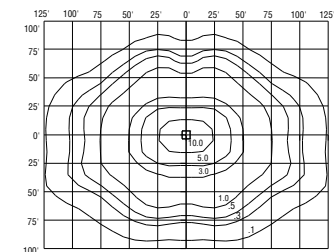
Isofootcandle plot of 175W MH Parking/Roadway Floodlight at 15' mounting height, and 0° vertical tilt.

16" FPM

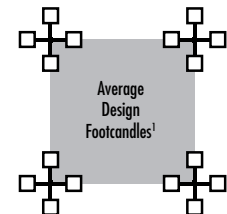


Isofootcandle plot of 400W MH Parking/Roadway Floodlight at 25' mounting height, and 0° vertical tilt.

23" FPL



Isofootcandle plot of 1000W MH Forward-Throw Luminaire at 30' mount height, 0° vertical tilt.



Criteria:
Floodlight FP Series, 0° vertical tilt
Mounting Height: 30'
Wattage: 400W
Mounting: 12" Extended Pole Mount
Pole Spacing: 4 times mounting height

¹ assuming 4 floodlights/pole

FP 12" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FPS = 12" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	05 = 50W (MH/PS, HPS) 07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FP 16" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FPM = 16" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH) 25 = 250W (MH, MH/PS, HPS) 32 = 320W (MH/PS) 35 = 350W (MH/PS) 40 = 400W (MH, MH/PS, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top (120-277V) M5 = 5 Tap 120/277/208/240/480 (400W MH Only)

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

FP 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FPL = 23" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	40 = 400W (MH, MH/PS, HPS) 75 = 750W (MH/PS) 99 = 1000W (MH, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top (120-277V) M5 = M5 = 5 Tap 120/277/208/240/480 (400W and 1000W MH Only)

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

Mountings



1-1/2" Close Pole Mount

Ordering Code
MA1



6" Extended Pole Mount

Ordering Code
MA2



12" Extended Pole Mount

Ordering Code
MA5



Wishbone Mount

See Accessories for Code

Options (Factory Installed)	Accessories (Field Installed)
<p>(x)P = Photo Control - Specify voltage (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY</p> <p>WT = White Housing BK = Black Housing</p> <p><u>Fusing</u> (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V</p> <p><u>Quartz Standby (includes Quartz Lamp)</u> Q = Quartz Standby</p> <p><i>Custom Colors Available: Consult factory for pricing and delivery.</i></p>	<p><u>12" housing</u> WG-12 = Wire Guard VS-12 = Vandal Shield</p> <p><u>16" housing</u> WG-16 = Wire Guard VS-16 = Vandal Shield WBR16¹ = Wishbone Mount for 4" Round Pole WBS16¹ = Wishbone Mount for 4" Square Pole</p> <p><u>23" housing</u> WG-23 = Wire Guard VS-23 = Vandal Shield WBR23¹ = Wishbone Mount for 4" Round Pole WBS23¹ = Wishbone Mount for 4" Square Pole</p> <p><u>Mounting</u> MA1 = 1-1/2" Close Pole Mt. MA2 = 6" Extended Pole Mt. MA5 = 12" Extended Pole Mt.</p> <p>¹ See page 247 for restrictions.</p>

Wattage Range:
400 to 1000 W

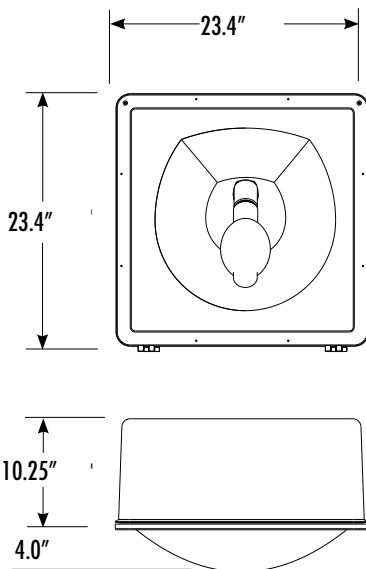


The low profile, compact cast aluminum housing, with rounded edges, has a low EPA. Utilizing specially-designed segmented, ultra-bright anodized aluminum, the vertical burn reduced jacket lamps provide a forward throw type 2/3 beam pattern that is ideal for automotive dealerships and perimeter parking areas.

 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FAL Series	23.4"	23.4"	10.25"	80 lbs.



Features

Housing

The housing is polyester powder coated in bronze, black or white as standard. Other colors available upon request. The hinged doorframe closes flush with the housing using two stainless steel screws.

Optics

Multifaceted, segmented ultra bright anodized aluminum provides a forward throw beam pattern with a 76% efficiency. The reflector can rotate with the housing to provide directable lighting. NEMA Type II/III distribution.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

The compact size housing allows for use of either metal halide or high-pressure sodium mogul base lamps ranging in wattage from 400 to 1000W. (Reduced jacket 1000W lamps are required.)

Lens

A 3/16" thick tempered sag glass is sealed with a silicon rubber gasket to the cast aluminum door frame.

EPA Ratings

EPA Ratings are listed on page 252.

Mounting Options

Refer to page 247 for a complete description of mounting options.

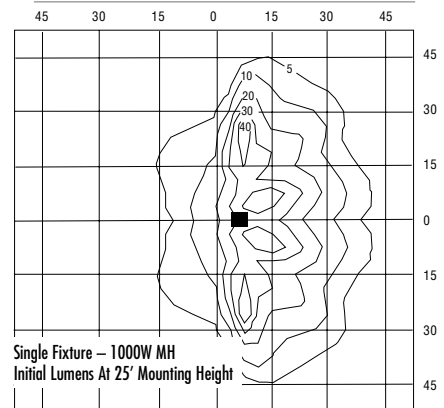
Maintenance

The drop down hinged door provides easy access to the lamp and ballast chambers. Neoprene gasketing on the door frame seals out contaminants.

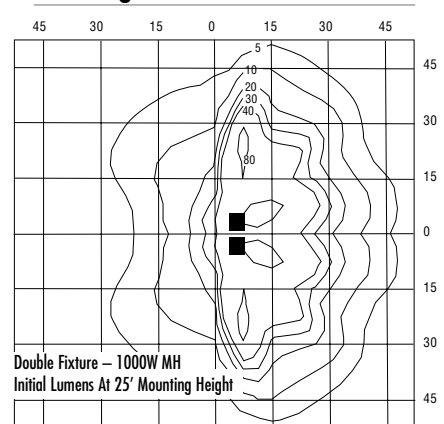
Photometric Data

(Isofootcandle Plots)

FAL Single Fixture



FAL Single Fixture



FAL 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FAL	8 = Without Mounting	4 = MH 5 = HPS	40 = 400W (MH, HPS) 99 = 1000W (MH, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Tap (120-277V) M5 = 5 Tap 120/277/208/240/480 <i>(400W and 1000W MH Only)</i>

Options (Factory Installed)	Accessories (Field Installed)
<p>(x)P = Photo Control - Specify voltage (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY</p> <p>WT = White Housing BK = Black Housing</p> <p><u>Quartz Standby (includes Quartz Lamp)</u> Q = Quartz Standby</p> <p><i>Custom Colors Available: Consult factory for pricing and delivery.</i></p>	<p>GSH-23 = Glare shield WBR23¹ = Wishbone Mount for 4" Round Pole WBS23¹ = Wishbone Mount for 4" Square Pole</p> <p><u>Mounting</u> MA2 = 6" Extended Pole Mt. MA5 = 12" Extended Pole Mt.</p> <p>¹ See page 247 for restrictions.</p>

Mountings



6" Extended Pole Mount

Ordering Code
MA2



12" Extended Pole Mount

Ordering Code
MA5



Wishbone Mount

See
Accessories

Accessories



Glare Shield

Accessory
Code
GSH-23

Wattage Range:
320 to 1000 W

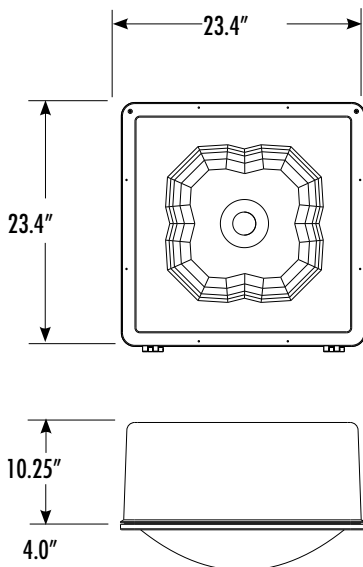


The low profile and compact cast aluminum housing, with rounded edges, has a low EPA rating. Utilizing specially-designed segmented, ultra-bright anodized aluminum, the vertical burn reduced jacket lamps provide a symmetrical Type V square pattern.

 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FAL Series	23.4"	23.4"	10.25"	80 lbs.



Features

Housing

The housing is polyester powder coated in bronze, black or white as standard. Other colors available upon request.

Optics

Multifaceted, ultra-bright anodized segmented aluminum provides a Type V distribution pattern using a vertical burn lamp.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

The compact housing allows for use of either metal halide or high-pressure sodium mogul base lamps ranging in wattage from 320 to 1000W. Standard sized lamps are utilized through 400W. (Reduced jacket 750W & 1000W lamps are required.)

Lens

The fixture has a drop down hinged door containing a 4" sag glass lens.

EPA Ratings

Units offer the lowest EPA in the industry. EPA Ratings are listed on page 252.

Mounting Options

Refer to page 247 for a complete description of mounting options.

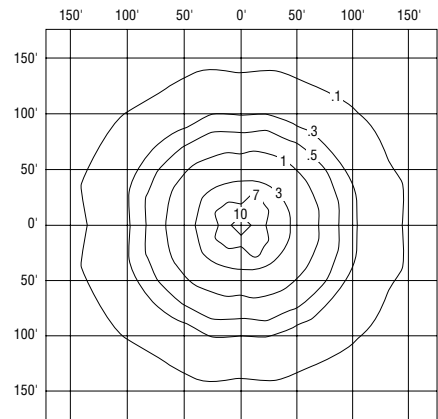
Maintenance

The drop down hinged door provides easy access to the lamp and ballast chambers. The hinged doorframe closes flush with the housing using two stainless steel screws. Neoprene gasketing on the doorframe seals out contaminants.

Photometric Data

(Isofootcandle Plots)

FVL



1000W MH Vertical Burn Floodlight at 30° mount height, 0° vertical tilt.

FVL 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FVL = 23" Housing	8 = Without Mounting	4 = MH	32 = 320W (MH/PS)	1 = 120
		5 = HPS	35 = 350W (MH/PS)	2 = 277
		8 = MH/PS*	40 = 400W (MH, MH/PS, HPS)	3 = 208
			75 = 750W (MH/PS)	4 = 240
			99 = 1000W (MH, MH/PS, HPS)	5 = 480
				M = Multi-Top (120-277V)
				M5 = 5 Tap 120/277/208/240/480 (400W and 1000W MH Only)

* MH/PS lamps must be operated in a ±15° vertical or horizontal burning position

Options (Factory Installed)	Accessories (Field Installed)
(x)P = Photo Control - Specify voltage (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY	GSH-23 = Glare Shield
WT = White Housing	WBR23 ¹ = Wishbone Mount for 4" Round Pole
BK = Black Housing	WBS23 ¹ = Wishbone Mount for 4" Square Pole
Custom Colors Available: Consult factory for pricing and delivery.	<u>Mounting</u> MA2 = 6" Extended Pole Mt. MA5 = 12" Extended Pole Mt.
	¹ See page 247 for restrictions.

Mountings



6" Extended Pole Mount

Ordering Code
MA2



12" Extended Pole Mount

Ordering Code
MA5



Wishbone Mount

See
Accessories

Accessories



Glare Shield

Accessory Code
GSH-23

Wattage Range:
750 to 1500W



Lamp Included

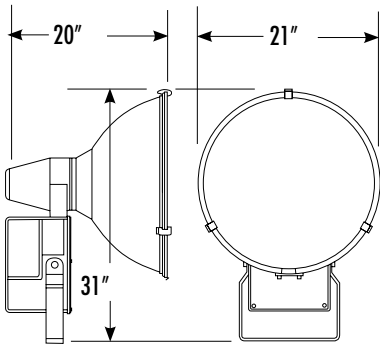
Constructed to withstand elements of the weather and wind, the **SLF Series** is ideal for illuminating buildings, signs and sports fields.



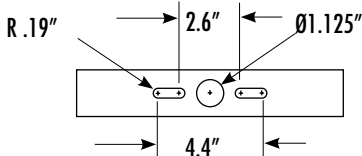
Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
SLF Series	31"	21"	20"	70 lbs.



Hole Pattern for Yoke/Trunnion



Features

Housing

Die cast aluminum housings come standard in a light gray polyester powder coat.

Optics

The anodized faceted aluminum reflector is available in a NEMA Type 3, 4, 5 or 6 reflector. The reflector is field installed using a twist-on feature to a thermally separated socket housing with 3-position 5KV mogul socket.

Ballast

Fixtures come standard with a super CWA multi-voltage ballast. The ballast is heat sunk, using a uniquely designed "hold down" wedge, to provide thermal separation between the socket and lamp. All units are supplied with a 6' SOW 16/3 cord and watertight strain relief bushing. The 1500W fixture, when tapped at 120V, requires a SOW 14/3 cord, supplied by others.

Lamps

The SLF Series utilizes three-position 5KV mogul socket for 1000 - 1500W lamp.

Lens

The clear tempered-glass lens is silicone gasketed and secured to the reflector with four stainless steel latches for tool-free access.

EPA Ratings

EPA: 2.7 sq. ft.

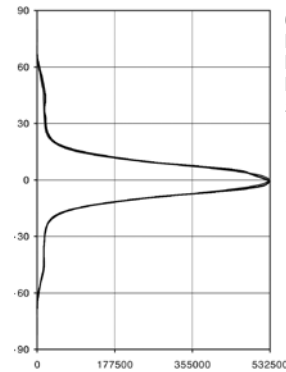
Mounting Options

Heavy-duty trunnion mounts to cross arms, poles and walls. For tenon mounting, order SLF-TM. CA1 accessory is available for cross arm mounting. The fixture includes a hardware kit containing galvanized bolts and nuts for attaching to most cross arms or poles.

Photometric Data

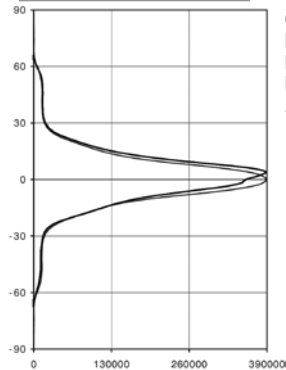
(Isofootcandle Plots)

SLF 7495-M3



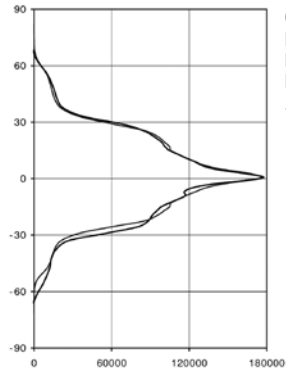
Catalog Number: SLF7495-M3
Lamp: 1500W BT56 MH
Lumens: 155,000
NEMA Type: 3H x 3V
50% Max Candela: 18.6°H x 18.7°V
10% Max Candela: 36.3°H x 36.4°V

SLF 7495-M4



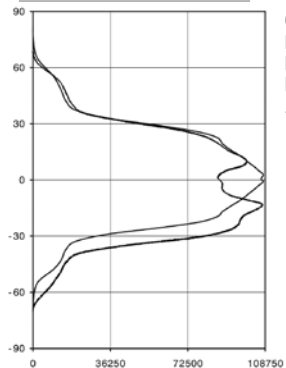
Catalog Number: SLF7495-M4
Lamp: 1500W BT56 MH
Lumens: 155,000
NEMA Type: 4H x 4V
50% Max Candela: 20.6°H x 21.0°V
10% Max Candela: 47.4°H x 47.5°V

SLF 7495-M5



Catalog Number: SLF7495-M5
Lamp: 1500W BT56 MH
Lumens: 155,000
NEMA Type: 5H x 5V
50% Max Candela: 49.0°H x 46.5°V
10% Max Candela: 81.3°H x 80.7°V

SLF 7495-M6



Catalog Number: SLF7495-M6
Lamp: 1500W BT56 MH
Lumens: 155,000
NEMA Type: 6H x 6V
50% Max Candela: 59.8°H x 63.1°V
10% Max Candela: 105.9°H x 108.4°V

SLF 21" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
SLF	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	75 = 750W (MH/PS) 99 = 1000W (MH, HPS) 95 = 1500W (MH)	5 = 480V M = Multi-tap (tapped @ 277) M5 = 120-480V (1000 W MH only)

* MH/PS lamps must be operated in a $\pm 15^\circ$ vertical or horizontal burning position

Options (Factory Installed)	Accessories
<p>NEMA Type</p> <p>3 = 3 X 3 4 = 4 X 4 5 = 5 X 5 6 = 6 X 6</p> <p>Fusing</p> <p>(x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V</p>	<p>SLF-GS = Glare Shield SLF-TM = Tenon Mount CA1 = Cross Arm Mount S2-T2-WPG = Two-Light Cross Arm Mount (for wood poles only) S3-T3-WPGM = Three-Light Cross Arm Mount (for wood poles only) S4-T4-WPG = Four-Light Cross Arm Mount (for wood poles only)</p> <p><i>Other crossarm brackets available for steel poles. Please contact factory.</i></p>

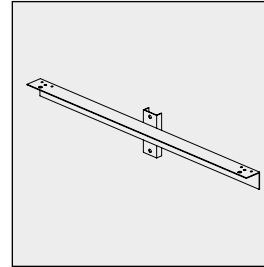
Mountings & Accessories



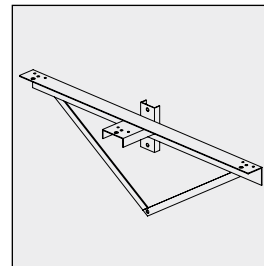
Tenon Mount
Use with trunion or yoke mount when mounting on 2-3/8" tenon mount.
Ordering Code SLF-TM



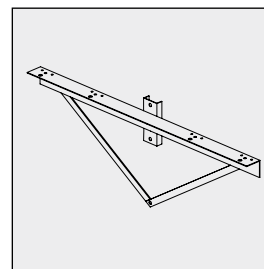
Cross Arm Mount
Use with trunion or yoke mount to mount to wood or steel crossarms.
Ordering Code CA1



Two-Light Cross Arm Mount
Ordering Code S2-T2-WPG



Three-Light Cross Arm Mount
Ordering Code S3-T3-WPGM



Four-Light Cross Arm Mount
Ordering Code S4-T4-WPG



Housing:

Durable die-cast aluminum in natural finish.

Electrical:

HPS model comes standard with a 120 NPF reactor ballast. Metal Halide model is supplied with a high reactance 120V NPF ballast. CFL model supplied with 120V electronic ballast.

The HPS and Metal Halide units are supplied with medium-base lamps. CFL utilizes 4U mogul-base lamp.

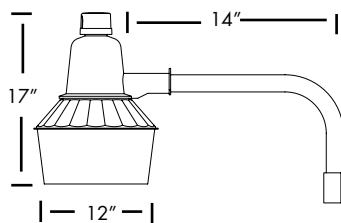
Mounting:

Mounting hardware included; HPS and Metal Halide models include 24" steel mounting arm. Wall or pole mount.

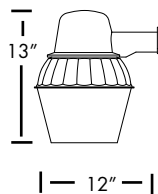


- Heavy duty twist lock photocontrol for automatic dusk to dawn operation. DTDCFL65 has button photocell.
- Durable die-cast aluminum housing in natural finish.
- Faceted aluminum reflector for maximum light reflectance.
- Wide 12" linear prismatic acrylic refractor for even light distribution.
- Porcelain 4KV pulse rated mogul socket.
- Sturdy 24" curved steel mounting arm (1-5/8" dia).
- Foam packaging protects fixture during shipping and handling.
- Wall or pole mount, mounting hardware included.
- Lamp included.

Dimensions



HID



CFL

Ordering code	Description
DTDCFL65	65W 120V CFL 10" Yard Lite w/PC
HPS 70	70W 120V HPS 12" Yard Lite w/PC & 24" Arm
DTDPS100	100W 12V PSMH 12" Yard Lite w/PC & 24" Arm



MA1



WBR16, WBR23, WBS16,
WBS23



MA2



MA2R, MA5R



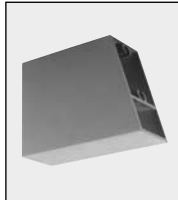
MA3



MA2T10, MA5T10



MA4



MA2T20, MA5T20



MA5



MA6

Ordering Code MA1

Close Pole Mount (1 1/2")

For 12", 16" & 23" Housings

Extruded aluminum mounting arm attaches fixture to the side of a square pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 1.5" L X 4.0" H.

Approximate shipping weight: 2 lbs.

Ordering Code MA2

Extended Pole Mount (6")

For 12", 16" & 23" Housings

Extruded aluminum mounting arm attaches fixture in a fixed horizontal position to the side of a square pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 6" L X 4" H.

Approximate shipping weight: 2 lbs.

Ordering Code MA3

2" Adjustable Slip Fitter

Slip-fits over a 2" pole or tenon (2.375" O.D.). Allows vertical tilt in 2.5° increments, as well as lateral rotation. Threaded knockout provided for field-installed button photocell.

Approximate shipping weight: 2 lbs.

Ordering Code MA4

Yoke Mount

Ideal for wall, ground, roof or wood pole mounting; bolts directly to almost any surface. Mounts to fixture housing from outside using 5/16" X 1" bolts. Allows vertical tilt to any angle, and double locks at 0°, 20°, 30°, 60°, 70° or 90° tilt angle. Use RSY4 pole bracket, page 266, for tenon mounting.

Approximate shipping weight: 3 lbs.

Ordering Code MA5

Extended Pole Mount (12")

Extruded aluminum mounting arm attaches the fixture in a fixed horizontal position to the side of a square pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm is 12" L X 4" H.

Approximate shipping weight: 4 lbs.

Ordering Code MA6

1/2" Adjustable Fitter

Standard on all FMS, FMM & FMR compact floodlights, the NPSM threaded nipple end mounts directly to the junction box. (Only available with FMS, FMM & FMR fixtures.)

Shipping weight is included in fixture weight.

Ordering Code WBR16, WBR23, WBS16, WBS23

Wishbone Mounting

SOW16/3 cord supplied. Horizontal mounted fixtures centered directly over the pole top utilize the wishbone. 16" & 23" housing.

WBR16 - requires 2 3/8" tenon

WBR23 - requires 2 3/8" tenon

WBS16 - The square base with internal tenon mount is designed to slip into either a standard 4" square, non-tapered steel or aluminum pole or a square pole with 2 3/8" tenon.

Approximate shipping weight is 22 lbs.

WBS23 - The square base with internal tenon mount is designed to slip into either a standard 4" square, non-tapered steel or aluminum pole or a square pole with 2 3/8" tenon.

Approximate shipping weight is 23lbs.

Mounting Code MA2R

Radius Extended Pole Mount (6")

Extruded aluminum mounting arm attaches fixture in a fixed horizontal position to a 4" round pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 6" L X 4" H. Not recommended for use on round tapered poles.

Approximate shipping weight: 2 lbs.

Mounting Code MA5R

Radius Extended Pole Mount (12")

Extruded aluminum mounting arm attaches fixture in a fixed horizontal position to a 4" round pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 12" L X 4" H. Not recommended for use on round tapered poles.

Approximate shipping weight: 4 lbs.

Mounting Code MA2T10

10° Arm Mount

Extruded aluminum mounting arm attaches fixture in a 10° above horizontal position to a square pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 6" L X 4" H.

Approximate shipping weight: 2 lbs.

Mounting Code MA5T10

10° Arm Mount

Extruded aluminum mounting arm attaches fixture in a 10° above horizontal position to a square pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 12" L X 4" H.

Approximate shipping weight: 5 lbs.

Mounting Code MA2T20

20° Arm Mount

Extruded aluminum mounting arm attaches fixture in a 20° above horizontal position to a square pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 6" L X 4" H.

Approximate shipping weight: 2 lbs.

Mounting Code MA5T20

20° Arm Mount

Extruded aluminum mounting arm attaches fixture in a 20° above horizontal position to a square pole. The 5/16" tie rods thread into the housing from the outside and mount to the pole using washers and hex nuts. The arm measures 12" L X 4" H.

Approximate shipping weight: 5 lbs.

Accessory Code BAF-16, BAF-23

Deep Baffle

Steel baffle allows precise control of light direction while maintaining full side cutoff. Attaches to lens frame with number 8 supplied fasteners. Available for 16" & 23" housing sizes. Finished with a bronze powder coat paint. Order separately.

Approximate shipping weights: BAF-16: 3 lbs., BAF-23: 5 lbs.

Accessory Code WG-12, WG-16, WG-23

Wire Guard

Steel guard protects the optical system of the 12", 16" or 23" housing. Attaches easily to lens frame with number 8 supplied fasteners. Finished with black powder coat paint. Order separately.

Approximate shipping weights: WG-12: 1 lb., WG-16: 1 lb., WG-23: 2 lbs.

Accessory Code GSH-12, GSH-16, GSH-23

Glare Shield

Steel shield deters second story brightness and holds forward brightness to a minimum for eye-level fixture. Attaches easily to lens frame with number 8 supplied fasteners. Available for 12", 16" & 23" housing sizes. Finished with a bronze powder coat paint. Use with FP Series to eliminate backlight trespass. (Glare shield is not recommended for the FC Series Cutoff Floodlight. Consult factory if use of Glare Shield with Polycarbonate Vandal Shield is intended). Order separately.

Approximate shipping weights: GSH-12: 1 lb., GSH-16: 1 lb., GSH-23: 2 lbs.

Accessory Code VS-12, VS-16, VS-23

Polycarbonate Vandal Shield

Clear polycarbonate shield 0.19" thick provides protection to optical system of any size floodlight or commercial fixture. Attaches easily to lens frame with number 8 supplied fasteners. Consult factory if use of Polycarbonate Vandal Shield with Glare Shield is intended. Order separately.

Approximate shipping weights: VS-12: 2 lbs., VS-16: 2 lbs., VS-23: 3 lbs.

Accessory Code BLS-16, BLS-23

Backlight Shield

This prefinished anodized aluminum shield provides backlight cutoff for floodlights. It mounts easily inside the fixture lens and can be position adjusted. The Backlight Shield is available for 16" & 23" housing sizes (it is standard on the FF Series). Order separately.

Approximate shipping weights: BLS-16: 1 lb., BLS-23: 1.5 lbs.

Accessory Code B

Button Photocell

Use Button Photocell w/120,208,240 and 277V ballast (except 480V).

Approximate shipping weight: 2 ozs.

Accessory Code P

Twist Lock Photocell

A twist-lock receptacle and photocell is supplied for all mountings except for a 2" Adjustable Slip Fitter (mounting number MA3) when a photo control is requested. Factory installed.

Approx. shipping weight: 2 ozs.

Accessory Code SPIKE

Ground Post Spike

Rigid, lightweight black PVC post recommended for use with floodlight and landscape lighting fixtures with 1/2" threaded hub including FMS Micro Floodlight, FMM Mini Floodlight and FMR Roundback Floodlight. Arched post base provides ample room for UF cable or conduit entry. Measures 19" H.

Approximate shipping weights: 4.25 lbs. (single unit), 12.75 lbs. (master pack of 6)

Accessory Code TR-23

Trunnion Mount for 23" Floods

Heavy duty stamped steel yoke with textured bronze finish. Adjustable to six positions. Mounting hardware included. Measures 24.13"L X 14.5" H

Approximate shipping weight: 15 lbs.



BAF-16, BAF-23



B



WG-12, WG-16, WG-23



P



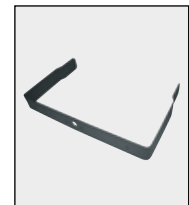
GSH-12, GSH-16, GSH-23



SPIKE



VS-12, VS-16, VS-23

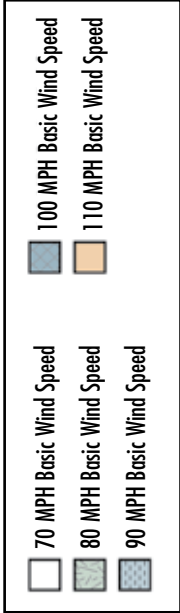
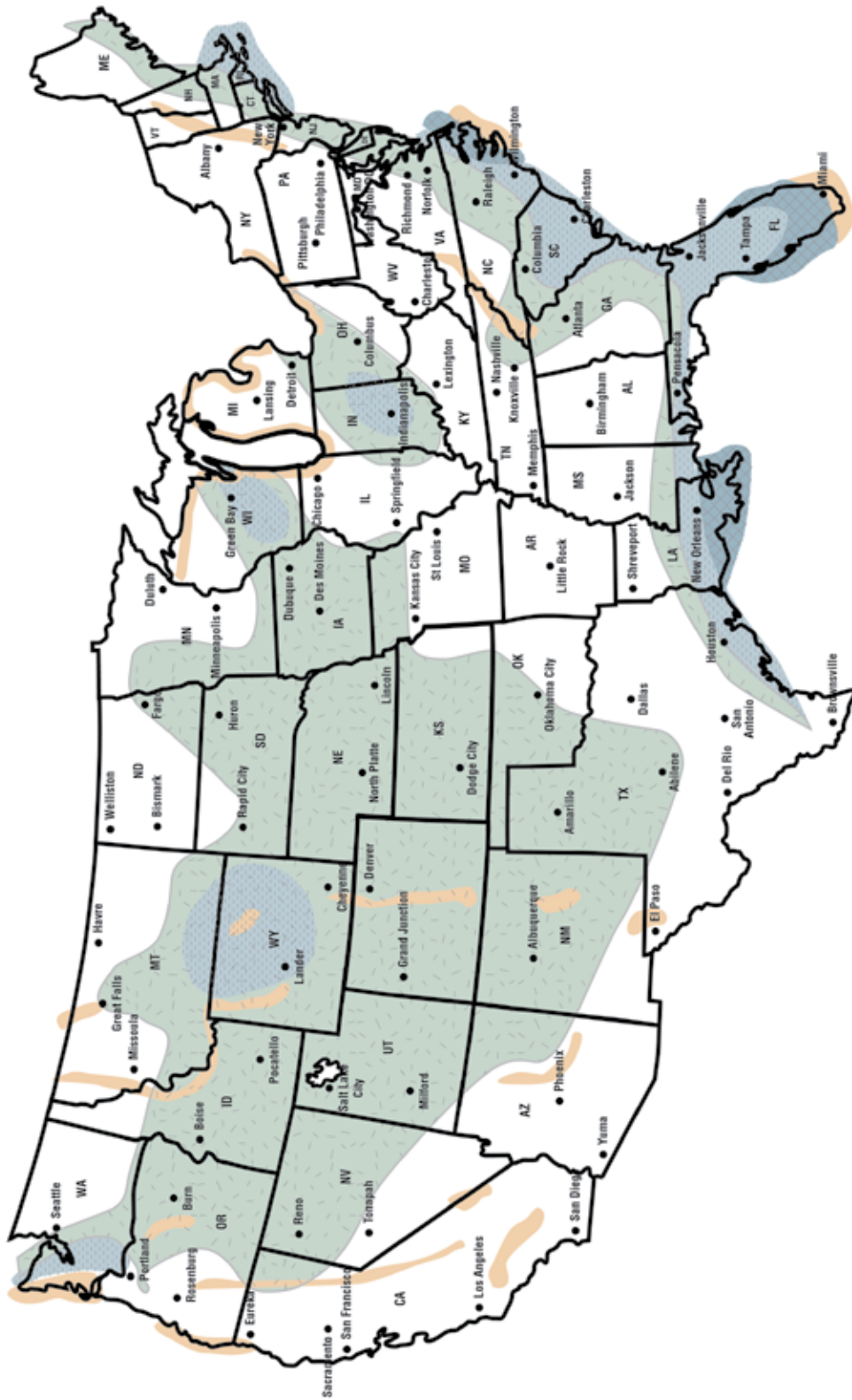


TR-23



BLS-16, BLS-23





1. Values are fastest-mile speeds at 33 ft. (10m) above ground.
2. Linear interpolation between wind speed contours is acceptable.
3. Alaska and/or special wind regions require caution in application of wind speed information.

HID Lighting Poles

No matter the application, Simkar provides an assortment of round and square steel poles, tenons and mounting accessories. Simkar’s poles feature materials and finishes resistant to chemicals, corrosion and abrasion which will enhance the pole’s aesthetic appeal and service life.

It is important to select pole(s) according to the structural requirement and to suit the specific application. Effective Projected Area (EPA) ratings on page 252 are listed for each pole and cover the full range of available fixtures with various mounting options. EPA ratings take into account a gust factor of 1.3 to ensure adequate wind loading under extreme conditions.

EPA is the exposed surface area of both the fixture and the bracket with some variation depending on the shape of the surface. Pole selection should also take into account the wind regions shown on the wind map. Base the EPA rating of the pole on the wind speed of each specific area.

When placing your order, it is also important to consider the total weight of the fixture(s) to be mounted on each pole. Simply add the total weight of all the fixtures and reference the **maximum fixture weight** listed on the pole ordering information table for each model as shown below.

Example:
Round Tapered Steel Pole Ordering Information

Pole Height	Catalog Number	Base Outer Diameter	Pole EPA Ratings Base Wind Velocity (MPH) With 1.3 Wind Gust Factor			Maximum Fixture Weight (lbs) @ 80MPH	Weight (lbs)
			80	90	100		
11 Gauge							
20'	RTSP-590A200P2-(a)(b)	5.9	19.3	15.1	12.2	482	140
	RTSP-650A200P2-(a)(b)	6.5	24.2	19.3	15.6	605	160
25'	RTSP-590A250PL-(a)(b)	5.9	12.5	9.9	8	312	155
	RTSP-700A250P2-(a)(b)	7	20.3	16.2	13.1	507	200
30'	RTSP-660A300PL-(a)(b)	6.6	11.7	9.3	7.5	292	200
	RTSP-800A300P2-(a)(b)	8	18.9	14.9	12	473	265
35'	RTSP-730A350PL-(a)(b)	7.3	11.2	8.9	7.1	280	250
	RTSP-850A350P2-(a)(b)	8.5	18.9	15.1	12.2	472	315
	RTSP-950A350P2-(a)(b)	9.5	23.2	18.2	14.5	580	370

Use these charts to calculate the correct type of pole to be used with fixtures and mounting arms selected.

- Select the chart applicable to the fixture
- Select the chart applicable to the mounting arm to be used and the angle of the fixture
- Check the wind speed in the area of the country the fixtures will be used.

- Calculate the total weight of the fixtures and mounting arms on each pole.
- Select the pole from the pole chart based on the total EPA and total weight, using the wind speed column. Allow a minimum of a 10% safety factor.
- **Please Note:** These are guidelines only — consult the factory if you are unsure.



12" Square Housings With Adjustable Fitters (MA3)

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
SPB14	1	0.66	0.91	1.03	1.21	1.26	1.31	1.32
SPB24	2 in-line	2.93	3.42	3.52	3.64	4.05	4.31	4.35
SPB34	3 in-line	4.84	5.54	5.70	6.02	6.54	6.80	6.85
SPB44180	4 in-line	6.74	7.65	7.79	8.40	8.71	9.32	9.38
SPB15	1	0.66	0.91	1.03	1.21	1.26	1.31	1.32

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
RT1	1	1.00	1.21	1.27	1.33	1.57	1.62	1.67
MP1T*	1	1.10	1.25	1.30	1.40	1.60	1.65	1.70
MP2T*	2	2.20	2.50	2.60	2.80	3.20	3.30	3.40

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
BH2	2 in-line	2.93	3.42	3.52	3.64	4.05	4.31	4.35
BH3	3 in-line	4.84	5.54	5.70	6.02	6.54	6.80	6.85
BH3T	3 @ 120	4.55	5.21	5.36	5.66	6.15	6.39	6.44
BH4	4 in-line	6.74	7.65	7.79	8.40	8.71	9.32	9.38
BH490	4 @ 90	4.02	4.40	4.45	4.59	4.68	4.79	4.83

16" Square Housings With Adjustable Fitters (MA3)

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
SPB14	1	1.00	1.50	1.70	2.00	2.10	2.20	2.30
SPB24	2 in-line	3.60	4.50	4.70	4.90	5.60	5.80	6.00
SPB34	3 in-line	5.80	7.10	7.40	7.90	8.80	9.30	9.50
SPB4490	4 @ 90°	5.00	5.60	5.70	5.90	6.10	6.30	6.50
SPB44180	4 in-line	8.00	9.70	10.00	10.90	11.60	12.60	12.90
SPB15	1	1.00	1.50	1.70	2.00	2.10	2.20	2.30

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
RT1	1	1.30	1.70	1.80	1.90	2.30	2.40	2.50
MP1T*	1	1.40	1.75	1.90	2.00	2.25	2.50	2.60
MP2T*	2	2.80	3.50	3.80	4.00	4.50	5.00	5.20

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
BH2	2 in-line	3.60	4.50	4.70	4.90	5.60	5.80	6.00
BH3	3 in-line	5.80	7.10	7.40	7.90	8.80	9.30	9.50
BH3T	3 @ 120	5.40	6.40	6.60	6.90	7.50	7.80	8.00
BH4	4 in-line	8.00	9.70	10.00	10.90	11.60	12.60	12.90
BH490	4 @ 90	5.00	5.60	5.70	5.90	6.10	6.30	6.50

23" Square Housings With Adjustable Fitters (MA3)

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
SPB14	1	2.00	2.70	2.90	3.70	3.80	4.00	4.20
SPB24	2 in-line	6.00	7.70	7.90	8.40	9.70	10.00	10.40
SPB34	3 in-line	9.70	12.00	12.50	13.50	15.40	15.80	16.20
SPB4490	4 @ 90°	8.50	9.10	9.30	9.90	10.50	10.70	10.90
SPB44180	4 in-line	13.10	15.60	16.00	18.40	19.90	21.60	22.00
SPB15	1	2.00	2.70	2.90	3.70	3.80	4.00	4.20

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
RT1	1	2.10	2.80	3.00	3.30	3.90	4.10	4.20
MP1T*	1	2.20	3.00	3.25	3.50	4.00	4.25	4.50
MP2T*	2	4.40	6.00	6.50	7.00	8.00	8.50	9.00

Catalog #	# Fixtures	0°	20°	30°	45°	60°	70°	90°
BH2	2 in-line	6.00	7.50	7.90	8.40	9.70	10.00	10.40
BH3	3 in-line	9.70	12.00	12.50	13.50	15.40	15.80	16.20
BH3T	3 @ 90	9.10	10.50	10.90	11.70	13.00	13.30	13.60
BH4	4 in-line	13.10	15.60	16.00	18.40	19.90	21.60	22.00
BH490	4 @ 90	8.50	9.00	9.30	9.90	10.50	10.70	10.90

* Multiply EPA Rating by $\frac{\text{Fixture Mount Height}}{\text{Total Pole Height}}$ = Adjusted EPA Rating



MA1 EPA Ratings for fixtures with In-Line Bracket (Only)		
Catalog #	SSB24	SSB34
SSB 12" sq. housing	1.70	2.64
SSB 16" sq. housing	2.30	3.40
SSB 23" sq. housing	3.70	5.40



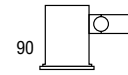
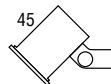
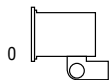
MA2 EPA ratings for 12", 16" & 23" housing with 6" Mounting Arms						
Fixture Size	STA & RTA1	STA & RTA2180	STA & RTA290	STA & RTA390	STA & RTA 3120	STA & RTA4
12"	0.58	1.22	0.98	1.51	1.56	2.08
16"	1.00	2.10	1.70	2.60	2.70	3.60
23"	2.00	4.10	n/a	n/a	n/a	n/a

MA5 EPA ratings for 12", 16" & 23" housing with 12" Mounting Arms						
Fixture Size	STA & RTA1	STA & RTA2180	STA & RTA290	STA & RTA390	STA & RTA 3120	STA & RTA4
12"	0.68	1.20	1.43	1.71	1.82	2.28
16"	1.20	2.50	3.00	3.00	3.20	4.00
23"	2.20	4.40	4.00	5.50	5.90	7.50

MA2T10 EPA ratings for 12", 16" & 23" housing with 10°/20° tilt - 6" Arms						
Fixture Size	STA1T20	STA2180T20	STA290T20	STA390T20	STA3120T20	STA4T20
12"	0.70	1.15	1.20	1.70	1.80	2.40
16"	1.30	2.10	2.20	2.30	3.10	4.40
23"	2.50	3.60	n/a	n/a	n/a	n/a

*Note: For MA2T20 EPA, Refer to 20° Column on Table to Left.

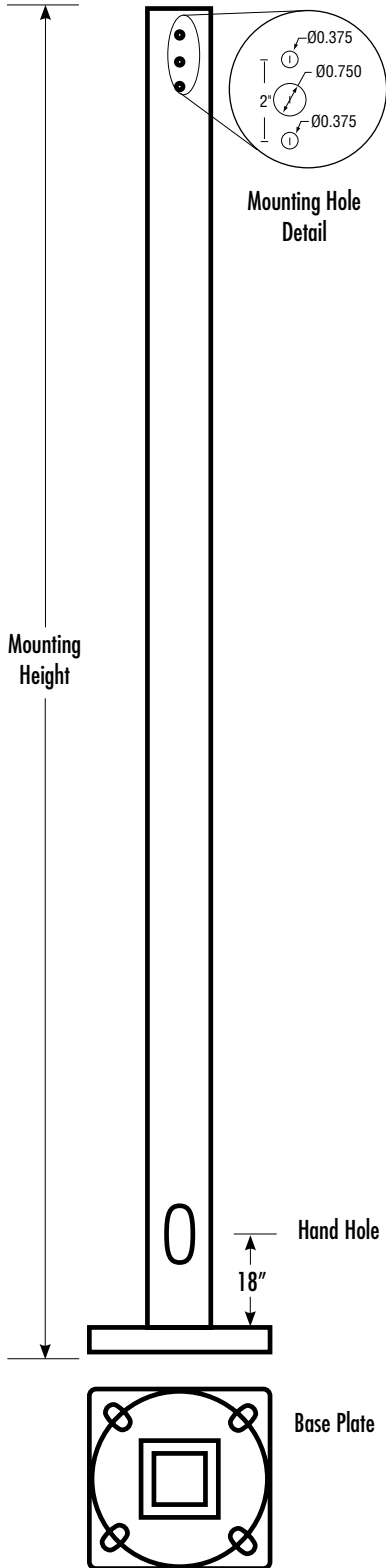
EPA ratings for fixtures with Wishbone Mount (WB) (0° tilt) w/flat lens		
	WBR	WBS
12" sq. housing	n/a	n/a
16" sq. housing	1.10	1.10
23" sq. housing	2.20	2.20



EPA ratings for FBD Series Floodlight							
Degree Tilt	0°	20°	30°	45°	60°	70°	90°
Yoke Mount	1.30	1.70	1.80	1.90	2.30	2.40	2.50
Tenon Mount (FBD-TM)	1.40	1.80	1.90	2.00	2.40	2.50	2.60
Trunnion Mount (FBD-TR)	1.40	1.80	1.90	2.00	2.40	2.50	2.60



EPA ratings for 23" FAL/FVL Series Luminaire (0° tilt) Vertical w/sag lens						
Number of Fixtures	1	2@90	2@180	3@90	3@120	4@90
6" Ext. Pole Mount arm (MA2):						
23" sq. housing	2.20	n/a	4.30	n/a	n/a	n/a
12" Ext. Pole Mount arm (MA5):						
23" sq. housing	2.40	4.20	4.60	5.70	6.10	7.70
Wishbone Mount (WB):						
23" sq. housing	2.40	n/a	n/a	n/a	n/a	n/a



Features

Shaft

Fabricated from high-grade structural steel tube, the shaft conforms to ASTM specifications. It meets or exceeds minimum yield strength of 55,000 PSI. Wall thickness is either 11 GA (0.120 wall) or 7 GA (0.180 wall) as specified (see ordering information). A reinforced hand hole is furnished with cover.

Base Plate

Fabricated from structural-quality, hot rolled steel, the base plate meets or exceeds minimum yield strength of 36,000 PSI. Bolt holes are slotted to provide flexibility on either side of bolt circle centerline.

Anchorage

Anchor bolts are made of hot rolled steel bar, having a minimum yield strength of 50,000 PSI. Bolts have a 90° bend on one end and are threaded on the other end. Bolts are galvanized 12" from the top of the thread and are furnished with two nuts and two washers.

Base Cover

ABS plastic is supplied. The two-piece cover conceals base.

Finishes

The SSP Series is available in a choice of three finishes: galvanized, electrostatically applied red oxide prime coat over two-stage cleaning process, or optional color powder coating (please specify color). Powder coat colors offer a finish that is resistant to chemicals, corrosion and abrasion, which will enhance the pole's aesthetic appeal and service life.

Fixture Mounting

Two sides of the SSP Series poles are pre-drilled. Optional 2-3/8" tenon and other mounting brackets are also available. See next page for mounting codes and mounting hole detail.

Square Steel Pole Ordering Information

Pole Height	Catalog Number	Pole EPA Ratings Base Wind Velocity (MPH) With 1.3 Wind Gust Factor			Maximum Fixture Weight (lbs) @ 80MPH	Weight (lbs)
		80	90	100		
4" Square - 11 Gauge						
10'	SSP-400Q100-(a)(b)	30.6	23.8	18.9	765	75
12'	SSP-400Q120-(a)(b)	24.4	18.8	14.8	610	90
14'	SSP-400Q140-(a)(b)	19.9	15.1	11.7	498	100
16'	SSP-400Q160-(a)(b)	15.9	11.8	8.9	398	115
18'	SSP-400Q180-(a)(b)	12.6	9.2	6.7	315	125
20'	SSP-400Q200-(a)(b)	9.6	6.7	4.5	240	140
25'	SSP-400Q250-(a)(b)	4.8	2.6	1	150	170
4" Square - 7 Gauge						
25'	SSP-400W250-(a)(b)	10.8	7.7	5.4	270	245
5" Square - 11 Gauge						
20'	SSP-500Q200-(a)(b)	17.7	12.7	9.4	443	185
25'	SSP-500Q250-(a)(b)	9.8	6.3	3.7	245	225
30'	SSP-500Q300-(a)(b)	4.7	2	n/a	150	265
5" Square - 7 Gauge						
20'	SSP-500W200-(a)(b)	28.1	21.4	16.2	703	265
25'	SSP-500W250-(a)(b)	18.5	13.3	9.5	463	360
30'	SSP-500W300-(a)(b)	10.7	6.7	3.9	267	380
35'	SSP-500W350-(a)(b)	5.9	n/a	2.5	150	740
6" Square - 7 Gauge						
30'	SSP-600W300-(a)(b)	19	13.2	9	475	520
35'	SSP-600W350-(a)(b)	12.4	7.6	4.2	310	540
40'	SSP-600W400-(a)(b)	7.2	3	n/a	180	605

Other sizes available upon request.

Pole Finish (a)

P = Prime BZ = Bronze BK = Black GLV = Galvanized

Mounting Code (b) See detail next page.

Square Steel Pole Ordering Information

Mounting Code (b)

Options

2 = 2-3/8" Tenon (SPB14 or SPB15 can be used when tenon unavailable)

DM10 = One Fixture - Direct Mount

DM290 = Two Fixtures @ 90° - Direct Mount

DM2180 = Two Fixtures @ 180° - Direct Mount

DM390 = Three Fixtures @ 90° - Direct Mount

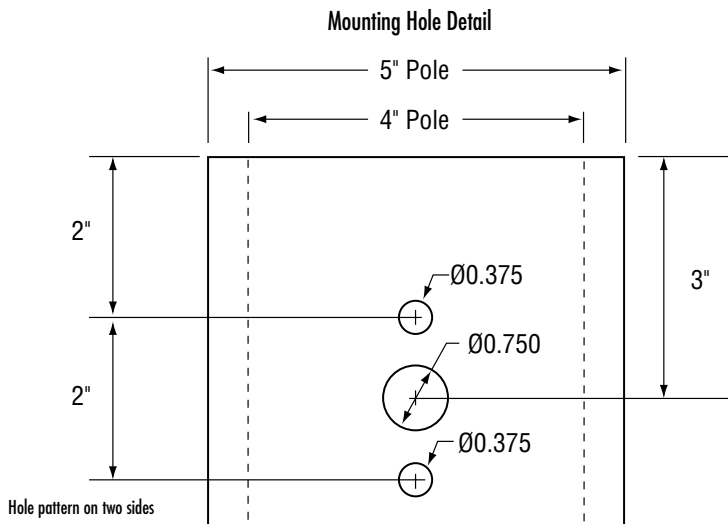
DM490 = Four Fixtures @ 90° - Direct Mount

Accessories

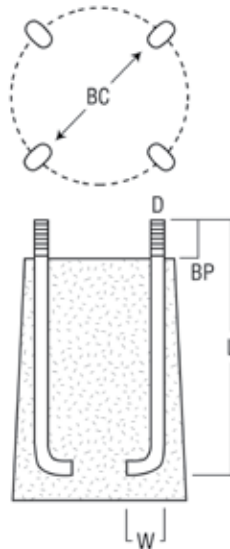
SPB14 = 2-3/8" Retrofit Tenon for 4" Pole

SPB15 = 2-3/8" Retrofit Tenon for 5" Pole

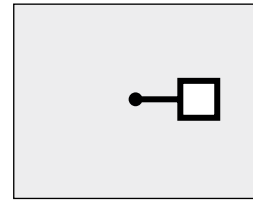
RTA3120 2-3/8" Tenon Mount for 4" Pole (Requires SPB14)



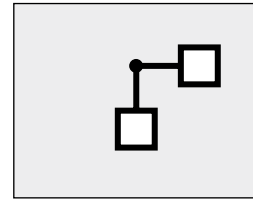
BC = Bolt Circle Diameter
 BP = Bolt Projection (6" of thread)
 D = Anchor Bolt Diameter
 L = Anchor Bolt Length
 W = Anchor Bolt Width



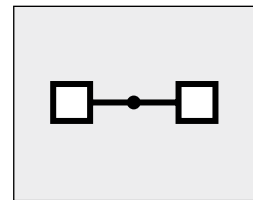
Mountings



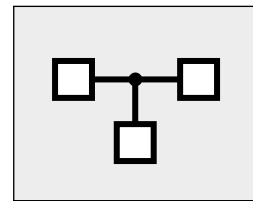
One Fixture
 Ordering Code
DM10



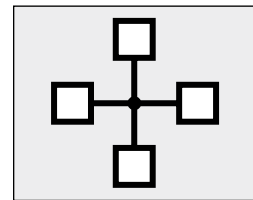
Two Fixtures
 90°
 Ordering Code
DM290



Two Fixtures
 180°
 Ordering Code
DM2180



Three Fixtures
 90°
 Ordering Code
DM390



Four Fixtures
 90°
 Ordering Code
DM490



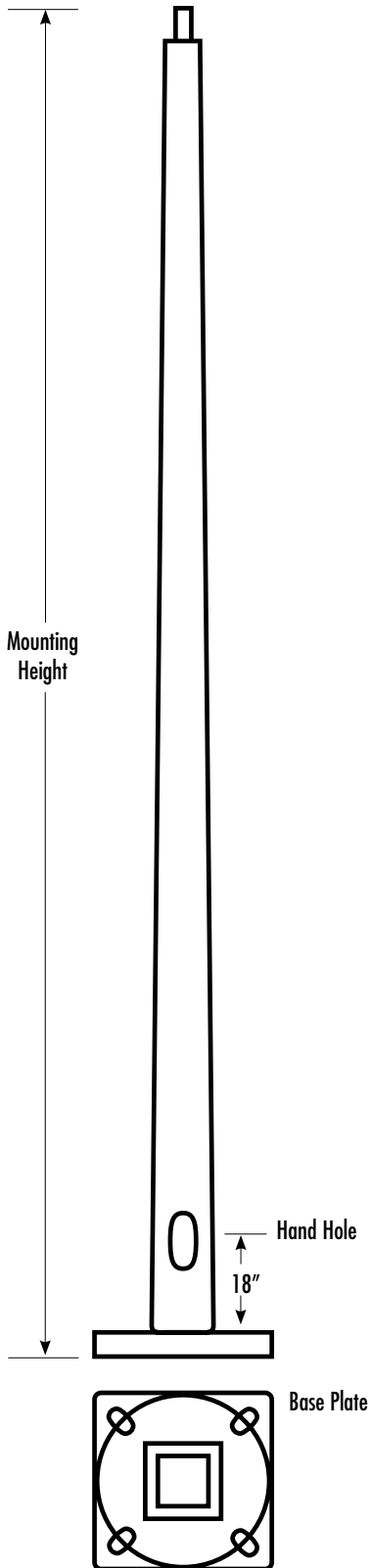
2-3/8" Tenon
 Mount for 4" Pole
 (11 gauge only)
 Ordering Code
SPB14



2-3/8" Tenon
 Mount for 5" Pole
 (11 gauge only)
 Ordering Code
SPB15



Three Fixtures
 120°
 Ordering Code
RTA3120
 (Requires
SPB14 Adaptor)



Features

Shaft

The shaft is fabricated from coil stock, weldable grade, hot rolled commercial-quality carbon steel, with a guaranteed minimum yield strength of 55,000 PSI. The shaft has uniform taper of approximately 0.14" per foot and a wall thickness of 11 GA. (0.120 wall) or 7 GA. (0.180 wall) as specified. The flushed, reinforced hand hole is furnished with a cover. A ground lug is located inside the pole on the wall opposite of the hand hole.

Base Plate

Fabricated from structural-quality, hot rolled steel, the RTSP Series meets or exceeds minimum yield strength of 36,000 PSI. The base telescopes into the pole and is circumferentially welded to the pole shaft. Bolt holes are slotted to provide flexibility on either side of the bolt circle centerline.

Anchorage

The four anchor bolts are fabricated from hot rolled steel bar, having a minimum yield strength of 50,000

PSI. Bolts have a 90° bend on one end and are threaded on the other end. Bolts are galvanized 12" from the top of the thread and are furnished with two nuts and two washers. See next page for anchor bolt specifications.

Base Cover

Fabricated from heavy gauge quality carbon steel, the two-piece cover conceals the base.

Finishes

The RTSP Series is available in a choice of three finishes: galvanized, electrostatically applied red oxide prime coat over two-stage cleaning process, or optional color powder coating (please specify color). Powder coat colors offer a finish that is resistant to chemicals, corrosion and abrasion, which will enhance the pole's aesthetic appeal and service life.

Fixture Mounting

RTSP Series mounting options use either a 2-3/8" or a 2-7/8" tenon. See next page for mounting codes.

Round Tapered Steel Pole Ordering Information

Pole Height	Catalog Number	Base Outer Diameter	Pole EPA Ratings Base Wind Velocity (MPH) With 1.3 Wind Gust Factor			Maximum Fixture Weight (lbs) @ 80MPH	Weight (lbs)
			80	90	100		
11 Gauge							
20'	RTSP-590A200P2-(a)(b)	5.9	19.3	15.1	12.2	482	140
	RTSP-650A200P2-(a)(b)	6.5	24.2	19.3	15.6	605	160
25'	RTSP-590A250PL-(a)(b)	5.9	12.5	9.9	8	312	155
	RTSP-700A250P2-(a)(b)	7	20.3	16.2	13.1	507	200
30'	RTSP-660A300PL-(a)(b)	6.6	11.7	9.3	7.5	292	200
	RTSP-800A300P2-(a)(b)	8	18.9	14.9	12	473	265
35'	RTSP-730A350PL-(a)(b)	7.3	11.2	8.9	7.1	280	250
	RTSP-850A350P2-(a)(b)	8.5	18.9	15.1	12.2	472	315
	RTSP-950A350P2-(a)(b)	9.5	23.2	18.2	14.5	580	370
39'	RTSP-782A389PL-(a)(b)	7.8	10.7	8.5	6.6	267	285
	RTSP-900A389P2-(a)(b)	9	17.2	13.5	10.8	430	355
45'	RTSP-T00A450P2-(a)(b)	10	17.4	13.5	10.6	435	450
50'	RTSP-T00A500P2-(a)(b)	10	13.2	10.6	8.3	330	475
7 Gauge							
30'	RTSP-800E300P2-(a)(b)	8	33.5	27	22	838	380
39'	RTSP-900E389P2-(a)(b)	9	28.5	23	19	715	515
50'	RTSP-T00E500P2-(a)(b)	10	20.5	16.5	13.6	512	680
	RTSP-E00E500P4-(a)(b)	11	29.9	23.5	18.6	748	812
	RTSP-H00E500P4-(a)(b)	13	50.4	39.7	31.4	1260	1020
3 Gauge							
50'	RTSP-H00J500P4-(a)(b)	13	69.2	55	44.2	1730	1335

Other sizes available upon request.

Pole Finish (a)

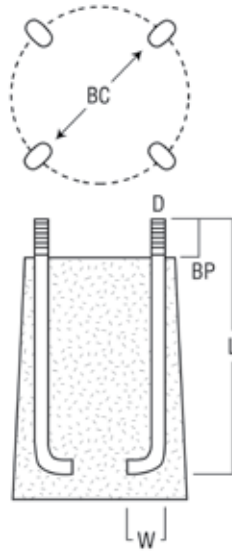
P = Prime BZ = Bronze BK = Black GLV = Galvanized

Mounting Code (b) See detail next page.

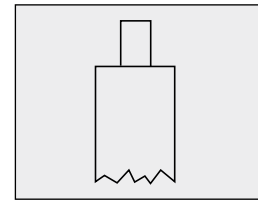
Round Tapered Steel Pole Ordering Information

Mounting Code (b)
Options
2 = 2-3/8" Tenon
3 = 2-7/8" Tenon
Accessories
RTA1 = One Fixture
RTA290 (RTA290M for 23") = Two Fixtures @ 90°
RTA2180 = Two Fixtures @ 180°
RTA3120 = Three Fixtures @ 120°
RTA390 (RTA390M for 23") = Three Fixtures @ 90°
RTA4 (RTA4M for 23") = Four Fixtures @ 90°

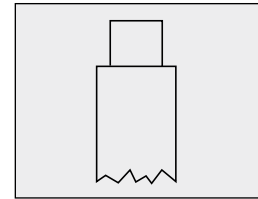
BC = Bolt Circle Diameter
 BP = Bolt Projection (6" of thread)
 D = Anchor Bolt Diameter
 L = Anchor Bolt Length
 W = Anchor Bolt Width



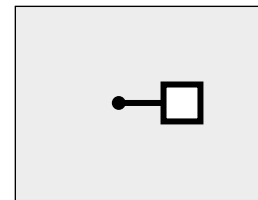
Mountings



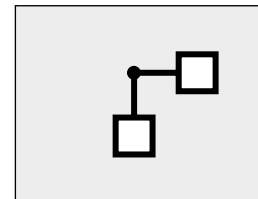
2-3/8" Tenon
 Ordering Code
2



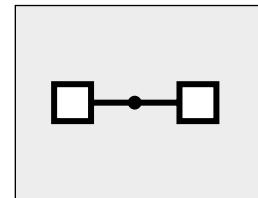
2-7/8" Tenon
 Ordering Code
3



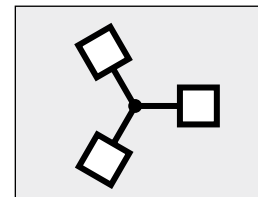
One Fixture
 Ordering Code
RTA1



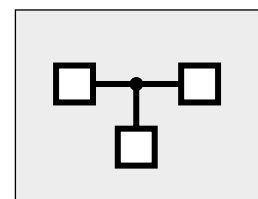
Two Fixtures
 90°
 Ordering Code
RTA290



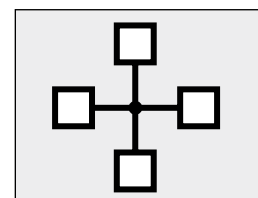
Two Fixtures
 180°
 Ordering Code
RTA2180



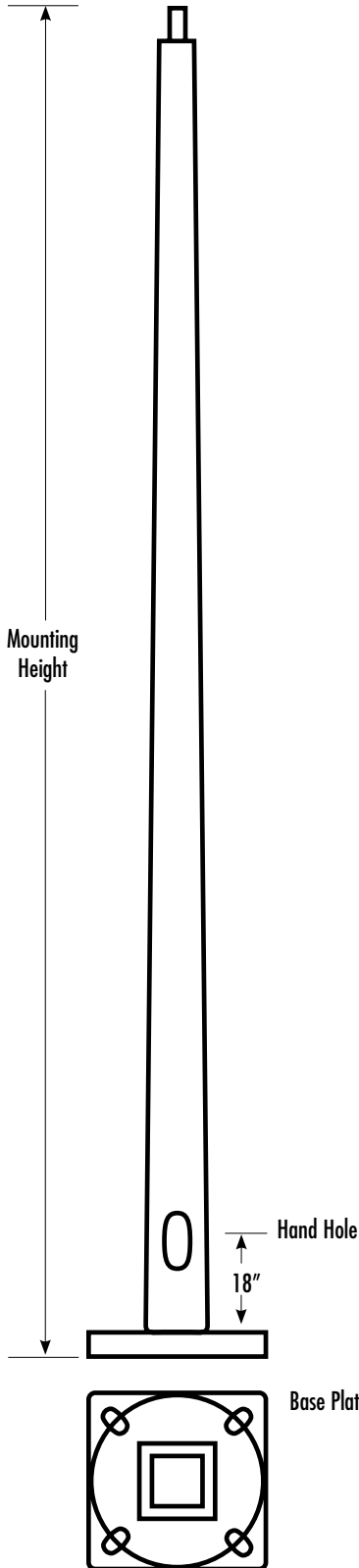
Three Fixtures
 120°
 Ordering Code
RTA3120



Three Fixtures
 90°
 Ordering Code
RTA390



Four Fixtures
 90°
 Ordering Code
RTA4



Features

Shaft

The STSP Series pole shaft conforms to ASTM A595 Grade-A and is supplied in either an 11 or 7 gauge thickness. The shaft includes a peripherally reinforced hand hole furnished with a cover and ground lug.

Base Plate

The base plate is fabricated from structural-quality, hot rolled carbon steel plate conforming to ASTM A36. The structurally-engineered base includes eight heavy wall reinforcing vertical gussets. The base telescopes and is circumferentially welded to the shaft at both the outside top and inside bottom of the base.

Anchorage

The four anchor bolts are fabricated from hot rolled steel bar, having a minimum yield strength of 50,000 PSI. Bolts have a 90° bend on one end and are threaded on the other end. Bolts are galvanized 12" from the top of the thread and are furnished with two

nuts and two washers. See next page for anchor bolt specifications and a diagram.

Base Cover

The base cover is fabricated from heavy wall aluminum construction. The two-piece cover entirely conceals the base.

Finishes

The STSP Series is available in a choice of three finishes: galvanized, electrostatically applied red oxide prime coat over two-stage cleaning process, or optional color powder coating (please specify color). Powder coat colors offer a finish that is resistant to chemicals, corrosion and abrasion, which will enhance the pole's aesthetic appeal and service life.

Fixture Mounting

STSP Series mounting options use either a 2-3/8" or a 2-7/8" tenon. See next page for mounting codes.

Square Tapered Steel Pole Ordering Information

Pole Height	Catalog Number	Base Outer Diameter	Pole EPA Ratings Base Wind Velocity (MPH) With 1.3 Wind Gust Factor			Maximum Fixture Weight (lbs) @ 80MPH	Weight (lbs)
			80	90	100		
11 Gauge							
20'	STSP-525A200-(a)(b)	5.25	18	13.8	10.7	452	155
25'	STSP-600A250-(a)(b)	6	16.8	12.6	9.5	422	205
30'	STSP-641A300-(a)(b)	6.41	13.6	9.8	7	340	260
35'	STSP-681A350-(a)(b)	6.81	10.7	7.3	4.8	269	305
39'	STSP-718A389-(a)(b)	7.18	8.6	5.4	3	215	345
7 Gauge							
20'	STSP-550E200-(a)(b)	5.5	30.5	24	19	764	235
25'	STSP-641E250-(a)(b)	6.41	28.5	22.5	18.2	713	310
30'	STSP-641E300-(a)(b)	6.41	23.6	17.9	13.7	590	375
	STSP-713E300-(a)(b)	7.13	27.4	21.6	17.3	687	431
35'	STSP-713E350-(a)(b)	7.13	23.4	17.4	13	585	475
	STSP-788E350-(a)(b)	7.88	25.7	18.8	13.8	643	540
39'	STSP-713E389-(a)(b)	7.13	19.3	14.2	10.4	483	500
45'	STSP-788E450-(a)(b)	7.88	16	11.1	7.4	400	620
	STSP-875E450-(a)(b)	8.75	23.5	16.6	11.4	588	730
50'	STSP-881E500-(a)(b)	8.81	19.4	13.2	8.7	485	780

Other sizes available upon request.

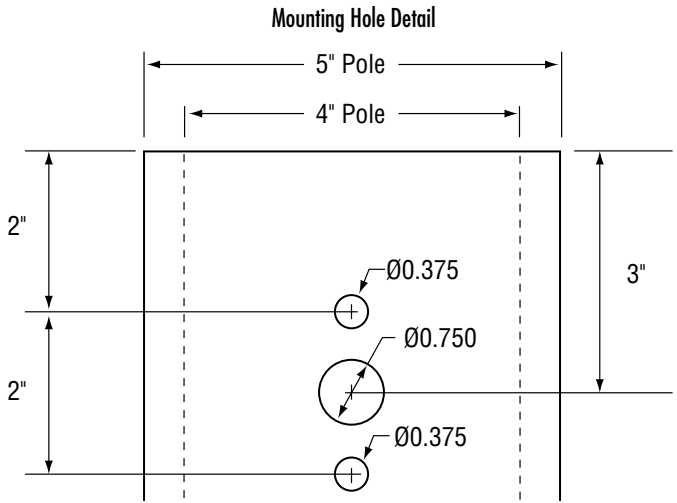
Pole Finish (a)

P = Prime BZ = Bronze BK = Black GLV = Galvanized

Mounting Code (b) See detail next page.

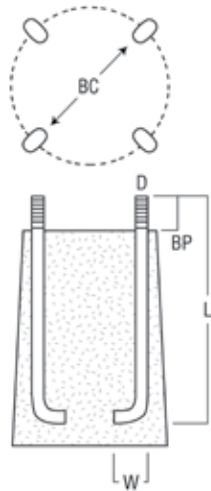
Square Tapered Steel Pole Ordering Information

Mounting Code (b)
Options
2 = 2-3/8" Tenon
DM10 = One Fixture - Direct Mount
DM290 = Two Fixtures @ 90° - Direct Mount
DM2180 = Two Fixtures @ 180° - Direct Mount
DM390 = Three Fixtures @ 90° - Direct Mount
DM490 = Four Fixtures @ 90° - Direct Mount
Accessories
RTA3120 = Adaptor for Three Fixtures @ 120° (Requires option #2, 2-3/8" tenon)

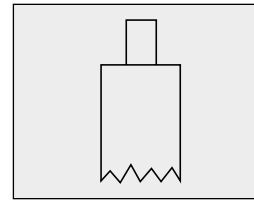


Hole pattern on two sides

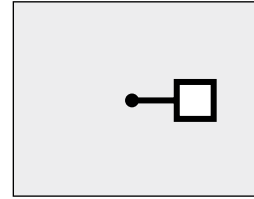
BC = Bolt Circle Diameter
 BP = Bolt Projection (6" of thread)
 D = Anchor Bolt Diameter
 L = Anchor Bolt Length
 W = Anchor Bolt Width



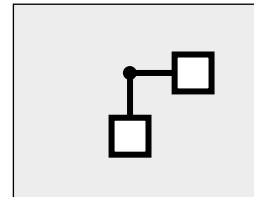
Mountings



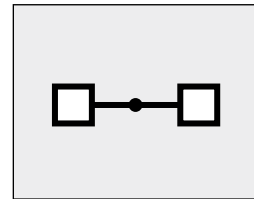
2-3/8" Tenon
 Ordering Code
2



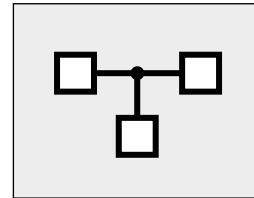
One Fixture
 Ordering Code
DM10



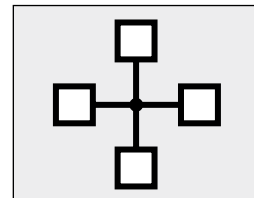
Two Fixtures
 90°
 Ordering Code
DM290



Two Fixtures
 180°
 Ordering Code
DM2180



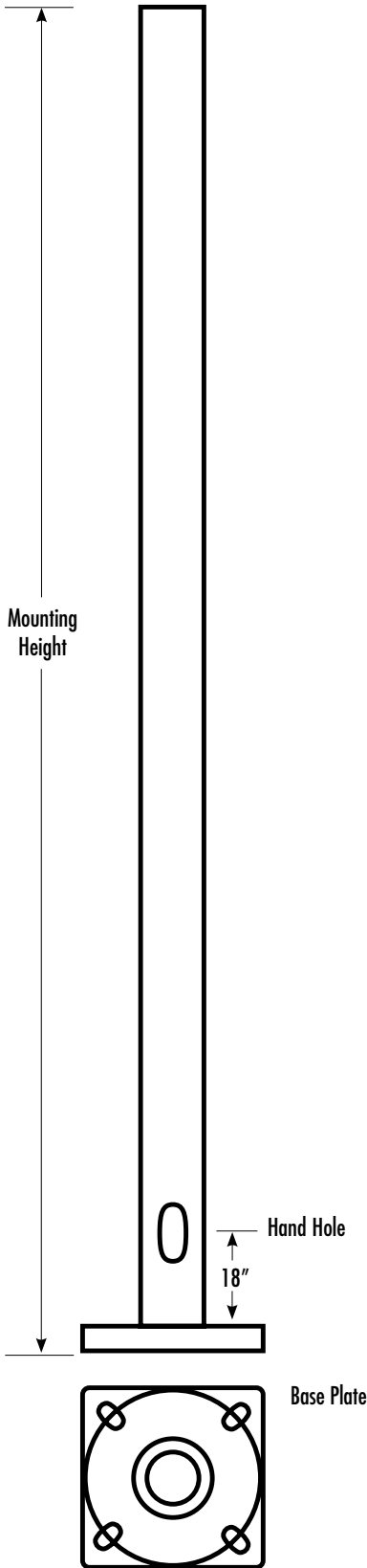
Three Fixtures
 90°
 Ordering Code
DM390



Four Fixtures
 90°
 Ordering Code
DM490



Three Fixtures
 120°
 Ordering Code
RTA3120
 (Requires option #2,
 2-3/8" tenon)



Features

Shaft

Fabricated from high-grade structural steel tube, the shaft conforms to ASTM specifications. It meets or exceeds minimum yield strength of 55,000 PSI. A reinforced hand hole is furnished with cover.

Base Plate

Fabricated from structural-quality, hot rolled steel, the base plate meets or exceeds a minimum yield strength of 36,000 PSI. Bolt holes are slotted to provide flexibility on either side of bolt circle centerline.

Anchorage

Anchor bolts are made of hot rolled steel bar, having a minimum yield strength of 50,000 PSI. Bolts have a 90° bend on one end and are threaded on the other end. Bolts are galvanized 12" from the top of the thread and are furnished with two nuts and two washers.

Base Cover

Fabricated from heavy gauge quality carbon steel, the two-piece cover conceals the base.

Finishes

The RNTP Series is available in a choice of three finishes: galvanized, electrostatically applied red oxide prime coat over two-stage cleaning process, or optional color powder coating (please specify color). Powder coat colors offer a finish that is resistant to chemicals, corrosion and abrasion, which will enhance the pole's aesthetic appeal and service life.

Fixture Mounting

RNTP Series mounting options use either a 2-3/8" or a 2 7/8" tenon. See next page for mounting codes.

Round Non-Tapered Steel Pole Ordering Information

Pole Height	Catalog Number	Base Outer Diameter	Pole EPA Ratings Base Wind Velocity (MPH) With 1.3 Wind Gust Factor			Maximum Fixture Weight (lbs) @ 80MPH	Weight (lbs)
			80	90	100		
10'	RNTP-300V100-(a)(b)	3	10	7.7	6	250	55
	RNTP-400V100-(a)(b)	4	19.1	15	12.2	480	70
	RNTP-450V100-(a)(b)	4.5	24.5	19.5	15.8	615	75
12'	RNTP-300V120-(a)(b)	3	7.7	5.8	4.4	195	60
	RNTP-400V120-(a)(b)	4	15	11.8	9.5	390	80
	RNTP-450V120-(a)(b)	4.5	19.8	15.7	12.7	495	85
14'	RNTP-300V140-(a)(b)	3	6	4.4	3.3	175	70
	RNTP-400V140-(a)(b)	4	12.2	9.4	7.6	305	90
	RNTP-450V140-(a)(b)	4.5	16.2	12.8	10.3	405	95
16'	RNTP-300V160-(a)(b)	3	4.6	3.2	2.3	125	80
	RNTP-400V160-(a)(b)	4	9.6	7.4	5.9	250	100
	RNTP-450V160-(a)(b)	4.5	13.1	10.2	8.2	330	105
18'	RNTP-300V180-(a)(b)	3	3.4	2.3	1.4	90	90
	RNTP-400V180-(a)(b)	4	7.6	5.7	4.5	190	110
	RNTP-450V180-(a)(b)	4.5	10.5	8.2	6.5	265	115
20'	RNTP-300V200-(a)(b)	3	2.4	1.4		100	100
	RNTP-400V200-(a)(b)	4	6	4.45	3.45	150	120
	RNTP-450V200-(a)(b)	4.5	8.5	6.6	5.2	215	130
25'	RNTP-500V200-(a)(b)	5	11.75	9.1	7.25	300	145
	RNTP-400V250-(a)(b)	4	2.85	1.95	1.35	100	145
	RNTP-450V250-(a)(b)	4.5	4.8	3.6	2.7	130	155
30'	RNTP-500V250-(a)(b)	5	7.25	5.5	4.25	180	180
	RNTP-450V300-(a)(b)	4.5	2.3	1.5	1	80	185
	RNTP-500V300-(a)(b)	5	4.2	3	2.25	150	210

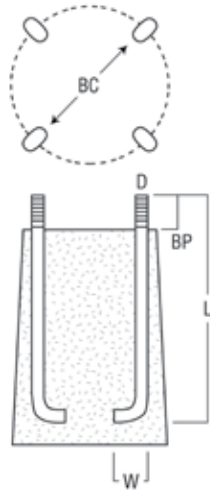
Other sizes available upon request.

Pole Finish (a)			
P = Prime	BZ = Bronze	BK = Black	GLV = Galvanized
Mounting Code (b) See detail next page.			

Round Non-Tapered Steel Pole Ordering Information

Mounting Code (b)
Options
2 = 2-3/8" Tenon
3 = 2-7/8" Tenon
Accessories
RTA1 = One Fixture
RTA290 (RTA290M for 23") = Two Fixtures @ 90°
RTA2180 = Two Fixtures @ 180°
RTA3120 = Three Fixtures @ 120°
RTA390 (RTA390M for 23") = Three Fixtures @ 90°
RTA4 (RTA4M for 23") = Four Fixtures @ 90°

BC = Bolt Circle Diameter
 BP = Bolt Projection (6" of thread)
 D = Anchor Bolt Diameter
 L = Anchor Bolt Length
 W = Anchor Bolt Width



Mountings

	2-3/8" Tenon Ordering Code 2
	2-7/8" Tenon Ordering Code 3
	One Fixture Ordering Code RTA1
	Two Fixtures 90° Ordering Code RTA290
	Two Fixtures 180° Ordering Code RTA2180
	Three Fixtures 120° Ordering Code RTA3120
	Three Fixtures 90° Ordering Code RTA390
	Four Fixtures 90° Ordering Code RTA4

Mountings

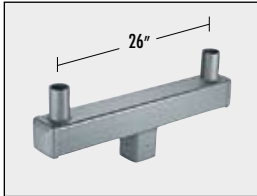
Single
(Internal mount
for 11 gauge
only)

Ordering Code
SPB14 for 4"
SPB15 for 5"



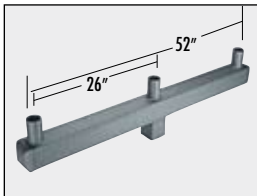
Twin

Ordering Code
SPB24



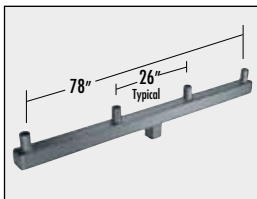
Triple

Ordering Code
SPB34



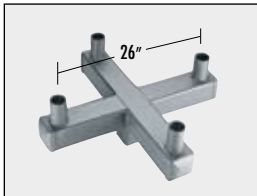
180° Quad

Ordering Code
SPB44180



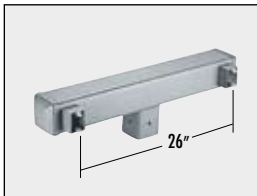
90° Quad

Ordering Code
SPB4490



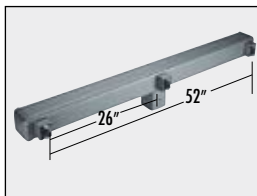
Twin Side Mount

Ordering Code
SSB24



Triple Side Mount

Ordering Code
SSB34



Dual Mount Square Series

Square Internal Mount and
2-3/8" Tenon Mount

This patented unique feature allows you to use all square series mounting options on square poles with or without 2-3/8" tenon.

SPB Series

The SPB Series is designed for use with the MA3 2" adjustable slip fitter. The tenon diameter is 2-3/8". All brackets are finished in bronze acrylic powder coating for long life. All tenons are spaced 26" apart.

2-3/8" Tenon Mount



Patent # 6,116,556

Square Internal Mount (11 gauge only)



Patent # 6,116,556

SSB Series – In Line Mount

The SSB Series has the same features as the SPB Series and comes standard with the 1-1/2" close mount arm for side mounting the 12", 16" and 23" fixtures.

Finish

All brackets are finished with a polyester bronze powder coating for longer life.

Mounting Bracket Ordering Information

Vertical Tenons	
Catalog Number/Description	Weight (lbs)
SPB14 = Single Mount 4"	5
SPB15 = Single Mount 5"	7
SPB24 = Twin Mount 4"	29
SPB34 = Triple Mount 4"	45
SPB44180 = 180° Quad 4"	67
SPB4490 = 90° Quad 4"	46

For 5" square pole internal mount use STR54 reducer.

Side Mounting Brackets	
Catalog Number/Description	Weight (lbs)
SSB24 = Twin Mount	27
SSB34 = Triple Mount	45

For 5" square pole internal mount use STR54 reducer.

Square Internal Mount Horizontal Tenons Finish

ST Series Square

The square base, with internal tenon mount, is designed to slip into either a standard 4" square, 11 gauge non-tapered steel or aluminum pole or onto a square pole with a 2-3/8" tenon.

Do not use ST290, ST390 or ST4 with 23" square fixtures. Use the STR54 5" - 4" Reducer to adapt to internal mount on 5" pole with the ST Series brackets.

STA Series With Arms

The square base, with internal tenon mount, is designed to slip into either a standard 4" square, 11 gauge non-tapered steel or aluminum pole or onto a square pole with a 2-3/8" tenon.

Available with either 6" or 12" extension arms for direct mounting to the fixture. 12" arms are required for 23" housings. For 5" poles, use STR54 Reducer.

All brackets are finished with a polyester bronze powder coating for longer life.

Drop-In Mount Tenon Adaptor Ordering Information

ST Series Mount Tenon Adaptors

Catalog Number/Description	Weight (lbs)
ST1 = Single Mount 4" Pole (not shown)	12
ST290 = 90° Twin Mount 4" Pole	14
ST2180 = 180° Twin Mount 4" Pole	14
ST390 = 90° Triple Mount 4" Pole	16
ST4 = 90° Quad Mount 4" Pole	18

For 5" square pole internal mount use STR54 reducer.

STA Series Mount Tenon Adaptors With Arms

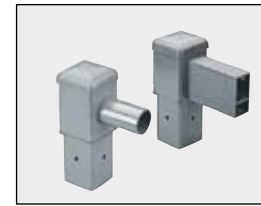
Catalog Number/Description	Weight (lbs)
STA1 = Single Mount 4" Pole - 6" Arm	12
STA1M = Single Mount 4" Pole - 12" Arm	14
STA290 = 90° Twin Mount 4" Pole - 6" Arm	14
STA290M = 90° Twin Mount 4" Pole - 12" Arm	16
STA2180 = 180° Twin Mount 4" Pole - 6" Arm	14
STA2180M = 180° Twin Mount 4" Pole - 12" Arm	16
STA390 = 90° Triple Mount 4" Pole - 6" Arm	16
STA390M = 90° Triple Mount 4" Pole - 12" Arm	19
STA4 = 90° Quad Mount 4" Pole - 6" Arm	18
STA4M = 90° Quad Mount 4" Pole - 12" Arm	20

For 5" square pole internal mount use STR54 reducer.

STR Series Reducers

Catalog Number/Description	Weight (lbs)
STR54 = 5-4" Reducer	12

Mountings



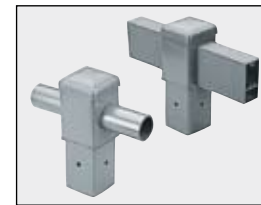
ST1 STA1

Single
Ordering Code
ST1
STA1



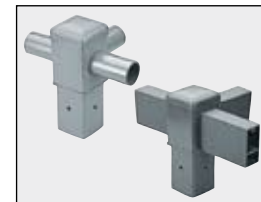
ST290 STA290

90° Twin
Ordering Code
ST290
STA290



ST2180 STA2180

180° Twin
Ordering Code
ST2180
STA2180



ST390 STA390

90° Triple
Ordering Code
ST390
STA390



ST4 STA4

90° Quad
Ordering Code
ST4
STA4



STA4

5" - 4" Reducer
(11 gauge only)
Ordering Code
STR54

**Round External Mount
With 6" or 12" Arms**

Designed to fit snugly to 2-3/8" tenons. The RTA Series uses 6" or 12" arms for direct mount to 12", 16" and 23" square fixtures. 12" arms are required for mounting 23" square fixtures at 90° and 120°.

Mounting

Uses four 5/16" allen head high tensile strength screws for securing to tenon. Cover cap snaps off for easy wiring access.

Finish

All brackets are finished with an polyester bronze powder coating for longer life.

**Round External Mount
Horizontal Tenon**

The cast aluminum RT1 mounting bracket is designed to mount on 2-3/8" - 3" tenons on round poles. Use the RT1 tenon adaptor for converting 2-7/8" pole tenons to 2-3/8".

Mounting

Uses six 5/16" allen head high-tensile strength screws for attaching to tenon. Removable wiring cover is gasketed.

Finish

All brackets are finished with an polyester bronze powder coating for longer life.

Mountings



Single
Ordering Code
6" Arm:
RTA1
12" Arm:
RTA1M



90° Twin
Ordering Code
6" Arm:
RTA290
12" Arm:
RTA290M



180° Triple
Ordering Code
6" Arm:
RTA2180
12" Arm:
RTA2180



90° Triple
Ordering Code
6" Arm:
RTA390
12" Arm:
RTA390M



120° Triple
Ordering Code
6" Arm:
RTA3120
12" Arm:
RTA3120M



90° Quad
Ordering Code
6" Arm:
RTA4
12" Arm:
RTA4M

External Mount Tenon Adaptor Ordering Information

Catalog Number/Description	Weight (lbs)
RTA1 = Single Mount 6" Arm	13
RTA1M = Single Mount 12" Arm	15
RTA290 = 90° Twin Mount 6" Arm	15
RTA290M = 90° Twin Mount 12" Arm	19
RTA2180 = 180° Twin Mount 6" Arm	15
RTA2180M = 180° Twin Mount 12" Arm	19
RTA390 = 90° Triple Mount 6" Arm	17
RTA390M = 90° Triple Mount 12" Arm	23
RTA3120 = 120° Triple Mount 6" Arm	17
RTA3120M = 120° Triple Mount 12" Arm	23
RTA4 = 90° Quad Mount 6" Arm	19
RTA4M = 90° Quad Mount 12" Arm	27

Arms for RTA Series

Catalog Number/Description	Weight (lbs)
MA2R = 6"	3
MA5R = 12"	4

All arms supplied with mounting hardware.

Presized for use with 4" Non-Tapered Poles Only – Not recommended for use with tapered poles.



Single
Ordering Code
RT1

Catalog Number/Description	Weight (lbs)
RT1 = Single Mount	4



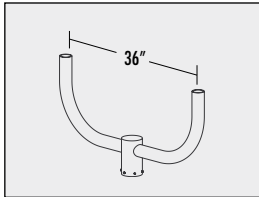
**Pole Top Luminaire Mounting
Adaptors**

For use with steel 2-3/8" O.D. tenon. Bull Horns come with a standard rust-resistant bronze finish.

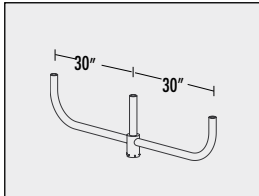
Standard Finishes

All bullhorns come standard with a polyester powder coat finish in bronze. Please consult factory for other color options.

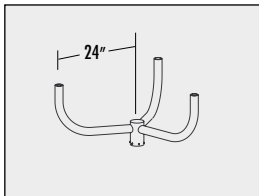
2 Arm
Ordering Code
BH2



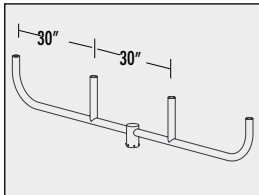
3 Arm - Straight
Ordering Code
BH3



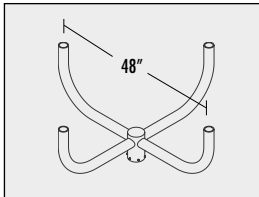
3 Arm - 120°
Ordering Code
BH3T



4 Arm - Straight
Ordering Code
BH4



4 ARM - 90°
Ordering Code
BH490



Bull Horn Ordering Information

Catalog Number/Description	Weight (lbs)
BH2 = 2 Arm, EPA Rating of 1.6	30
BH3 = 3 Arm, EPA Rating of 2.3	44
BH3T = 3 Arm - 120°, EPA Rating of 1.6	39
BH4 = 4 Arm - Straight, EPA Rating of 2.6	59
BH490 = 4 Arm - 90°, EPA Rating of 1.9	55

Outdoor Mounting Alternatives Ordering Information

Catalog Number / Description

- MP1T** = Mid-Pole Bracket for single fixture
- WP2** = Wall Mount Brackets - Horizontal 2 3/8" Tenon
- WP3A** = Wall Mount for Arm
- WP3** = Two Piece Wall Mount for Arm
- WP3S** = Wall Mounting Bracket for 12" Sq Housing Only
- WP4** = Vertical 2 3/8" Tenon
- RSY4** = Pole Bracket for Yoke Mount
- CA1** = Cross Arm Adaptor (Use with MA4 Yoke & SLF Fixture)
- FBD-TM** = Tenon Mount Adaptor for FBD
- MA6-TA** = Tenon Adaptor for FFS, FFM, & FMR
- MA3** = 2" Adjustable Slip Fitter
- MA4** = Yoke Mount

Mid-Pole Bracket Tenon Adaptor

Ordering Code **MP1T**

Two 3" X 11" square steel arms bolt securely to the side of a square steel pole and provide a 2-3/8" O.D. vertical tenon to mount a floodlight with our MA3 2" Adjustable Slip Fitter. Two 1/2" bolts (not furnished) are recommended to mount the bracket to the pole. Bolt centers are 4-1/2". A friction-fit end cap is provided to enclose the wiring chamber. NOTE: The pole must be field-drilled before installation of the Mid-Pole Bracket. Approximate shipping weight is 8 lbs.

Wall Mount Horizontal Tenon

Ordering Code **WP2**

Using the MA3 2" Adjustable Fitter, the WP2 mounts directly on a flat structure using four 3/8" bolts (not included).

Wall Mount Bracket

Ordering Code **WP3A**

The WP3A Series Bracket attaches an outdoor light, over a junction box, to any flat surface. Measures 5" X 5". Add MA1, MA2 or MA5 arms for spacing the fixture.

Two-Piece Wall Mount Bracket

Ordering Code **WP3**

This two-piece wall mount bracket allows you to mount the 5" X 7" flat steel plate to the wall. The other half is premounted to the fixture using either the MA1, MA2 or MA5 arms for different spacing. (Please order arm separately). The two parts then slip together for easy installation.

Wall Mount Bracket

For 12" Square Housing Only

Ordering Code **WP3S**

Developed for the 12" FS Series shoebox fixtures, this bracket is ideal for close mounting to a vertical structure. Supplied with 1-1/2" spacer and mounting hardware (wall mount bolts not included). Size is 5" X 7-1/2".

Wall Mount Vertical Tenon

Ordering Code **WP4**

Use with the MA3 2" Adjustable Fitter for mounting any 12", 16" or 23" housing to a flat structure (9" from wall). Recommend using four 3/8" bolts (not included).

Pole Bracket for Yoke Mount

Ordering Code **RSY4**

Use with MA4 yoke mount. Adapts to any 2-3/8" tenon. Approximate shipping weight is 5 lbs.

Cross Arm Mount Bracket

Ordering Code **CA1**

Designed to be used on wooden or steel cross arms when using a trunnion or yoke mount fixture.

Tenon Mount Adaptor for FBD

Ordering Code **FBD-TM**

Designed to be used with the FBD flood light to adapt to any 2-3/8" tenon.

1/2" Tenon Adaptor

Ordering Code **MA6-TA**

1/2" Adaptor for 2-3/8" tenon: MA6-TA used on FMS, FMM & FMR to mount on standard 2-3/8" tenon. Approximate shipping weight is 1lb.

2" Adjustable Slip Fitter

Ordering Code **MA3**

Slip-fits over a 2" pole or tenon (2.375" O.D.). Allows vertical tilt in 2.5° increments, as well as lateral rotation. Threaded knockout provided for field-installed button photocell. Approx. 2 lbs.

Yoke Mount

Ordering Code **MA4**

Ideal for wall, ground, roof, or wood pole mounting; bolts directly to almost any surface. Mounts to fixture housing from outside using 5/16" x 1" bolts. Allows vertical tilt to any angle, and double locks at 0°, 20°, 30°, 60°, 70°, or 90° tilt angle. Use RSY4 pole bracket for tenon mounting. Approx. weight 3 lbs.



MP1T



WP3S



WP2



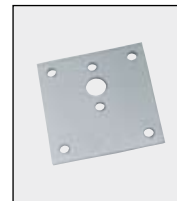
WP4



WP3



RSY4



WP3A



CA1



FBD-TM



MA6-TA



MA3



MA4

All brackets on this page are standard with our weather guard finish bronze polyester powder topcoat. Consult factory for availability of other finish colors.

Important notice regarding probe start metal halide fixtures

The **Energy Independence and Security Act of 2007** (HR6) bans the sale of virtually all probe start metal halide fixtures from 150W to 500W as of January 1, 2009. Only certified pulse start metal halide fixtures will be manufactured at that time. Those fixtures will be identified with a “circle-E” logo on the packaging and ballast as shown here:



Existing probe start metal halide fixtures manufactured before that date can be sold until inventories are depleted. Some metal halide fixtures are exempt, but the vast majority are banned.

Technical Review

Starting January 1, 2009, lighting fixtures manufactured for operation with metal halide lamps from 150W to 500W must contain ballasts as follows:

<u>Ballast</u>	<u>Minimum ballast efficiency</u>
Pulse-start metal halide ballast	88%
Magnetic probe-start ballast*	94%
Electronic ballast (not pulse-start)	90% if <250W 92% if >250W

*** Industry cannot meet efficiency standard with present day technology**

Exemptions

The standards do not apply to:

- Fixtures with regulated lag ballasts;
- Fixtures that use electronic ballasts that operate at 480V; or
- Fixtures rated only for 150W lamps, for use in wet locations, and contain a ballast rated to operate at ambient air temperatures above 50°C.

If you wish to review a copy of the law, refer to:

Energy Independence and Security Act of 2007 (HR6)

Subtitle B—Lighting Energy Efficiency

H. R. 6—3

Section 324, Metal Halide Lamp Fixtures



HID

SPECIALTY LIGHTING

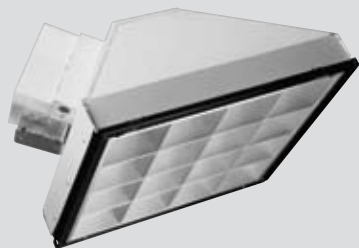
Simkar continuously strives to provide innovative technology and unique designs for specialized applications. Whether seeking a lighting solution for billboard signage, a landscape design, or a poultry house - Simkar offers the answer.

The round and square Bollards are architecturally designed fixtures that can be used for walkways, drives, entrances and other public areas. Available in three heights, these fixtures feature a removable top section that allows for ease of relamping - and are UL listed for wet locations.

Simkar's RMVG Series fixtures are typically used in low-height areas that require high quality illumination - ideal for office, commercial, or retail settings such as automotive showrooms. These fixtures feature potted ballasts for quiet sound during operation and are available with recessed louvers or lenses.

The R-CAD Series prismatic refractors and aluminum reflectors are designed to increase light levels by upgrading all mogul-based, highbay fixtures. R-CAD units deliver 20 to 25% increased light levels by replacing existing deteriorated shades. The R-CAD Series are perfect solutions for retail stores, gymnasiums, manufacturing centers, and warehouse areas.

Wattage Range:
175 - 400W (Magnetic)



Shown is RMVG housing with 16-cell louver.

Lamp Included

The HID 2 x 2 Recessed is typically used in areas that require high quality illumination. Fixture is ideal for showroom, commercial, or retail settings.

Features

Housing

The 20-gauge steel housing is coated with a high-reflectance white finish.

Ballast

A potted magnetic multi-tap ballast is supplied. Please specify voltage for factory wiring.

Lamps

Available with 175W, 250W and 400W MH and 250-400W Pulse Start MH lamps or 150W - 400W HPS mogul based, vertical burn open rated lamps. Coated lamps are standard.

Optics

Semi-specular parabolic 9-cell or 16-cell louvers are available. See photometric data below.

Thermal Protection

All fixtures are fitted with a thermal protector to avoid overheating.

Mounting Options

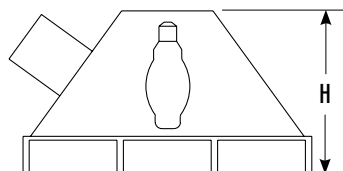
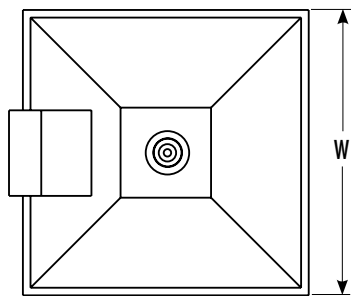
Designed to fit a standard 2' x 2' grid, using a T-type ceiling support bracket.



40 °C Ambient Rated
Listed for Recessed /Damp Locations
Contact Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Approx. Ship Wt.
RMVG Series	15"	23.75"	40 lbs.

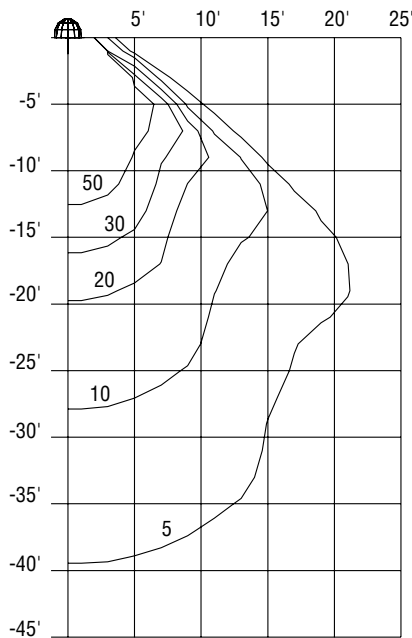


Photometric Data

(Isofootcandle Plots)

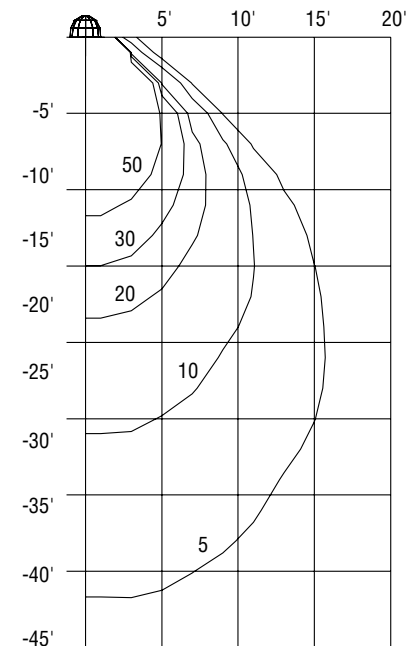
9 Cell Louver

Lamp: 350W Coated MH/PS
Lumens: 35,000



16 Cell Louver

Lamp: 350W Coated MH/PS
Lumens: 35,000

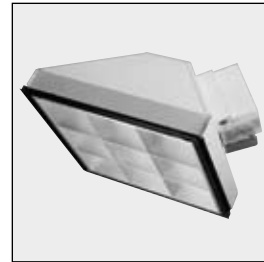


Recessed Fixture Order Information

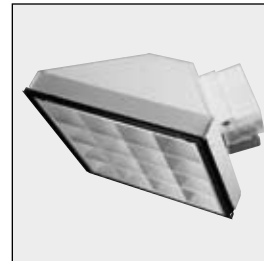
Housing Size	Lamp Type	Catalog Number
24" Square	175W MH	RMVG217-(a)(b)
Grid Mount	250W MH	RMVG225-(a)(b)
	Ⓢ 250W MH/PS	RMVG925-(a)(b)
	Ⓢ 320W MH/PS	RMVG932-(a)(b)
	Ⓢ 350W MH/PS	RMVG935-(a)(b)
	400W MH	RMVG240-(a)(b)
	Ⓢ 400W MH/PS	RMVG940-(a)(b)
	150W HPS	RMVG515-(a)(b)
	250W HPS	RMVG525-(a)(b)
	400W HPS	RMVG540-(a)(b)

Voltage (a)	Options (b) (Factory Installed)
1 = 120V	Q = Quartz Standby (Includes Quartz Lamp) L9 = 9 Cell Louver L16 = 16 Cell Louver
2 = 277V	
3 = 208V	
4 = 240V	
5 = 480V	

Louver Options



9 Cell Lens
Ordering Code
L9



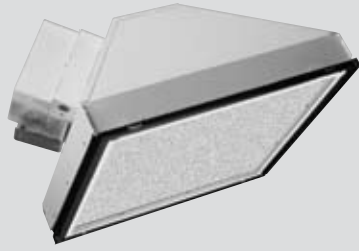
16 Cell Lens
Ordering Code
L16

Example

RMVG 2 17 2

Series	Light Source	Wattage	Voltage
RMVG = 2 x 2 Recessed Louver	2 = Open Rated MH	17 = 175W	2 = 277V

Wattage Range:
175 - 400W (Magnetic)



Shown is RMVG housing with F73 flat prismatic glass lens.

Lamp Included

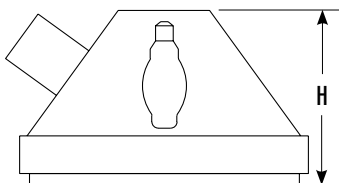
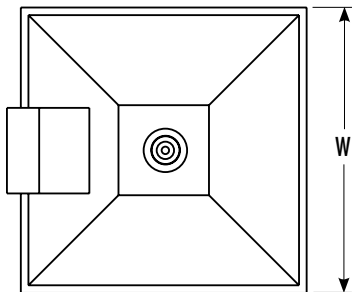
The HID 2 x 2 Recessed is typically used in areas that require high quality illumination. Fixture is ideal for showroom, commercial, or retail settings.



40 °C Ambient Rated
Listed for Recessed /Damp Locations
Contact Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Approx. Ship Wt.
RMVG Series	15"	23.75"	40 lbs.



Features

Housing

The 20-gauge steel housing is coated with a high-reflectance white finish.

Ballast

A potted magnetic CWA multi-tap ballast is supplied. Please specify voltage for factory wiring.

Lamps

Available with 175W, 250W and 400W MH and 175-400W Pulse Start MH lamps or 150W - 400W HPS mogul based, vertical burn lamps. Coated lamps are standard.

Optics

Fixtures are supplied with one of a variety of lenses in either flat or drop style. Flat versions are available in clear glass, C73 prismatic glass, acrylic or polycarbonate. Drop versions are available in polycarbonate or acrylic.

Thermal Protection

All fixtures are equipped with a thermal protector to avoid overheating.

Mounting Options

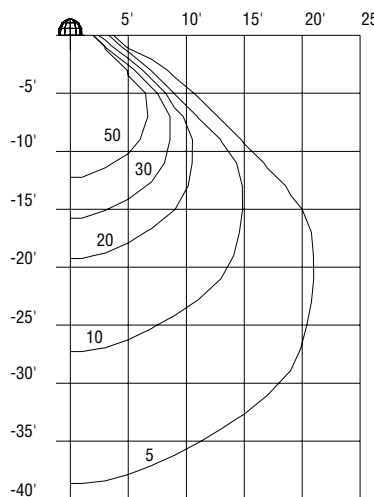
Designed to fit a standard 2' x 2' grid, using a T-type ceiling support bracket.

Photometric Data

(Isofootcandle Plots)

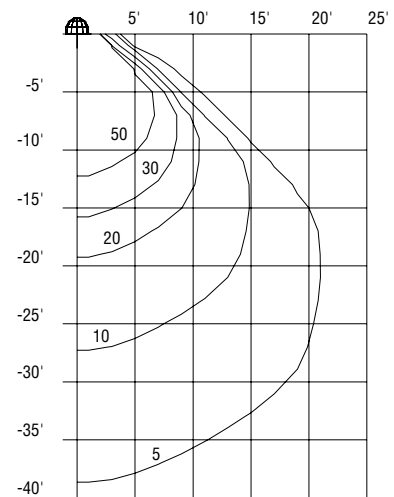
Flat Prismatic Glass Lens (C73)

Lamp: 350W Coated MH/PS
Lumens: 35,000



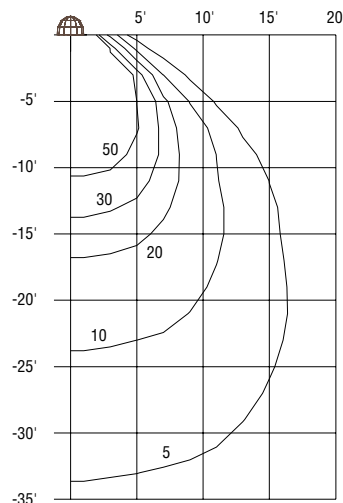
**Flat Clear Acrylic Lens
Flat Polycarbonate Lens
Flat Clear Glass Lens**

Lamp: 350W Coated MH/PS
Lumens: 35,000



Acrylic / Polycarbonate Drop Lens

Lamp: 350W Coated MH/PS
Lumens: 35,000



Recessed Fixture Order Information

Housing Size	Lamp Type	Catalog Number
24" Square	175W MH	RMVG417-(a)(b)
Grid Mount	175W MH/PS	RMVG817-(a)(b)
	250W MH	RMVG425-(a)(b)
	250W MH/PS	RMVG825-(a)(b)
	320W MH/PS	RMVG832-(a)(b)
	350W MH/PS	RMVG835-(a)(b)
	400W MH	RMVG440-(a)(b)
	400W MH/PS	RMVG840-(a)(b)
	150W HPS	RMVG515-(a)(b)
	250W HPS	RMVG525-(a)(b)
	400W HPS	RMVG540-(a)(b)

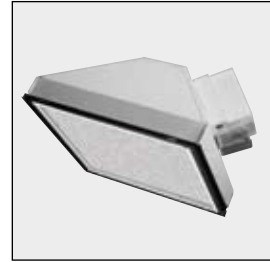
Voltage (a)	Options (b) (Factory Installed)
1 = 120V	Q = Quartz Standby (Quartz Lamp Included)
2 = 277V	F73 = Flat Prismatic Glass Lens (C73)
3 = 208V	FAL = Clear Flat Acrylic Lens
4 = 240V	FPL = Clear Flat Polycarbonate Lens
5 = 480V	FGL = Clear Flat Glass Lens
	DAL = Drop Acrylic Lens
	DPL = Drop Polycarbonate Lens

Example

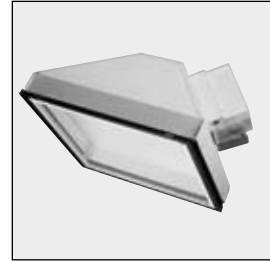
RMVG 2 17 2

Series	Light Source	Wattage	Voltage
RMVG = 2 x 2 Recessed Louver	2 = MH	17 = 175W	2 = 277V

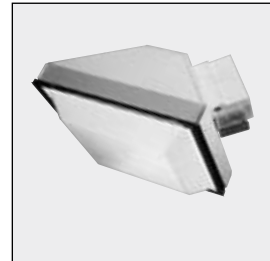
Lens Options



Flat Prismatic Glass Lens
Ordering Code **F73**



Clear Flat Glass Lens
Ordering Code
FAL (Acrylic)
FPL (Polycarbonate)
FGL (Glass)



Drop Lens
Ordering Code
DAL (Acrylic)
DPL (Polycarbonate)

Wattage Range:
35 - 70W



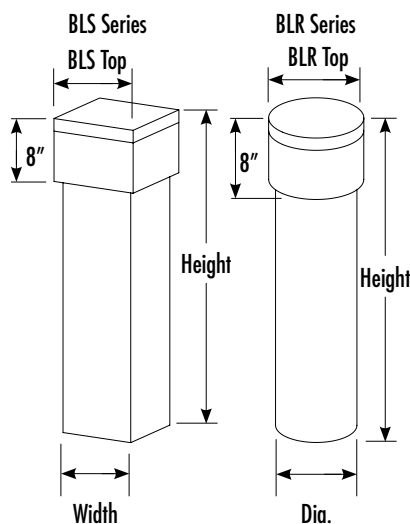
The **BL Series** are architecturally designed round and square bollards that can be used for walkways, drives, entrances and other public areas.



Listed for Wet Locations
Contact Factory for CUL Availability

Dimensions

	Fixture Pole Size	Fixture Top Size	Fixture Height	Approx. Ship Wt.
BLR Series	6"	7"	24"/36"/42"	28 lbs.
BLS Series	6"	7"	24"/36"/42"	25 lbs.



Features

Housing

Designed from durable seamless extruded aluminum, bollards are offered in three pole heights in either round or square styles. A removable top section allows for ease of relamping. A bronze polyester powder coat is standard on all bollards, but optional white or black may be ordered. Contact factory for other color options.

Ballast

Metal halide fixtures are supplied with high reactance, high power factor multi-tap ballasts. All high pressure sodium fixtures are provided with a 120V reactor ballast (optional HPF available) or a high reactance, high power factor multi-tap ballast.

Lamps

High pressure sodium fixtures in 35W, 50W and 70W come standard with a medium base lamp. Metal halide fixtures are provided with open rated medium base lamps.

Mounting Options

Each bollard is furnished with a heavy-duty aluminum base plate which mounts to the ground using the included 3-3/8" x 6" anchor bolts and leveling nuts.

BLR Series Round Bollard Order Information

Pole Diameter	Lamp Type	Catalog Number
6" round pole	50W MH/PS	BLR(x)905-M*(b)
	70W MH/PS	BLR(x)907-M*(b)
	35W HPS (120V NPF)	BLR(x)503-1*(b)
	50W HPS (120V NPF)	BLR(x)505-1*(b)
	50W HPS	BLR(x)505-M*(b)
	70W HPS (120V NPF)	BLR(x)507-1*(b)
	70W HPS	BLR(x)507-M*(b)

* M = Multi-tap tapped @ 277V; 1 = 120V (30-150 HPS only (NPF))

BLS Series Square Bollard Order Information

Pole Diameter	Lamp Type	Catalog Number
6" square pole	50W MH/PS	BLS(x)905-M*(b)
	70W MH/PS	BLS(x)907-M*(b)
	35W HPS (120V NPF)	BLS(x)503-1*(b)
	50W HPS (120V NPF)	BLS(x)505-1*(b)
	50W HPS	BLS(x)505-M*(b)
	70W HPS (120V NPF)	BLS(x)507-1*(b)
	70W HPS	BLS(x)507-M*(b)

* M = Multi-tap tapped @ 277V; 1 = 120V (30-150 HPS only (NPF))

BL Series Fixture Heights and Options

Fixture Height (x)	Options (b) (Factory Installed)
A = 24" total fixture height	HPF = High Power Factor (120V HPS only)
B = 36" total fixture height	WT = White Housing
C = 42" total fixture height	BK = Black Housing

Wattage Range:
70 to 150 W



Lamp Included

Available in 120V, The Producer is a versatile and durable fixture designed for difficult and harsh environments such as poultry houses and wash down, heavy-duty applications.

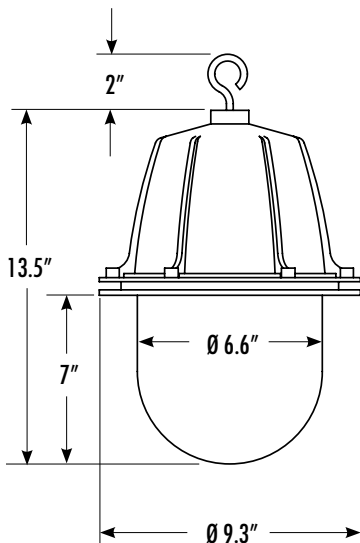


40 °C Ambient Rated
Listed for Wet Locations

Contact Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Diameter
PR Series	13.5"	9.3"	9.3"



Features

Housing

The cast aluminum housing is electrostatically powder coated to withstand extreme environments associated with poultry houses.

Ballast

The fixture includes a normal power factor (NPF) ballast.

Lamps

The Producer comes standard with HPS lamps.

Optics

A heavy-duty prismatic borosilicate bell glass is mounted to the housing using a cast aluminum ring with stainless steel hardware.

Wiring

All units are supplied with a 6' SOW 16/3 cord. A 120V plug is available in twist-lock or straight blade.

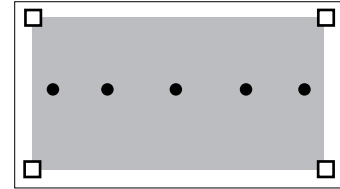
Gasket

The Producer incorporates watertight neoprene gaskets for use in wet locations.

Mounting Options

A stainless steel hook is standard for hanging the fixture from a structure.

Typical Poultry House
PR Series



100W High Pressure Sodium

Mounting Height: 15'

Spacing: 20'

Average 7 footcandles

150W High Pressure Sodium

Mounting Height: 15'

Spacing: 20'

Average 10 footcandles

PR Series Order Information

Housing Size	Lamp Type	Hook & Cord	Hook, Cord, & Plug
9"	70W	PR1507-1*	PR2507-1*(b)
	100W	PR1510-1*	PR2510-1*(b)
	150W	PR1515-1*	PR2515-1*(b)

*120V

Options (b) (Factory Installed)

SB = Straight Blade Plug (120V)
TL = Twist + Lock Plug (120V NEMA L5-15P)*

*Standard on fixtures with hook, cord, & plug

Number of Fixtures Per Circuit (Maximum)

Lamp Type	Voltage	Power Factor	Based On			
			Operating Amps		Nominal Amps	
			Fixtures 20 (A)	Circuit 30 (A)	Fixture Oper. Amps	Amps Start. Amps
LU70	120	NPF	9	14	1.7	3.2
	120	HPF	20	30	0.8	2.1
LU100	120	NPF	6	10	2.3	4.8
	120	HPF	13	20	1.2	2.5
LU150	120	NPF	4	6	3.5	4.8
	120	HPF	9	14	1.7	4.1

Wattage Range:
175 to 400 W



Lamp Included

This narrow cutoff luminaire is designed to illuminate signs or billboards with minimum light spill.

Features

Housing

The sleek square 16" die cast aluminum housing with flush doorframe and rounded edges comes standard with a bronze polyester powder coat. Other colors are available upon request.

Ballast

All fixtures are supplied with a high power factor constant wattage ballast in multi-tap or 480V. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to the highest voltage.

Optics

An IES Type IV narrow cutoff distribution that minimizes light spill.

Lamps

All FSM Series fixtures are supplied with a 175-400W mogul base lamp.

Gasket

Complete silicone gasketing around lens frame and at mounting provide a watertight seal. Fixture is recommended to have a minimum 1° tilt on luminaire face.

EPA Ratings

Because of its unique design, lower EPA ratings are achieved, resulting in lower pole costs. See page 252 for EPA Ratings.

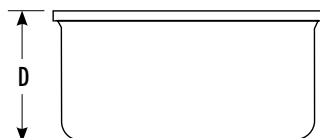
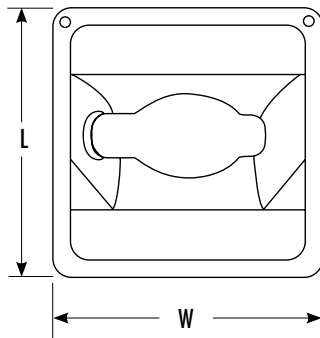
Mounting Options

For a complete description of mounting options, refer to information beginning on page 254.

 55 °C Ambient Rated
Listed for Wet Locations
Contact Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FSM Series	16.4"	16.4"	7.0"	38 lbs.

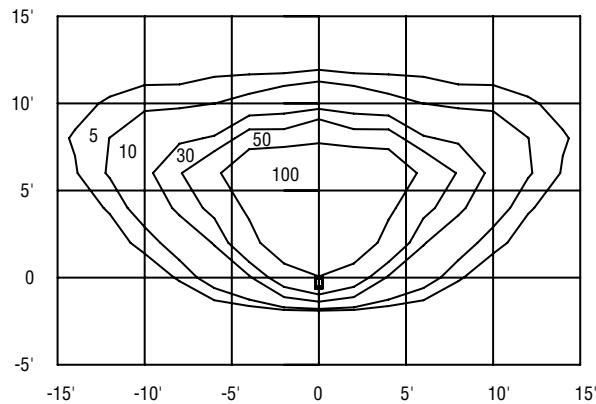


Photometric Data

(Isofootcandle Plots)

16" Sign Light

Cat #: FSM3440
Lumens: 32,000
Mounting Distance: 5'
Certified Test Report: LTL06474
IES File: FSM440.IES
Tilt: 1100



Sign Light Order Information

Housing Size (sq.)	Lamp Type	Catalog Number	Mountings (order separately)
16"	175W MH	FSM8417-(a)(b)	MA3 = 2" Adjustable Slip Fitter MA4 = Yoke Mount
	250W MH	FSM8425-(a)(b)	
	400W MH	FSM8440-(a)(b)	
	200W MH/PS	FSM8820-(a)(b)	
	250W MH/PS	FSM8825-(a)(b)	
	320W MH/PS	FSM8832-(a)(b)	
	350W MH/PS	FSM8835-(a)(b)	
	400W MH/PS	FSM8840-(a)(b)	
	250W HPS	FSM8525-(a)(b)	
	400W HPS	FSM8540-(a)(b)	

Sign Light Voltage, Options, and Accessories

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field Installed)
5 = 480V M = Multi-tap (tapped @ 277) M5 = 120 - 480V 400W MH only (tapped @ 480V)	Q = Quartz Standby (includes lamp) P = Photo Control - Specify Voltage in Suffix (a) (Twist + Lock receptacle & matching photocell supplied.) WT = White Housing BK = Black Housing Custom Colors Available; contact factory for pricing and delivery. <i>Fusing</i> (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V	WG-16 = Wire Guard for 16" housing BLS-16 = Backlight Shield for 16" housing (not shown) VS-16 = Vandal Shield for 16" housing

Example

FMS	8	8	32	M
Series	Mounting	Light Source	Wattage	Voltage
FMS = Sign Light	8 = No Mounting	8 = MH/PS	32 = 320W	M = Multi-tap

Mountings and Accessories



2" Adjustable Slip Fitter
Ordering Code MA3



Yoke Mount
Ordering Code MA4



Wire Guard
Ordering Code WG-16



Vandal Shield
Ordering Code VS-16

R-CAD™ 800 Series
Prismatic Refractor

The R-CAD™ Series Prismatic Refractor is designed to increase light levels by upgrading all mogul-based, high bay fixtures, especially those currently using metal reflectors. Units deliver 20% higher light levels with a smooth and even light distribution, making them ideal for retail stores, gymnasiums, distribution centers, manufacturing centers and aisleways.



Features

Refractor

The clear acrylic prismatic refractor provides over 90% efficiency, with approximately 15 - 20% uplight. Flat and conical drop type lens enclosures are available. The Series 822 and 825 units are optionally available in a totally enclosed design.

Optics

Optics are available in 16", 22" and 25". The socket position is available in a non-adjustable (NA) mode or fully adjustable mode using the patented Twist-N-Lock™ system that allows for a choice of light distribution patterns. With its 15 - 20% uplight capability, the visual brightness of most areas is greatly increased while shadows virtually disappear.

R-CAD™ SDC Series
Faceted Reflector

The R-CAD™ SDC Series Faceted Reflector is designed to increase light levels by 20 to 25% by replacing deteriorated aluminum reflectors of existing fixtures with a hard anodized faceted aluminum high-efficiency designed reflector. An effective and low cost lighting upgrade, the R-CAD™ SDC Series is ideal for retail stores, gymnasiums, manufacturing centers and warehouse areas.



Features

Reflector

Available in 17" and 22", the R-CAD™ SDC faceted reflector is glass-lined to resist dirt build-up and simplify cleaning with just water. A glass lens and a dust-tight design are available. A totally enclosed design is available when using either the SDC-17 Glass or SDC-22 Glass options.

Optics

Optics are available in 17" and 22". The socket position is available in a non-adjustable (NA) mode or fully adjustable mode using the patented Twist-N-Lock™ system (see photo) that allows for a choice of light distribution patterns. With the wide spread beam pattern (1.7 space to mounting height ratio) and reduced glare faceted reflector, the R-CAD™ delivers light over a wide area with minimized fixture visibility.

Mounting Options

The patented C40 and C41 screw-in adaptor makes retrofitting a snap. No mounting hardware is required. Simply remove the existing reflector and screw-in the RCAD™ to the mogul-based socket.

R-CAD™ EB Series
Spun Aluminum Reflector

The R-CAD™ EB Series is designed to increase light levels by 20 to 25% by replacing deteriorated reflectors of existing fixtures with an aluminum reflector that provides a smooth, even beam pattern with an 80% efficiency rate. An effective and low cost lighting upgrade, the R-CAD™ EB Series are ideal for retail stores, gymnasiums, manufacturing centers and warehouse areas.



Features

Reflector

The R-CAD™ EB Series is a spun aluminum reflector with a glass lens option.

Optics

Optics are available in 14", 16" and 22". The socket position is available in a non-adjustable (NA) mode or fully adjustable mode using the patented Twist-N-Lock™ system (see photo) that allows for a choice of light distribution patterns.

Mounting Options

The patented C40 and C41 makes retrofitting a snap. No mounting hardware is required. The compact size of the R-CAD™ Series allows installation in most cases without the necessity of removing the existing reflector. If necessary, simply remove the existing reflector and screw the R-CAD™ into the mogul-based socket.

Please contact the factory for further technical information.

R-CAD™ 800 Series
Prismatic Refractor

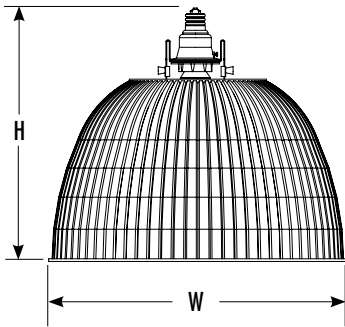
R-CAD™ SDC Series
Faceted Reflector

R-CAD™ EB Series
Spun Aluminum Reflector

Dimensions

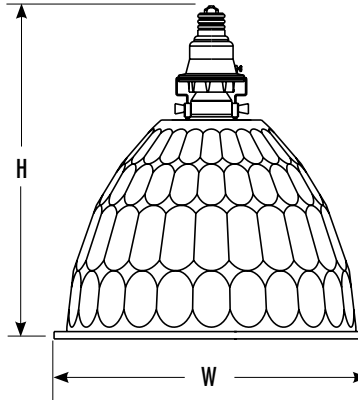
	Fixture Height		Fixture Width	w/ Drop Lens - Add
	Min. ¹	Max. ²		
816 Series	14.8"	18.4"	16"	3.5" TO H
822 Series	17.4"	21.0"	22"	3.0" TO H
825 Series	18.0"	21.6"	25"	3.0" TO H

¹ Lowest Socket Position
² Highest Socket Position



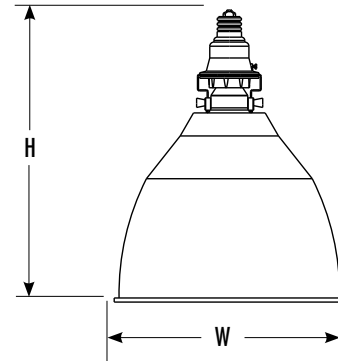
	Fixture Height		Fixture Width	Approx. Ship Wt.
	Min. ¹	Max. ²		
SDC17 Series	17.75"	18.75"	17"	2 lbs.
SDC22 Series	17.75"	18.75"	22"	2 lbs.

¹ Lowest Socket Position
² Highest Socket Position



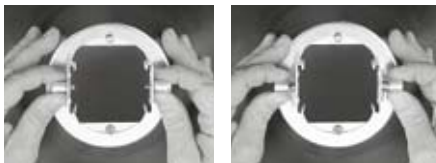
	Fixture Height		Fixture Width	Approx. Ship Wt.
	Min. ¹	Max. ²		
EB14 Series	17.25"	18.25"	14"	2 lbs.
EB16 Series	17.55"	18.55"	16"	2 lbs.
EB22 Series	19.5"	20.5"	22"	2 lbs.

¹ Lowest Socket Position
² Highest Socket Position



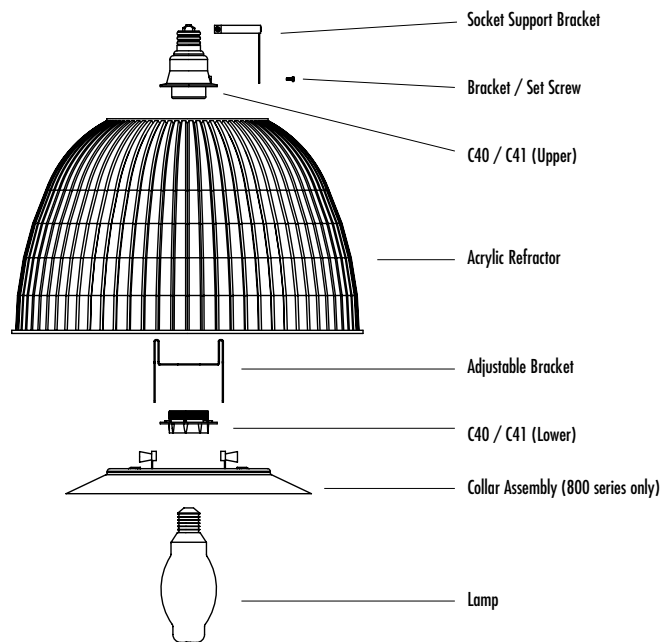
C41 Socket Adaptor

A standard socket accepts both open- and enclosed-rated lamps. Our patented C41 adaptor restricts existing fixtures to operate with open-rated lamps only. This feature eliminates the danger associated with improper lamp usage or violent end-of-life lamp risks. (Option V)



Twist-N-Lok™ - Locked

Twist-N-Lok™ - Open



Typical installation of R-CAD series reflectors

Please contact the factory for further technical information.

R-CAD™ 816, 822 & 825 Series Order Information

Refractor Size	Lamp Wattage	Catalog Number	Lamp NOT Included
16"	175-400W*	RCAD816-(a)	with adjustable bracket
	175-400W**	RCAD816NA-(a)	without adjustable bracket
22"	250-400W*	RCAD822-(a)	with adjustable bracket
	250-400W*	RCAD822NA-(a)	without adjustable bracket
25"	250-1000W* ††	RCAD825-(a)	with adjustable bracket
	250-1000W* ††	RCAD825NA-(a)	without adjustable bracket

* Enclosed Rated Lamps require a bottom lens + Do Not Enclose Over 250W

†† Do Not Enclose Over 400W, 1000W Open Bottom Only & 25°C Ambient Maximum

Options (a)	Accessories (Field Installed)
V = C41 Adaptor for Restricted Lamps G = Enclosed & Dust-Tight (22" & 25" Only 400W Max)	<u>16" Accessories</u> 816WG-R = 16" wrap-around wire guard assembly 816FLA = Flat acrylic lens for 816 with ring (250 watt maximum) (not shown) 816DLA = Drop lens with ring (250 watt maximum) 816CLA = Conical lens with ring (250 watt maximum) <u>22" Accessories</u> 822WG = 22" Wire guard, with relamping door 822FLA-HR = Flat acrylic for 822 with ring (400 watt maximum) (not shown) 822DLA-HR = Drop lens for 822 with ring (400 watt maximum) 822CLA-HR = Conical lens with ring (400 watt maximum) <u>25" Accessories</u> 825S-CLA = Inverted conical lens with ring (400 watt maximum) (not shown) 825A-CLA = Aislelighter lens with ring (RCAD825 up to 400W only) (not shown)

R-CAD™ SDC17 & SDC22 Series Order Information

Refractor Size	Lamp Wattage	Catalog Number	Lamp NOT Included
17"	175-400W*	RCADSDC17-(a)	Faceted reflector w/ C40 screw-in conversion adaptor
	175-400W*	RCADSDC17NA-(a)	Faceted reflector (Non-adjustable)
22"	320-1000W**	RCADSDC22-(a)	Faceted reflector w/C40 screw-in conversion adaptor
	320-1000W**	RCADSDC22NA-(a)	Faceted reflector (Non-adjustable)

Options (a)	Accessories (Field Installed)
V = C41 Adaptor for Restricted Lamps G = Enclosed & Dust-Tight (22" & 25" Only 400W Max)	<u>17" Accessories</u> SDC17LA = Flat Glass Lens - 17" SDC17LA / SDC17DG = Guard for SDC17 (lens assembly required) SDC17WG = Wrap guard for SDC17 <u>22" Accessories</u> SDC22LA = Flat Glass Lens - 22" SDC22LA / EB22DG = Guard for SDC22 (lens assembly required) EB22WG = Wrap guard for SDC22

R-CAD™ EB Series Order Information

Refractor Size	Lamp Wattage	Catalog Number	Lamp NOT Included
14"	175-400W*	RCADEB14-(a)	Faceted reflector w/ C40 screw-in conversion adaptor
	175-400W*	RCADEB14NA-(a)	Faceted reflector (Non-adjustable)
16"	175-450W*	RCADEB16-(a)	Faceted reflector w/C40 screw-in conversion adaptor
	175-450W*	RCADEB16NA-(a)	Faceted reflector (Non-adjustable)
22"	400-1000W*	RCADEB22-(a)	Faceted reflector (Non-adjustable)
	400-1000W*	RCADEB22NA-(a)	

Options (a)	Accessories (Field Installed)
V = C41 Adaptor for Restricted Lamps G = Enclosed & Dust-Tight (22" & 25" Only 400W Max)	<u>14" Accessories</u> EB14G-HR = Wire Guard for RCAD EB14 (with ring) EB14LA-HR = Glass Lens for RCAD EB14 <u>16" Accessories</u> EB16WG = Wire Guard for RCAD EB16 EB16LA = Glass Lens for RCAD EB16 <u>22" Accessories</u> EB22DG-R = Wire Guard for RCAD EB22 (with ring) EB22GLA = Glass Lens for RCAD EB22

*Enclosed Rated Lamps Require Bottom Lens + Enclosed 1000W Must use Reduced Jacketed (BT37) Lamp with Glass lens accessory

See page 188 for complete listing of lens assemblies and guard options.

Coated Lamps Recommended; Metal Halide and Pulse Start Open Rated Lamps (using V-Option) are Available.

Refer to page 178 for Ambient Temperature Rating.

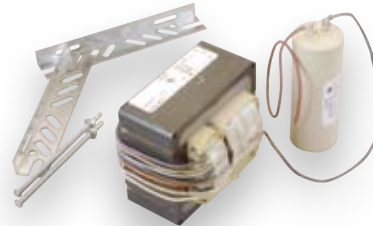
RETROFIT
Save Money • Save Energy



Simkar offers a range of products intended to upgrade or replace your current technology with the goals of ease of installation, cost efficiency, and energy savings.

HID Lamp/Ballast Kits

- Complete kit ensures compatible lamp and ballast.
- Ergonomic carrying handles.
- Stackable outer carton fits into compact areas for better space management and easy transporting.
- Pre-wired capacitor and ignitor (if necessary) eliminate common wiring errors.
- High quality long-life HID lamp.
- Durable steel mounting brackets fit many mounting configurations.
- Color coded for quick lamp source identification.
- UL recognized components.



Lamp and Ballast Kit Order Information

Series	Light Source	Option	Wattage		Special Requirement	Voltage	Pulse Start
RK	M = Metal Halide S = High Pressure Sodium H = Mercury Vapor	RCADEB14-(a)	35 = 35W	320 = 320W	Magul Base (standard) MED = Medium Base SX = High Output SXH = High Output Horizontal Burn Reduced Jacketed Lamp, consult factory.	120 = 120V	PS = Pulse Start (only available on RKM)
			50 = 50W	350 = 350W		277 = 277V	
			70 = 70W	400 = 400W		480 = 480V	
			100 = 100W	450 = 450W		M = 120/208/240/277 Volt	
			150 = 150W	750 = 750W		M5 = 120/208/240/277/480 Volt	
			175 = 175W	875 = 875W			
			200 = 200W	1000 = 1000W			
			250 = 250W	1500 = 1500W			
			300 = 300W				

For our complete Lamp/Ballast Kit offering, please contact your Simkar representative.

Lamp not included



The RC Series is ideal for use with the JLC remote shade assemblies or any RSA Optical assembly.

Features

Housing

The anodized, extruded aluminum housing is designed with heat dissipating fins and is environmentally sealed. UL listed for damp locations. UL listed for wet locations must be special ordered.

Ballast

- 175 - 1000W metal halide
- 50 - 450W Pulse Start metal halide
- 35 - 400W high-pressure sodium

Wiring

Two 3/4" holes are provided at one end of the ballast enclosure for wiring. When water-tight connections are used, the ballast enclosure is UL listed for wet locations.

Mounting Options

A notched heavy gauge aluminum strap is attached to the back of all enclosures to aid installation on vertical surfaces.

Metal Halide Distance	Gauge*
Up to 50 ft.	16
50 to 100 ft.	14
100 to 200 ft.	12
200 to 300 ft.	10

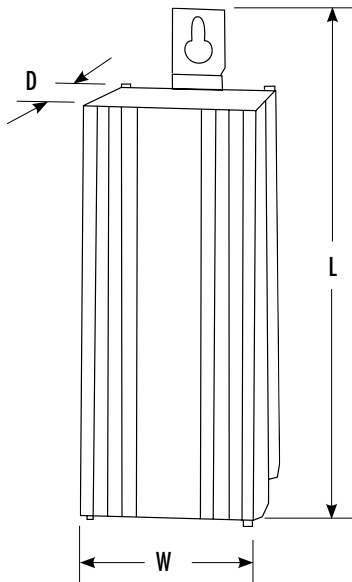
**Recommended wire gauge to remote lamp*



Listed for Damp and Wet Locations
Contact Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
9" RC Series				
35W-150W	9"	6.5"	5"	20 lbs.
11" RC Series				
50W-175W	11"	6.5"	5"	25 lbs.
14" RC Series				
250W-1000W	14"	6.5"	5"	30 lbs.



Remote Ballast Enclosure Order Information

Lamp Type	Ordering Code	Watts	Volts	Max Btl Distance	Housing Size
Metal Halide					
	RCMX17M*(b)	175	MT	*	11"
	RCMX175*(b)	175	480	*	11"
	RCMX25M*(b)	250	MT	*	14"
	RCMX255*(b)	250	480	*	14"
	RCMX40M*(b)	400	MT	*	14"
	RCMX405*(b)	400	480	*	14"
	RCMX99M*(b)	1000	MT	*	14"
	RCMX995*(b)	1000	480	*	14"
Pulse Start Metal Halide					
	RCPX05M*(b)	50	MT	50'	11"
	RCPX07M*(b)	70	MT	50'	11"
	RCPX10M*(b)	100	MT	50'	11"
	RCPX15M*(b)	150	MT	50'	11"
	RCPX17M*(b)	175	MT	10'	11"
	RCPX20M*(b)	200	MT	10'	11"
	RCPX205*(b)	200	480	10'	11"
	RCPX25M*(b)	250	MT	10'	14"
	RCPX255*(b)	250	480	10'	14"
	RCPX32M*(b)	320	MT	15'	14"
	RCPX325*(b)	320	480	10'	14"
	RCPX35M*(b)	350	MT	15'	14"
	RCPX355*(b)	350	480	15'	14"
	RCPX40M*(b)	400	MT	15'	14"
	RCPX405*(b)	400	480	15'	14"
	RCPX45M*(b)	450	MT	15'	14"
	RCPX455*(b)	450	480	15'	14"
High Pressure Sodium					
	RCSX031*(b)	35	120	10'	9"
	RCSX051*(b)	50	120	10'	9"
	RCSX05M*(b)	50	MT	10'	11"
	RCSX071*(b)	70	120	10'	9"
	RCSX07M*(b)	70	MT	10'	11"
	RCSX101*(b)	100	120	10'	9"
	RCSX10M*(b)	100	MT	10'	11"
	RCSX151*(b)	150	120	10'	9"
	RCSX15M*(b)	150	MT	10'	11"
	RCSX25M*(b)	250	MT	25'	14"
	RCSX255*(b)	250	480	25'	14"
	RCSX40M*(b)	400	MT	25'	14"
	RCSX405*(b)	400	480	25'	14"

*See Voltage below

Remote Ballast Enclosure Voltages, and Options

Voltage	Accessories (Field Installed)
1 = 120V	P = Twist + Lock Plug (change M to desired voltage on Multi-Tap) W = Wet location HPF = High Power Factor (x)(x) = Power/Lamp Cord (specify length in feet)
2 = 277V	
3 = 208V	
4 = 240V	
5 = 480V	
tapped @ 480V	
M = Multi-Tap	
tapped @ 277V	

See page 286 for complete listing of lens assemblies and guard options.

*Enclosed Rated Lamps Require Bottom Lens

Lamp not included



The **RJ Series** is ideal for use where heat is a problem and ballast must be operated separately from the light source. (See chart for maximum distance.)

Features

Housing

Heavy-duty cast aluminum housing features heat-dissipating fins. Available in two sizes.

Ballast

- 175 - 1000W metal halide
- 50 - 450W Pulse Start metal halide
- 35 - 1000W high-pressure sodium

Wiring

Ballasts can be supplied with a 3/16 SOW 105° C cord to any specified length.

Optics

RJ Series must be used with an RSA optical assembly adaptor to operate with all high bay and low bay shades. See page 287 for more information. For use with the mini high bay shade (JLC), see page 286.

Mounting Options

A hook, cord and plug or pendant mount is available for remote mounting from optical assembly. Also works with JLC Remote Shade Assemblies (see page 286 for available wattages in JLC Remote Shade Assemblies)



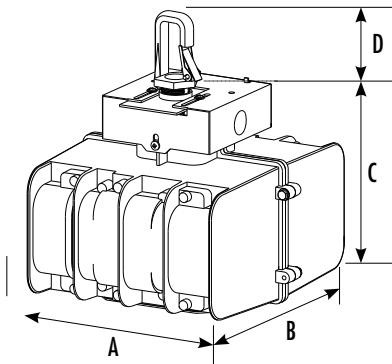
55 °C, 65 °C Ambient Rated
Recognized for Damp Locations
Contact Factory for CUL Availability

Metal Halide Distance	Gauge*
Up to 50 ft.	16
50 to 100 ft.	14
100 to 200 ft.	12
200 to 300 ft.	10

**Recommended wire gauge to remote lamp*

Dimensions

	A	B	C	D	Approx. Ship Wt.
Z M Series	8.5"	9.3"	7.5"	3"	15 lbs.
RJL Series	10.0"	13.2"	7.5"	3"	25 lbs.



For Remote Shade Assemblies, see page 286.



RSA Mogul
Socket Assembly
(To be used with
remote ballast)

Remote Ballast Enclosure Order Information

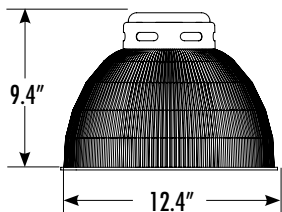
Lamp Type	Ordering Code	Watts	Volts	Max Btl Distance	Housing Size
Metal Halide					
	RJMM17M*(b)	175	MT	*	MED
	RJMM175*(b)	175	480	*	MED
	RJMM25M*(b)	250	MT	*	MED
	RJMM255*(b)	250	480	*	MED
	RJMM40M*(b)	400	MT	*	MED
	RJMM405*(b)	400	480	*	MED
	RJLM99M*(b)	1000	MT	*	LARGE
	RJLM995*(b)	1000	480	*	LARGE
Pulse Start Metal Halide					
	RJMP05M*(b)	50	MT	50'	MED
	RJMP07M*(b)	70	MT	50'	MED
	RJMP10M*(b)	100	MT	50'	MED
	RJMP15M*(b)	150	MT	50'	MED
	RJMP17M*(b)	175	MT	10'	MED
	RJMP20M*(b)	200	MT	10'	MED
	RJMP205*(b)	200	480	10'	MED
	RJMP25M*(b)	250	MT	10'	MED
	RJMP255*(b)	250	480	10'	MED
	RJMP32M*(b)	320	MT	15'	MED
	RJMP325*(b)	320	480	10'	MED
	RJMP35M*(b)	350	MT	15'	MED
	RJMP355*(b)	350	480	15'	MED
	RJMP40M*(b)	400	MT	15'	MED
	RJMP405*(b)	400	480	15'	MED
	RJMP45M*(b)	450	MT	15'	MED
	RJMP455*(b)	450	480	15'	MED
High Pressure Sodium					
	RJMS031*(b)	35	120	10'	MED
	RJMS051*(b)	50	120	10'	MED
	RJMS05M*(b)	50	MT	10'	MED
	RJMS071*(b)	70	120	10'	MED
	RJMS07M*(b)	70	MT	10'	MED
	RJMS101*(b)	100	120	10'	MED
	RJMS10M*(b)	100	MT	10'	MED
	RJMS151*(b)	150	120	10'	MED
	RJMS15M*(b)	150	MT	10'	MED
	RJMS25M*(b)	250	MT	25'	MED
	RJMS255*(b)	250	480	25'	MED
	RJMS40M*(b)	400	MT	25'	MED
	RJMS405*(b)	400	480	25'	MED
	RJLS99M*(b)	1000	MT	10'	LARGE
	RJLS995*(b)	1000	480	10'	LARGE

* See Voltage Below

Remote Ballast Enclosure Voltages, and Options

Voltages	Option (b) (Factory Installed)
1 = 120V 2 = 277V 3 = 208V 4 = 240V 5 = 480V M = Multi-Tap tapped @ 277V	Fusing (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V P = Twist + Lock Plug (change M to desired voltage on Multi-Tap) Q = Quartz Standby HPF = High Power Factor (120V HPS reactor only) (x)(x) = Power/Lamp Cord (specify length in feet after options)

RSA Acrylic Prismatic JLC-RSA

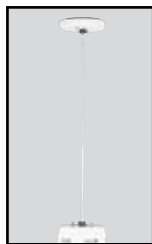


Recognized for Damp Locations
Contact Factory for CUL Availability

Mounting Options

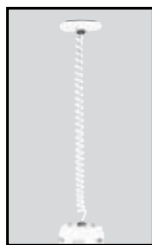
Cord Pendant Mount

Ordering Code: **CP**



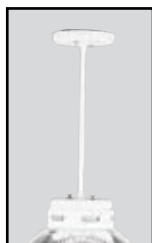
Spiral Cord Pendant Mount

Ordering Code: **CS**



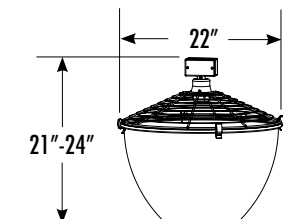
Rigid Pendant Mount

Ordering Code: **RP**



RSA-5-ND22W

The RSA-5-ND22W is supplied with a 22" diameter white reflector that attaches to the mounting wire guard with four stainless steel clips and a hinge. The wire guard is designed to prevent tennis balls from resting on top of fixture. The assembly has a 3/4" NPT thread on the junction box for mounting to a conduit or standard hook. The assembly is to be used with a mogul base HID lamp in the base up position. Do not use with BT-28 size lamps. The RSA5-5-ND22W must be used in conjunction with either the RJ or RC Series remote ballast.



JLC Shade Assemblies are for use with the RJ Series Remote Ballast J-Pod. See page 284.

JLC Shade Assemblies are mounted to junction box in ceiling.

RS Order Information

Shade Size	Shade Type	Catalog Number
12"	Acrylic Prismatic	JLC-(a)(b)0xx(c)

Source (a)	Mounting (b) (Factory Installed)	Pendant Mount Length	Options (c)
2 = Open Rated MH (Max 175W) 5 = HPS (Max 150W) 8 = Enclosed Rated MH/PS (Max 100W) 9 = Open Rated MH/PS (Max 150W)	CP = Cord Pendant Mount CS = Spiral Cord Pendant Mount C = Spiral Cord Pendant Mount RP = Rigid Pendant Mount SP = Swivel Pendant Mount	<u>Pendant Mount Lengths</u> 0(xx) = xx" (please order in increments of 6" up to 60") Examples: 018 = 18" 024 = 24"	<u>Lens</u> L = Flat Acrylic Lens (100W max) K = Conical Lens (100W max) D = Drop Lens (100W max) - = No Lens (Only for HPS, Open Rated MH & Open Rated MH/PS) Q = Quartz Standby (175W only) <u>Color (White is standard)</u> BK = Black

Indirect Lighting Order Information

Shade Size	Shade Type	Catalog Number
22"	Spun Aluminum Painted White Reflector	RSA-5-ND22W

Note: The RSA5-5-ND22W cannot be used with either the RJ or RC Series remote ballast. Shade is designed to prevent tennis balls from being trapped on fixture top.

Indirect Lighting Options

Options (a)

Q = Quartz Standby



RSA Indirect Lighting
RSA-5-ND22W

Remote Shade Assembly Order Information

Shade Size	Shade Type	Catalog Numbers		
		RSA3	RSA4	RSA5
14"	Spun Aluminum Reflector	RSA3(a)-(b)EB14	RSA4(a)-(b)EB14	
16"	Spun Aluminum Reflector	RSA3(a)-(b)EB16	RSA4(a)-(b)EB16	
22"	Spun Aluminum Reflector	RSA3(a)-(b)EB22	RSA4(a)-(b)EB22	RSA5(a)-(b)EB22
17"	Faceted Aluminum Reflector	RSA3(a)-(b)SDC17	RSA4(a)-(b)SDC17	
22"	Faceted Aluminum Reflector	RSA3(a)-(b)SDC22	RSA4(a)-(b)SDC22	RSA5(a)-(b)SDC22
16"	Acrylic Refractor	RSA3(a)-(b)816	RSA4(a)-(b)816	
22"	Acrylic Refractor	RSA3(a)-(b)822	RSA4(a)-(b)822	
25"	Acrylic Refractor	RSA3(a)-(b)825	RSA4(a)-(b)825	

Note: Mogul base only. Shade included. Lamp not included. Some lamps require bottom lens or open rated socket (V).

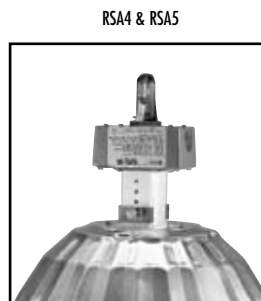
Options (a) (Factory Installed)	Options (b) (Factory Installed)
V = Open Rated Socket	XX = Lamp Cord (05 feet standard)
G = Totally Enclosed and Dust-Tight (Not Available in 14" Spun Aluminum or 16" Acrylic)	(specify extra length - feet for XX)
Q = Quartz Standby (Not Available with RSA3)	
NA = Non Adjustable	



RSA3

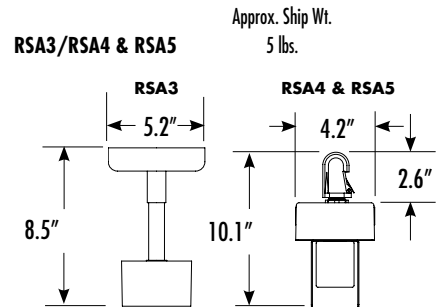


RSA3NA



RSA4 & RSA5

Dimensions



Approx. Ship Wt.
5 lbs.



RSA-EB Series
Spun Aluminum Reflector
RSA-EB14, RSA-EB16 & RSA-EB22

RSA-SDC Series
Faceted Aluminum Reflector
RSA-SDC17 & RSA-SDC22



RSA-Acrylic Refractor
RSA-816, RSA-822 & RSA-825

Low Bay Order Information

Shade Size	Shade Type	Catalog Numbers	
16"	Spun Aluminum Low Bay Reflector	RSA3	RSA4
		RSA3(a)-(b)LB16W	RSA4(a)-(b)LB16W
		RSA3(a)-(b)LB22W	RSA4(a)-(b)LB22W
30"	Spun Aluminum Low Bay Reflector	RSA3(a)-(b)LB30W	RSA4(a)-(b)LB30W

Note: Mogul base only. Shade included. Lamp not included.

Options (a) (Factory Installed)	Options (b) (Factory Installed)
G = Totally Enclosed and Dust-Tight	XX = Lamp Cord (05 feet standard)
	(specify extra length - feet for XX)



RSA-LB Series
Low Bay Shade
RSA-LB16W, RSA-LB22W & RSA-LB30W

Remote Shade Assembly

Available with eleven different reflector options. The RSA3 attaches to a standard ceiling mounted 4" octagon junction box. The RSA4 and RSA5 come standard with the reflector, junction box, mounting hook with safety spring clip and five feet of SOW 16/3 cord.

RSA3: 400W Max
RSA4: 450W Max
RSA5: 750 & 1000W

Optical

Adapts to all high bay and low bay reflector assemblies including all optical accessories.

Ballast

The remote magnetic extruded aluminum and magnetic cast aluminum housing are available.



ENERGY SOLUTIONS



The **e** a symbol of Simkar's commitment to the highest standards in fixture design, manufacturing, energy efficiency, and the environment. Our ability to engineer systems that combine lamp, ballast,



Simkar is proud to offer fixtures that comply to the HPT8 program.

The HPT8 program was initiated by the Consortium for Energy Efficiency, a national group of utilities, energy conscious organizations, and educational programs to identify and promote High Performance T8 products and encourage their use through education, rebates, and legislation. Because of their improved energy efficiency, HPT8 systems are required to be eligible for certain rebate programs.

An HPT8 ballast must have a power factor greater than or equal to 0.9, a THD less than 20% and operate at a frequency between 20 and 33 kHz or greater than 40 kHz. HPT8 ballasts are available in three levels: Low BF (less than or equal to .85), normal BF (greater than .85 but less than or equal to 1.0) and high (greater than or equal to 1.01). Ballasts are available in programmed and instant start. Ballast factor may have a determination on rebate qualification. HPT8 qualified ballasts are also available in 25W and 28W energy saving versions.

For lamps, High Performance is defined as a 32 Watt, 3100 + lumen lamp that has a life of 24,000* hours and 94% lumen maintenance, and Color rendering greater than 81. For lamps with a color temperature greater than 45K, 2950 initial lumens is acceptable.

HPT8 systems must have a ballast and lamp combination that delivers 90 or greater mean lumens per watt with instant start ballasts, or greater than 88 mean lumens per watt with programmed start ballasts.

Contact your local utility to determine if HPT8 products are required in your area.

* Based on program or rapid start. Life may be less with instant start ballasts.

and fixture technology to maximize energy savings makes us unique. We can produce fixtures that qualify for federal, state, and local rebate programs, generating an even faster ROI, increasing profitability, and protecting our environment.



ENERGY

Look for this logo – it designates products and services that provide energy-saving alternatives and are designed to help reduce your costs

ADJUST-A-BAY

PAGE 294

When you need true application flexibility, Adjust-a-Bay is the answer. Each fixture can become a narrow, medium, or wide light distribution fixture, perfect for an aisle, as a low bay, or as an effective energy-saving alternative to expensive high bays.

REFLECT-A-BAY

PAGE 296

A cost-effective, energy-efficient fixture with a variety of mounting options and lamp configurations. Its highly reflective surface and optimized lamp combinations maximize energy savings in warehouse, manufacturing, retail, and institutional installations.

MIRO® INDUSTRIAL

PAGE 298

One to three lamp and tandem configurations, with a highly reflective MIRO® 4 reflector, deliver outstanding performance and energy savings.

Z POD

PAGE 300

When a metal halide high bay is the best solution, our proven pulse start electronic ballasted Z-Pod system provides the best energy-smart, cost-saving solution. Available with 11 optical systems and dimming control.

EXITS

PAGE 302

A wide range of LED exit signs provide increased energy efficiency, reliability, and performance for virtually any application.

SENSORS

PAGE 303

To maximize control, performance, and energy efficiency, SIMKAR offers a wide range of advanced motion and light-sensing technology.

LAMP/BALLAST KITS

PAGE 303

Don't just replace - UPGRADE. These kits bring new efficiency to your existing fixtures.

MIRO® is a registered trademark of ALANOD

Call 800.523.3602 • Fax 215.831.7703 • www.simkar.com

SELECTING THE RIGHT ENERGY SAVING FIXTURE IS AS EASY AS 1-2-3.

1 Determine your mounting height: < 25' = Low-Bay > 25' = High-bay



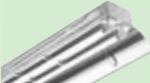
2 Choose your lamp equivalent:

Mean Lumen Comparison Chart

Metal Halide Wattage	MH Mean Lumens	2 F32T8	3 F32T8	4 F32T8	6 F32T8	4 F28T5	6 F28T5	4 F54T5HO	6 F54T5HO
150	7900	5320	7980						
175	8400		7980	10640		11600			
250	11500			10640	15960	11600	16500		
400	22300							19000	28500
Fluorescent Wattage		64	96	128	192	112	168	216	324

The wattages above are lamp only and do not take into consideration significant potential metal halide ballast losses. Fixture efficiency and distribution may also have a significant effect on light levels.

3 Choose your SIMKAR Fixture:

	LAMPS	LOW BAY: <25'	HIGH BAY: >25'
 ADJUST-A-BAY 3 different distributions (high bay, low bay, aisle bay) from a single fixture with energy efficient T5HO or T8	4 6	WIDE / T5HO OR T8 MEDIUM / T5HO	NARROW / T5HO NARROW / T5HO
 REFLECT-A-BAY A high bay or low bay alternative with efficient combinations of T5HO or T8 lamps and electronic ballasts	4 6 8	T5HO OR T8 T5HO OR T8 T5HO OR T8	T5HO T5HO T5HO, T8
 MIRO INDUSTRIAL An industry standard in a highly efficient lighting and value. MIRO4 reflector delivers maximum efficiency	2 3 4 (TANDEM) 6 (TANDEM)	T5, T5HO OR T8 T5, T5HO OR T8 T5, T5HO OR T8 T5, T5HO OR T8	N/A T5, T5HO OR T8 T5, T5HO OR T8 T5, T5HO OR T8

The Fluorescent Advantage

Fluorescent lighting has become the replacement source of choice for interior warehouse and storage lighting for a number of reasons. These include:

Improved energy efficiency Typical mean lumens per watt (LPW) for Metal Halide is 53 – 56, for T8 and T5 fluorescent it is 83 to 103 mean LPW.

Better color rendering Typical metal halide lamps have a Color Rendering Index (CRI) of 65. T5 and T8 fluorescents have a typical CRI of 85+.

Constant color Metal halide lamps may shift color over time while fluorescent lamps retain their color properties throughout their life.

Short run-up time Conventional Metal Halide lamps require 4-6 minutes to get to full brightness. Fluorescent lamps reach

full brightness almost immediately.

Instant restrike After a momentary power interruption, Metal Halide lamps may take up to 11 minutes to restrike. Fluorescent lamps restrike immediately.

Safety Some Metal Halide lamps may have a non-passive end of life that could prove dangerous to people or goods in the vicinity. For that reason, it is recommended that Metal Halide fixtures be relamped at 80% rated life. Fluorescent lamps do not have "end-of-life" issues.

PERFORMANCE COMPARISON	T5	T5HO	T8
Initial Rated Light Output	2900 Lumens	5000 Lumens	2950 Lumens
Nominal Lamp Watts	28 watts	54 watts	32 watts
Initial Lamp Efficacy	104 lpw	93 lpw	92 lpw
Initial System Efficacy	89 lpw	85 lpw	80 lpw
Lumen Maintenance	97%	95%	90%
Maintained System Efficacy	86 lpw	81 lpw	72 lpw
Rated Life	30,000 hours	30,000 hours	20,000 hours
Optimum Operating Temperature	95°F	95°F	77°F

T5 lamps are available in five fluorescent color temperatures:

- Warm: 2700k
- Soft White: 3000k
- White: 3500k
- Cool: 4100k
- Natural: 5000k
- Daylight: 6500k

Color rendering index (CRI) is greater than 80 and average rated life is 30,000 hours based on 3 hours per start.

WHAT THE **e** MEANS TO YOU

The Energy Policy Act of 2005's long-range energy policy became effective January 1, 2006 with the U.S. government offering significant accelerated tax incentives as a reward for installing or retrofitting energy-efficient lighting. Since lighting represents up to 40% of the average commercial building's electrical costs, retrofitting with energy-efficient upgrades can reduce operating costs by 30 to 50%. Most importantly, EAct 2005 allows the capital investment to be depreciated in the first year.

EAct 2005 Qualifications NOW EXTENDED TO 2013

To qualify for the EAct 2005 tax deductions, a commercial building property must:

- Meet control/switching criteria
- Be located in the U.S. and fall within the scope of ASHRAE/IES Standard 90.1-2001; and
- Receive an upgrade/installation of:
 - (1) interior lighting system, or
 - (2) heating/cooling/ventilation/hot water systems, or
 - (3) building envelope that was put in service between Jan. 1, 2006 and Dec. 31, 2008.
- Be certified as being an "energy-efficient property," defined as one that has 50% reduction in the total annual energy and power costs of a building satisfying ASHRAE/IES Standard 90.1-2001

To receive the tax deduction, the deduction must:

- Not exceed the cost of the upgrade, including materials, labor and design; and
- Be taken in the taxable year the property or upgrade is placed in service (either 2006, 2007, or 2008); and
- Be calculated based on the square footage of the upgraded building.
 - Up to \$1.80/sq.ft. for "energy-efficient property"
 - Up to \$0.60/sq.ft. each for interior lighting, HVAC/hot water and building envelope.

To claim the tax deduction, you must be:

- The owner or entity who paid to have the commercial building constructed or renovated
- The party primarily responsible for designing the publicly owned property

EAct 2005 Claims

Before claiming the EAct 2005 tax deduction, you must:

- Have the plans and actual in-place construction reviewed by qualified, third-party inspectors; and
- Have energy savings determined by software certified by the Department of Energy as meeting criteria of consistency and accuracy; and
- Obtain a certification, as determined by the IRS, that the required energy savings will be achieved.

The qualified, third-party inspectors:

- Are not related (do not have an employer/employee relationship) to the taxpayer claiming the deduction; and
- Are engineers or contractors who are properly licensed as professional engineers or contractors in the jurisdiction in which the building is located; and
- Represent in writing to the taxpayer that they have the requisite qualifications to provide the certification required and/or to perform the inspection required.

Types of tax deductions you can claim:

Whole Tax Deduction

One-time deduction up to \$1.80/sq.ft. if ASHRAE/IES Standard 90.1-2001 is exceeded by 50%

Partial Tax Deduction

- Not all systems achieve 50% improvement over ASHRAE/IES Standard 90.1-2001
- It is possible to upgrade only portions of a building to higher efficiency lighting, with the deduction based on upgraded space square footage
- One-time deduction of \$0.30 to \$0.60/sq.ft. for lighting with 25-40% improvement over ASHRAE/IES Standard 90.1-2001

State tax deductions

- There may be additional tax deductions available.



Simkar will assist you in providing economic analysis, point-by-point layout capabilities, and application expertise to help you provide the best lighting job while reducing energy consumption

INFORMATION YOU'LL NEED TO GATHER

First, talk with your accountant or energy services specialist. Then determine:

- Average footcandles needed in work areas
- Number of watts needed
- Hours of operation
- Mounting height
- Square footage
- Average ambient temperature

SIMKAR can help you complete the information needed above and is ready to help you find solutions to save money.

ENERGY REGULATIONS

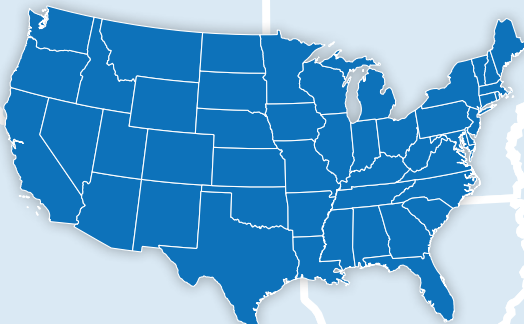
As of January 2007, more than 60% of U.S. states have energy codes that were written since 2003. These new codes set strict limits on the Lighting Power Density (LPD, measured in watts per square foot) allowed and the use of controls. The most restrictive state energy code has a 1.0 W/ft² requirement for offices.

TITLE 24

Title 24, Part 6, California Code of Regulations:

California's Energy Efficiency Standards for Residential and Nonresidential Buildings

The Energy Efficiency Standards for Residential and Nonresidential Buildings were established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. California's building efficiency standards (along with those for energy efficient appliances) have saved more than \$56 billion in electricity and natural gas costs since 1978. It is estimated the standards will save an additional \$23 billion by 2013.



Energy information, regulations, and programs are dynamic. Visit www.simkar.com/energy for the latest news and information.

TAX DEDUCTIONS AND REBATES

The Energy Policy Act (EPAc) of 2005 provides tax deductions for energy savings in lighting. By exceeding ASHRAE 90.1, 2001, energy standards, you can earn up to \$.60 per square foot in tax deductions. For EPAc the most restrictive requirement is 1.3 W/ft² for offices.

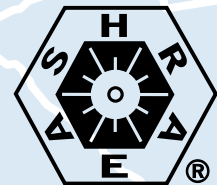
Additional rebates for energy savings fixtures are also available in several states and utilities. Some utilities require the use of High Performance T8 (HPT8) systems for rebates. These fixtures require lamps and ballasts listed by CEE (Consortium for Energy Efficiency). These can help to offset the cost of installation even further.

ASHRAE

ASHRAE STANDARD 90.1-2001 / AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS

ASHRAE/IES Standard 90.1-2001 features extensive power limits based on square footage of illuminated area or perimeter. Standard 90.1-2001's Section 9 details mandatory provisions related to lighting controls, tandem wiring and exit signs.

Although lighting controls such as occupancy sensors do not contribute to the lighting power density savings needed to qualify for the Commercial Buildings Deduction, they are required as indicated in ASHRAE/IES Standard 90.1-2001.



ASHRAE/IES Standard 90.1-2001 provisions include automatic shut-off, space controls, exterior lighting controls and additional controls for specialized lighting or applications. Wall switches and ceiling-mounted occupancy sensors are convenient, cost-effective solutions that meet these provisions while providing energy savings and quick payback to end users.

Simkar's revolutionary Adjust-a-Bay™, the only adjustable fluorescent bay lighter, is designed to replace conventional metal halide, mercury, and older fluorescent lighting systems in industrial, educational, and retail

applications. Our patent-pending Adjust-a-Bay combines the proven energy efficiencies of T5 or T8 linear fluorescent lamps with the precise, adjustable lighting control formerly available only on HID fixtures. The Adjust-a-Bay's unique adjustable

optics offer multiple user-selectable beam patterns that can be optimized for a variety of applications. The result is a fluorescent bay lighter that outperforms all others in versatility, operation, and energy efficiency.

Adjust to your application and achieve desired light levels using fewer fixtures

3 field-adjustable user-selectable beam patterns: narrow, medium, wide

An aisle lighter, a high bay, a low bay, all in one



FEATURES	BENEFITS
3 beam patterns	Puts the light where you need it
95% reflective MIRO 4 aluminum reflectors	Maximum light output with less glare and superior control
Efficient electronic ballast with T5 or T8 lamp configurations	Produces up to 104 maintained lumens per watt
Adjustable Reflectors	Improved horizontal & vertical illumination
95% lumen maintenance	Maintains constant light level
Optional uplight	Reduces "cave effect"
Instant On	No waiting for light to get to full brightness Compatible with motion sensors and photo cells Instant restrike after power interruption
Low Harmonic Distortion	<10%



Adjust-a-Bay Ordering Information

Series	# Lamps	Lamp Type	Aperture	Options	Ballast
ADJUST	4 6	28 = 28W 48" T5 54 = 54W 48" T5HO 32 = 32W 48" T8	Solid reflector is standard A = Aperture; uplight ranges from 7% to 12%	ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)	B11 = Electronic T8 B11HP(x) = HPT8* B11VHO = T8 Very High Output B12 = T5

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Ballast Options	Switching	Voltage	Options
HBF = High Ballast Factor HT = High Temperature (Not available with HBF) PS = Program Start (Recommended for use with occupancy sensor)	For 4 lamp units 4L = (1) 4-lamp ballast (standard) 2/2L = (2) 2-lamp ballasts For 6 lamp units Blank = (1) 4-lamp ballast and (1) 2-lamp ballast (standard) 2/3L = (2) 3-lamp ballasts	UNV = 120-277V U34 = 347-480V 347 = 347V 480 = 480V	OS(x) = Occupancy Sensor (specify # of lamps controlled - 2, 4, 6 or 8) OSI(x) = Occupancy Sensor; factory-installed (specify # of lamps controlled - 2, 4, 6 or 8) OSDL(x) = Daylight Sensor (specify # of lamps controlled - 2, 4, 6 or 8) FB* = Fast blow fuse SB* = Slow blow fuse BP = Bulk Pack 6' Cord and Plug CPT(x) 1 = 120V 2 = 277V 3 = 208V 4 = 340V 5 = 480V CP3 = Cord & Plug - 120V Straight Blade 5-15P

Mounting	Accessories
CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24" PM(x) = Twin Pendant Mount - 2 white stem kits - specify length (24", 36", 48", 60", 72") SN = Snapper Bracket - 1-3/4" for surface mounting or twist and lock onto T-Bar (order 2) HKSC = Hook & Chain Assembly - Monopoint mount to four point suspension. (Includes hook, chain, and mounting plate) CAB72 = Adjustable Cables - includes (4) 6-foot steel aircraft cables, toolless adjusters and mounting hardware.	AWG4 = 4 Lamp Heavy-Duty Wire Guard AWG6 = 6 Lamp Heavy-Duty Wire Guard AWG4T = 4 Lamp Heavy-Duty Wire Guard - Top (Recommended for gym applications) AWG6T = 6 lamp heavy-duty wire guard - Top (Recommended for gym applications) ADJ4 = 4 Light acrylic Lens (Lift And Shift) ADJ6 = 6 Light acrylic Lens (Lift And Shift) WADJ4 = 4 Light acrylic Lens And Heavy Duty Wire Guard Combo WADJ6 = 6 Light acrylic Lens And Heavy Duty Wire Guard Combo

Save up to 50% in energy when used in place of traditional HID

PAYBACK

LAYOUT	Existing System	Proposed System
	400W standard MH	4-Light F54T5HO
Fixture mounting height	25'	25'
Lamp & fixture data		
Initial lamp lumens	36,000	5000
Number of lamps	1	4
Initial fixture lumens	36,000	20,000
Ballast factor	1	1
Initial fixture lumens (ballast corrected)	36,000	20,000
Lamp lumen depreciation	0.60	0.95
Luminaire dirt depreciation	0.85	0.85
Fixture efficiency	0.80	0.98
Maintained fixture lumens	14,688	15,825
Fixture watts	460	238
Fixture lumens/watt	35	67
CRI (color rendering index)	65	82
Avg. maintained footcandles	30	32
Operating Data		
Number of fixtures	100	100
Cost/kWh	\$0.10	\$0.10
Total wattage	46,000	23,800
Square footage	48,000	48,000
Total installed price (est)	—	\$19,000
Watts/sq. foot	0.96	0.49
Annual oper. hrs. (365x24)	8760	8760
SAVINGS ANALYSIS		
Annual energy costs	\$40,296	\$20,849
Annual energy savings	existing	\$19,447
Savings / Fixture	N/A	\$194.47
PAYBACK		.98 Year

Simkar's Reflect-a-Bay™ is the perfect complement to our innovative Adjust-a-Bay series of product. Reflect-a-Bay™ incorporates all the attention to quality and

detail you've come to expect, offering T5 or T8 in four, six, and eight lamp configurations. Coupled with a variety of options and accessories, Reflect-a-Bay™ is the

perfect choice for new or retrofitting manufacturing, warehouse, retail, or institutional applications.



Choice of reflectors:

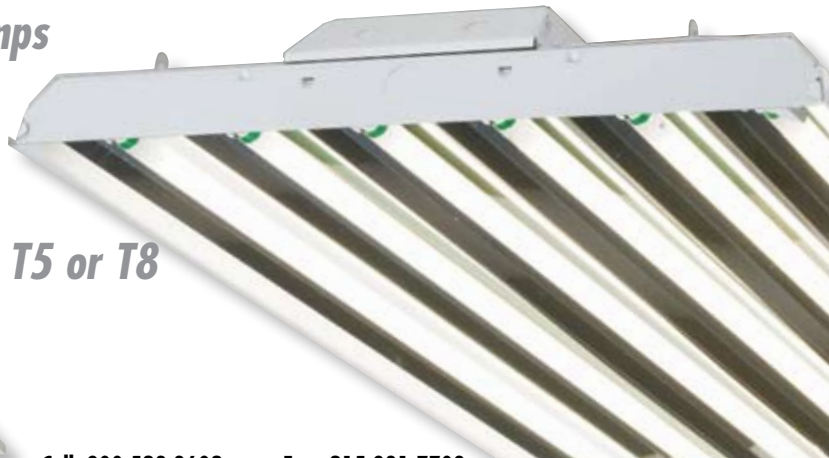
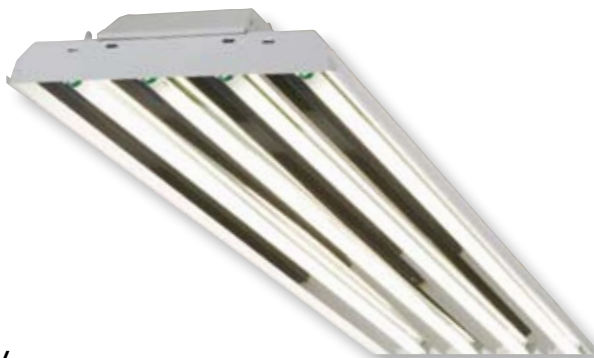
- 85% reflective with medium to wide distribution
- White reflector available for lowbay applications

7 mounting options

Features	Benefits
Energy efficient T5 or T8 lamps 85% reflective aluminum reflector	Uses up to 75% less energy Maximum light output
Efficient electronic ballast with T5 or T8	Produces up to 95 maintained lumens per watt
Wide distribution	Improved horizontal & vertical illumination
95% lumen maintenance	Stays brighter than MH
Optional uplight	Reduces "cave effect"
Instant On	Control-friendly, combine with optional motion sensor & photo cell to increase energy savings
Low Harmonic Distortion	<10%



4, 6, or 8 lamps



T5 or T8

Reflect-A-Bay Series Ordering Information

Series	# Lamps	Lamp Type	Aperture	Reflector	Options	Ballast	Switching	Voltage
REF	4 6 8	32 = F32T8 54 = F54T5HO	A = Aperture S = Solid	SR = Specular Aluminum WR = White	ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens) <i>NOTE: ELS2 AND ELS3 FOR T8 OPERATE ONE OR TWO LAMPS. ALL OTHERS OPERATE ONE LAMP ONLY.</i>	B11 = T8 B11HP(x) = HPT8* B12 = T5 HO	For 4 lamp units 4L = (1) 4-lamp ballast (standard) 2/2L = (2) 2-lamp ballasts For 6 lamp units Blank = (1) 4-lamp ballast and (1) 2-lamp ballast (standard) 2/3L = (2) 3-lamp ballasts For 8 lamp units Blank = (2) 4-lamp ballasts (standard)	UNV = 120-277V 347 = 347V 480 = 480V

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Options	Mounting Accessories (Order Separately)	Accessories (Order Separately)
OS(x) = Occupancy Sensor (specify # of lamps controlled - 2, 4, 6 or 8) OSI(x) = Occupancy Sensor; factory-installed (specify # of lamps controlled - 2, 4, 6 or 8) OSDL(x) = Daylight Sensor (specify # of lamps controlled - 2, 4, 6 or 8) FB = Fast blow fuse SB = Slow blow fuse BP = Bulk Pack 6' Cord and Plug CPT(x) 1 = 120V; 2 = 277V; 3 = 208V; 4 = 240V; 5 = 480V CP3 = Cord & Plug - 120V Straight Blade 5-15P	CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24" CS24 = S-hook Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24" PM(x) = Twin Pendant Mount - 2 white stems - specify length (24", 36", 48", 60", 72") HKSC = Hook & Chain Assembly - Monopoint mount to four point suspension. (Includes hook, chain, and mounting plate) CAB(x)72 = Adjustable Cables - includes 6-foot steel aircraft cables, toolless adjusters and mounting hardware. Specify "2" for 2 cables & Y-hanger or "4" for 4 cables. SBH = Slide Box with hook - Level adjustable for mono-point hook mount. SBP(x) = Slide Box & Single Pendant Mount - Level adjustable for mono-point pendant mount - specify length (24", 36", 48", 60", 72"). Other lengths available.	RWG(x) = Heavy Duty Wire Guard REF(x) = acrylic Lens WREF(x) = acrylic Lens And Heavy Duty Wire Guard Combo <i>For above, please specify # of lamps (4, 6, or 8)</i>

PAYBACK

LAYOUT	Existing System	Proposed System
	250W Low Bay Metal Halide	4 Lamp F32T8
Fixture mounting height	20'	20'
Lamp & fixture data		
Initial lamp lumens	20,500	2,950
Number of lamps	1	4
Initial fixture lumens	20,500	11,800
Ballast factor	1	1.04
Initial fixture lumens (ballast corrected)	20,000	12,272
Lamp lumen depreciation	0.60	0.95
Luminaire dirt depreciation	0.85	0.85
Fixture efficiency	0.80	0.98
Maintained fixture lumens	8364	9711
Fixture watts	288	136
Fixture lumens/watt	29	71
CRI (color rendering index)	65	82
Avg. maintained footcandles	23	26
Operating Data		
Number of fixtures	100	100
Cost/kWh	\$0.10	\$0.10
Total wattage	28,880	13,600
Square footage	36,000	36,000
Total installed price	-	\$19,000
Watts/sq. foot	0.8	0.36
Annual oper. hrs. (365x24)	8760	8760
SAVINGS ANALYSIS		
Annual energy costs	\$25,298	\$11,914
Annual energy savings	existing	\$13,384
Savings / Fixture		\$133.84
PAYBACK		1.41 Years

Save up to 50% in energy when used in place of traditional HID

*Consult Factory

The MIRO Industrial, designed to replace metal halide and conventional fluorescent lighting in commercial, industrial, educational, and retail applications, combines a performance-boosting 95% reflective MIRO® 4 aluminum high efficiency reflector with T5, T5HO, and T8 linear fluorescent lamps. The result is increased light levels, improved color rendition, and excellent uniformity while using up to 75% less energy.

Superior light quality

Save up to 75% in energy when used in place of traditional HID

Great performance in an economical package



<i>Features</i>	<i>Benefits</i>
Choice of lumen packages	Uses up to 75% less energy
95% reflective MIRO 4 aluminum reflector	Maximum light output with less glare
Efficient electronic ballast with T5 or T8 lamp	Produces up to 95 maintained lumens per watt
Superior light quality	Improved horizontal & vertical illumination; excellent CRI & uniformity
95% lumen maintenance	Stays brighter longer than MH
Optional uplight	Reduces cave effect & improves task visibility
Instant On	Control friendly, combine with optional motion sensor & photo cell to increase energy savings



70-95 maintained lumens/watt vs. only 30-50 for HID

Precision-engineered, 95% reflective MIRO 4 aluminum reflector

MIE Premium Specular Industrial Ordering Information

Series	# Lamps	Lamps	Reflector Options	Options
MIE	1	28 = 28W 48" T5	Solid is standard A = Aperture 12% uplight	ELS1 = Emergency Lighting (low lumens) ELS2 = Emergency Lighting (medium lumens) ELS3 = Emergency Lighting (high lumens)
	2	32 = 32W 48" T8		
	3	48 = 48" Slimline		
		96 = 96" Slimline		
	21 = Tandem, 2 lamps	High Output		
	22 = Tandem, 4 lamps	48 = 48" HO		
	23 = Tandem, 6 lamps	54 = 54W T5HO		
		96 = 96" HO		
		Very High Output		
		48 = 48" VHO		
	96 = 96" VHO			

Ballast	Switching	Voltage
HOB5 = High Output Electronic T12	For 2 lamp units Blank = single ballast 2/1L = (2) 1-lamp ballasts	UNV = 120-277V 120 = 120V 277 = 277V
B11 = Electronic T8		
B11HP(x) = HPT8*		
HOB11 = High Output Electronic T8	For 3 and 4 lamp units Blank = dual ballasts 3L = (1) 3-lamp ballast 4L = (1) 4-lamp ballast	
B12 = Electronic T5		
HO = High Output		
VHO = Very High Output		
	For 6 lamp tandem units 2/3L = (2) 3-lamp ballasts 2L4L = (1) 2-lamp and (1) 4-lamp ballast	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.

Accessories
SN - Snapper Brackets
CA24 = Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
CS24 = S-hook Chain Hanger Assembly - (2) 18" chains, (2) "V" hooks, (2) "S" hooks for total drop 24"
HKSC - Hook & Chain Assembly (24" total drop; 4' fixtures only)
LG48 - 48" wire guard
AC - Aligner Clip / Joiner
CHJ - Connector Joiner

PAYBACK

LAYOUT	Existing System	Proposed System
	150W Metal Halide	2 Lamp T8
Fixture mounting height	16'	16'
Lamp & fixture data		
Initial lamp lumens	12,000	2,950
Number of lamps	1	2
Initial fixture lumens	12,000	5,900
Ballast factor	1	1.18
Initial fixture lumens (ballast corrected)	12,000	6962
Lamp lumen depreciation	0.60	0.90
Luminaire dirt depreciation	0.85	0.85
Fixture efficiency	0.80	0.95
Maintained fixture lumens	4896	5060
Fixture watts	173	77
Fixture lumens/watt	28.3	68
Footcandles		
CRI (color rendering index)	65	85
Avg. maintained footcandles operating data	61	64
Number of fixtures	100	100
Cost/kWh	\$0.10	\$0.10
Total wattage	17,300	7700
Square footage	8000	8000
Total installed price	-	\$15,000
Watts/sq. foot	2.2	.96
Annual oper. hrs. (365x24)	8760	8760
SAVINGS ANALYSIS		
Annual energy costs	\$15,155	\$6745
Annual energy savings	existing	\$8410
Savings / Fixture		\$84.10
PAYBACK		1.8 Years



The Z Pod lighting system is equipped with the most technologically advanced electronic ballast available for pulse start metal halide. Z Pod offers the reliability of

microprocessor operation with features and performance superior to conventional pulse start metal halide ballasts. The electronic pulse start ballast provides a controlled start up of

less than one minute for cold lamps, and restrike times are approximately four minutes, 60% faster than conventional magnetic ballasted metal halide.

Shortened start-up time

Faster restrike

Improved lumen maintenance over life of the lamp

Maintained color uniformity

Dimmable



Features	Benefits
Microprocessor ballast operation	Detects thermal & voltage variations
Electronic HID	Sound rated A Less than 15% harmonic distortion
Start up	Less than one minute for cold lamps to reach full light output
Restrike time	Approximately four minutes - 1/3 the time of conventional probe start metal halide
Pulse start lamp technology	Maintains color uniformity over lamp life & dimming range 56% increase in mean lumens vs. probe start metal halide
Dimming capability	Virtually unlimited continuous dimming capabilities to 50% of the nominal lamp wattage and light output
Improved lumen maintenance	50% improvement in lumen maintenance over conventional probe start metal halide

ZC Series Ordering Information

Series	Reflector Size	Wattage Lamp	Enclosed Rated Lamp / Slide-Box	Enclosed Rated Lamp, Hook, Cord & Plug	Open Rated Lamp, Slide-Box	Open Rated Lamp Hook, Cord & Plug
ZCS	17"	☑ 250W MH/PS	ZCS0825-(a)L(b)*	ZCS2825-(a)L(b)*	ZCS0925-(a)L(b)*	ZCS2925-(a)L(b)*
		☑ 320W MH/PS	ZCS0832-(a)L(b)*	ZCS2832-(a)L(b)*	ZCS0932-(a)(b)	ZCS2932-(a)(b)
		☑ 350W MH/PS	ZCS0835-(a)L(b)*	ZCS2835-(a)L(b)*	ZCS0935-(a)(b)	ZCS2935-(a)(b)
		☑ 400W MH/PS	ZCS0840-(a)L(b)*	ZCS2840-(a)L(b)*	ZCS0940-(a)(b)	ZCS2940-(a)(b)
ZCL	22"	☑ 320W MH/PS	ZCL0832-(a)L(b)*	ZCL2832-(a)L(b)*	ZCL0932-(a)(b)	ZCL2932-(a)(b)
		☑ 350W MH/PS	ZCL0835-(a)L(b)*	ZCL2835-(a)L(b)*	ZCL0935-(a)(b)	ZCL2935-(a)(b)
		☑ 400W MH/PS	ZCL0840-(a)L(b)*	ZCL2840-(a)L(b)*	ZCL0940-(a)(b)	ZCL2940-(a)(b)

Voltage (a)	Options (b) (Factory Installed)	Accessories (Field Installed)
A = Auto Voltage Input (standard) 200-277V For units with hook, cord & plug, specify voltage: 1 = 120V 2 = 277V 3 = 208V 4 = 240V	C = Coated Lamp L = Flat lens assembly included on * fixtures Q = Quartz Standby	Flat Glass Lens - 17" & 22" Options & Accessories on page 188 Wire Guard - 17" & 22" Options & Accessories on page 188 A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ DMC-1 = Dimming Module Electronic Controllers on page 156 CX-100 = Passive infrared occupancy sensor on page 154 B-120E-P = 120V Power Supply Electronic Controllers on page 157 B-277E-P = 277V Power Supply Electronic Controllers on page 159

See page 188 for complete listing of all lens assemblies and guard options.
 * Includes bottom lens assembly plus appropriate cost adder



ZL Series Ordering Information

Series	Reflector Size	Wattage / Lamp	Enclosed Rated Lamp Slide-Box	Enclosed Rated Lamp Hook, Cord & Plug	Open Rated Lamp Slide-Box	Open Rated Lamp Hook, Cord & Plug
ZLS	16"	☑ 250W MH/PS	ZLS0825-(a)L(b)*	ZLS2825-(a)L(b)*	ZLS0925-(a)(b)	ZLS2925-(a)(b)
		☑ 320W MH/PS			ZLS0932-(a)(b)	ZLS2932-(a)(b)
		☑ 350W MH/PS			ZLS0935-(a)(b)	ZLS2935-(a)(b)
		☑ 400W MH/PS			ZLS0940-(a)(b)	ZLS2940-(a)(b)
ZLM	22"	☑ 320W MH/PS	ZLM0832-(a)L(b)*	ZLM2832-(a)L(b)*	ZLM0932-(a)(b)	ZLM2932-(a)(b)
		☑ 350W MH/PS	ZLM0835-(a)L(b)*	ZLM2835-(a)L(b)*	ZLM0935-(a)(b)	ZLM2935-(a)(b)
		☑ 400W MH/PS	ZLM0840-(a)L(b)*	ZLM2840-(a)L(b)*	ZLM0940-(a)(b)	ZLM2940-(a)(b)
ZLL	25"	☑ 350W MH/PS	ZLL0835-(a)L(b)*	ZLL2835-(a)L(b)*	ZLL0935-(a)(b)	ZLL2935-(a)(b)
		☑ 400W MH/PS	ZLL0840-(a)L(b)*	ZLL2840-(a)L(b)*	ZLL0940-(a)(b)	ZLL2940-(a)(b)

* Includes bottom lens assembly plus appropriate cost adder

Voltage Suffix Key (a)	Options (b) (Factory Installed)	Options and Accessories (Field Installed)
A = Auto Voltage Input (standard) 120-277V (250) 200-277V (320-400) For units with hook, cord & plug, specify voltage: 1 = 120V 2 = 277V 3 = 208V 4 = 240V	C = Coated Lamp* Q = Quartz Standby <i>*Coated lamps are recommended. Maximum effectiveness is achieved through the use of coated lamps that reduce glare.</i>	Options & Accessories on page 188 Conical Lens - 22" & 25" Flat Acrylic Lens - 22" Acrylic Drop Lens - 22" (up to 400W) Aislelighter Lens - 25" (ZLL up to 400W only) Wire Guard - 16", 22" & 25" Full Wire Guard - 16", 22" & 25" Drop Lens w/Wire Guard - 22" A HK SC = Mounting Hook - 3/4" Thread with Safety Snap-Lock™ DMC-1 = Dimming Module Electronic Controllers on page 156 CX-100 = Passive infrared occupancy sensor on page 157 B-120E-P = 120V Power Supply Electronic Controllers on page 159 B-277E-P = 277V Power Supply Electronic Controllers on page 159



5 Optical Configurations

An often overlooked but simple energy saving opportunity can be found in Exit and Emergency lighting.

A typical exit sign can use up to 40 watts and the lamps must be changed twice per year. Our LED exit signs use less than 5 watts and have a life expectancy of more than 10 years, saving energy and maintenance costs.

SLED Series Ordering Information

Series	Options	Lettering	Housing	Signage	Options
SLED	A = AC B = Battery Backup	G = Green R = Red	B = Black W = White	EXIT = Exit SALIDA = Salida	2 CIRCUIT = Dual Circuit SD = Self-Diagnostic

SREL Series Ordering Information

Series	Options	Faces	Lettering	Trim Plate	Options
SREL	A = AC B = Battery Backup	1 = Single 2 = Double	G = Green R = Red	B = Black W = White A = Aluminum	2 CIRCUIT = Dual Circuit SD = Self-Diagnostic

SEL Series Ordering Information

Series	Options	Faces	Lettering	Housing	Options
SEL	A = AC B = Battery Backup	1 = Single 2 = Double	G = Green R = Red	A = Aluminum W = White	2 CIRCUIT = Dual Circuit

SSL Series Ordering Information

Series	Life	Faces	Face	Housing
SSL	10 = 10 years 20 = 20 years	1 = Single 2 = Double	G = Green R = Red B = Black W = White	B = Black W = White

SDC Series Ordering Information

Series	Options	Faces	Lettering	Housing	Face Color	Options
SDC	A = AC B = Battery Backup	1 = Single 2 = Double	G = Green R = Red	A = Brushed Aluminum B = Black W = White	A = Brushed Aluminum B = Black W = White	2 CIRCUIT = Dual Circuit SD = Self-Diagnostic

SWLED Series Ordering Information

Series	Options	Lettering	Housing
SWLED	A = AC B = Battery Backup	G = Green R = Red	W = White

SCLI Series Ordering Information

Series	Faces	Lettering	Housing	Signage	Options
SCLI	2 = Double	G = Green R = Red	B = Black W = White	EXIT = Exit SALIDA = Salida	REM = Remote capable SD = Self-Diagnostic 7 = 7.2W lamps MR16 = MR16 lamps



SLED



SREL



SEL



SSL



SDC



SWLED



SCLI

As part of Simkar's systems, we offer dimming sensors and controls for a wide range of applications and environments, from single manual controls to sophisticated daylight harvesting and occupancy monitoring systems.

Simkar can help you determine the best solutions for your applications, including combining sensor types, modular control wiring, interconnectivity, integrating daylight harvesting technology, and preparing for special environments. Contact us to find out how we can help you save money through the use of sensor and control technology.

Why sensors and controls?

The most straightforward method of reducing lighting dollars is controlling the light levels when alternate sources are available or switching off the lights or dimming an area when not in use. These can be accomplished with sensors and controls.

Occupancy sensors detect presence by heat or movement and adjust the lights accordingly. There are two general types of sensors. Infrared and ultrasonic. Infrared is the most common and detects movement by reading a heat "print". Ultrasonic sensors work similar to sonar where a pulse is sent out and reflected back. When there is a change in the time of the

reflection it is considered movement. Depending upon the light source and configuration, lamps may be dimmed or turned out entirely when no one is in the area. Sensors can also be set for duration of illumination after the occupant leaves the area to reduce the number of times a fixture needs to start, which may effect lamp life.

Controls are usually manual but can also be a time-clock or a combination. Controls can be used to turn lights on and off as well as for dimming if the system allows.

The savings gained by sensors and controls is dependant upon the "Duty Cycle" of the application. E.g. If an occupancy sensor is used and turns the lights out 50% of the time in an area, the power consumption for that area is cut in half.

In remote areas of warehouses, storage facilities, and access areas such as stairways, full light may be needed as little as 5% of the time, creating a great source of energy savings. For safety reasons some areas may allow dimming controls only. These restrictions may be obtained through state or local authorities and codes.

Don't just replace your lamp and ballast technology... **UPGRADE IT**

Probe start technology is being phased out, and when it's time to replace your existing lamps and ballasts, choose Simkar's Lamp and Ballast Kits.

Pulse start metal halide systems utilize a unique lamp and ballast, creating an unparalleled energy efficient lighting solution. Pulse start systems provide more

light output, consistent color uniformity, better lumen maintenance, longer life, and faster warmup and restrike times than traditional probe start metal halide lamps.

Lamp/Ballast Kit ordering information

ANSI#	Ordering Code	Description
M136/E	RKM200/M/PS*	200 watt enclosed rated lamp
M136/O	RKMP200/M/PS	200 watt open rated lamp
M153/E	RKM250/M/PS*	250 watt enclosed rated lamp
M153/O	RKMP250/M/PS	250 watt open rated lamp
M154/E	RKM320/M/PS*	320 watt enclosed rated lamp
M154/O	RKMP320/M/PS	320 watt open rated lamp
M131/E	RKM350/M/PS*	350 watt enclosed rated lamp
M131/O	RKMP350/M/PS	350 watt open rated lamp
M155/E	RKM400/M/PS*	400 watt enclosed rated lamp
M155/O	RKMP400/M/PS	400 watt open rated lamp
M144/E	RKM450/M/PS	450 watt enclosed rated lamp
M144/O	RKMP450/M/PS	450 watt open rated lamp

* Vertical burn lamps supplied. For horizontal burn, add /HOR to ordering code
All kits listed have constant wattage multi-tap (120V, 208V, 240V, 277V) ballasts.
480 Volt kits are also available

All Simkar pulse start lamp/ballast kits come complete with:

- Lamp
- Ballast
- Capacitor
- Mounting Brackets
- Ignitor
- Instructions





Dark Sky



DARK SKY



FIXTURE SEAL OF APPROVAL

Formed in 1988, the International Dark-Sky Association is the authoritative voice on light pollution. IDA educates lighting designers, manufacturers, technical committees, and the public about light pollution abatement. The IDA recognizes that the best way to accomplish the goal of protecting and restoring our natural night environment and our heritage of dark skies is

through promotion of quality outdoor lighting. It is in this spirit that they have developed the Fixture Seal of Approval (FSA) program for dark-sky friendly fixtures.

The Fixture Seal of Approval provides objective, third-party certification for luminaires that minimize glare, reduce light trespass, and don't pollute the night sky.

Wattage Range:
35 to 1000 W



Lamp Included

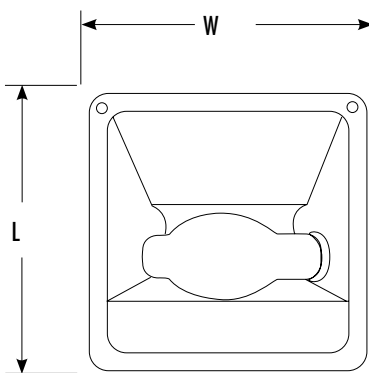
Featuring a sleek square design with rounded edges, the FF Series is offered with either a 12", 16" or 23" die cast aluminum housing.



 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FFS Series	12.4"	12.4"	5.25"	18 lbs.
FFM Series	16.4"	16.4"	7.0"	38 lbs.
FFL Series	23.4"	23.4"	10.25"	68 lbs.



Features

Housing

Die cast aluminum housing with flush doorframe and rounded edges are standard with bronze, black or white polyester powder topcoat. Other colors available upon request. The 16" and 23" housings can be rotated. (See Optics)

Optics

This compact Type IV forward-throw reflector has a main beam of 60°+ from vertical (30° from horizontal), providing a wide lateral distribution and improved uniformities. A supplied backlight shield permits precise cutoff adjustability. The 16" and 23" housings have mounting knockouts on three sides that allow the housing to be rotated 90 degrees either right or left.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

- 12" housing: 35 - 175W medium base lamp
- 16" housing: 150 - 400W mogul base lamp
- 23" housing: 400 - 1000W mogul base lamps

(An ED28 lamp is standard in the 320 - 400W MH fixtures; a BT37 lamp is standard with the 1000W fixtures.)

Lens

A clear, tempered glass lens is held securely in a die cast doorframe. Complete silicon gasketing around the lens frame and at mounting points provide a watertight seal.

EPA Ratings

Because of its unique design, lower EPA levels are obtained, resulting in lower pole costs. EPA Ratings are listed on page 252.

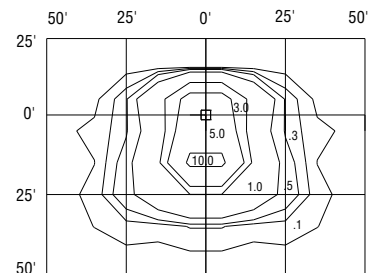
Mounting Options

Refer to page 318 for a complete description of mounting options.

Photometric Data

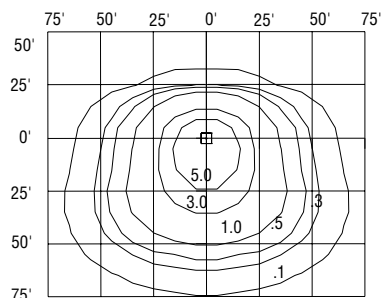
(Isofootcandle Plots)

12" FFS



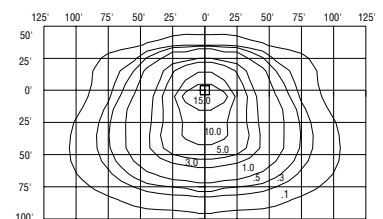
Isofootcandle plot of 175W MH Forward-Throw Floodlight at 15' mount height, 0° vertical tilt.

16" FFM



Isofootcandle plot of 400W MH Forward-Throw Floodlight at 25' mount height, 0° vertical tilt.

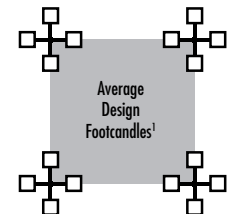
23" FFL



Isofootcandle plot of 1000W MH Forward-Throw Floodlight at 30' mount height, 0° vertical tilt.

Forward Throw Floodlight Pole Spacing Selection Guide

Lamp Type	Desired Mounting Height	Design Footcandles	Catalog Number
Metal Halide			
175W	12'	19.6	FFS8817
400W	20'	13.5	FFM8440
400W	25'	8.3	
1000W	30'	20.0	FFL8499
1000W	35'	14.5	
High-Pressure Sodium			
250W	20'	12.2	FFM8525
400W	25'	13.7	FFM8540
400W	30'	9.1	
1000W	30'	27.4	FFL8599
1000W	35'	19.8	



Criteria:

Floodlight FF Series, 0° vertical tilt
Mounting Height: 25'
Wattage: 400W
Mounting: 12" Extended Pole Mount
Pole Spacing: 4 times mounting height

¹ assuming 4 floodlights/pole

FF 12" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FFS = 12" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	05 = 50W (MH/PS, HPS) 07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top

* MH/PS lamps must be operated in a $\pm 15^\circ$ vertical or horizontal burning position

FF 16" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FFM = 16" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH) 25 = 250W (MH, MH/PS, HPS) 32 = 320W (MH/PS) 35 = 350W (MH/PS) 40 = 400W (MH, MH/PS, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top M5 = 5 Tap <small>120/277/208/240/480 (400W MH Only)</small>

* MH/PS lamps must be operated in a $\pm 15^\circ$ vertical or horizontal burning position

FF 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FFL = 23" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	40 = 400W (MH, MH/PS, HPS) 75 = 750W (MH/PS) 99 = 1000W (MH, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top M5 = 5 Tap <small>120/277/208/240/480 (400W and 1000W MH Only)</small>

* MH/PS lamps must be operated in a $\pm 15^\circ$ vertical or horizontal burning position

Options (Factory Installed)	Accessories (Field Installed)
(x)P = Photo Control - Specify Voltage (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY WT = White Housing BK = Black Housing <u>Quartz Standby (includes Quartz Lamp)</u> Q = Quartz Standby <u>Fusing</u> (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V <i>Custom Colors Available: Consult factory for pricing and delivery.</i>	<u>12" housing</u> WG-12 = Wire Guard VS-12 = Vandal Shield <u>16" housing</u> WG-16 = Wire Guard VS-16 = Vandal Shield <u>23" housing</u> WG-23 = Wire Guard VS-23 = Vandal Shield <u>Mounting</u> MA1 = 1-1/2" Close Pole Mt. MA2 = 6" Extended Pole Mt. MA3 = 2" Adjustable Slip Fitter MA4 = Yoke Mount MA4H = Yoke mount for 23" MA5 = 12" Extended Pole Mt.

Mountings



1-1/2" Close Pole Mount

Ordering Code
MA1



6" Extended Pole Mount

Ordering Code
MA2



2" Adjustable Slip Fitter

Ordering Code
MA3



Yoke Mount

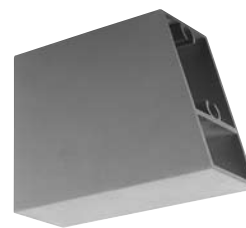
Ordering Code
MA4



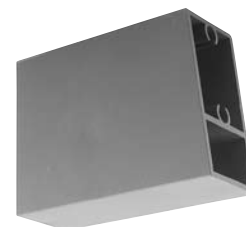
12" Extended Pole Mount

Ordering Code
MA5

10° & 20° Arms - Order Separately



MA2T10
6" Arm - 10° Tilt
MA5T10
12" Arm - 10° Tilt



MA2T20
6" Arm - 20° Tilt
MA5T20
12" Arm - 20° Tilt

Wattage Range:
35 to 1000 W



The FP Series is ideally suited for roadway applications, parking areas or for building-mounted security lighting. Units feature a sleek square design with rounded edges in either a 12", 16" or 23" die cast aluminum housing.



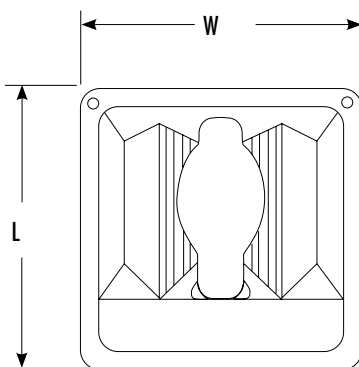
DARK SKY



Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
FPS Series	12.4"	12.4"	5.25"	18 lbs.
FPM Series	16.4"	16.4"	7.0"	33 lbs.
FPL Series	23.4"	23.4"	10.25"	68 lbs.



Features

Housing

Die cast aluminum housing with flush doorframe and rounded edges are standard with bronze, black or white polyester powder topcoat. Other colors available upon request. The 16" and 23" housings can be rotated. (See Optics)

Optics

The 16" and 23" housings come standard with Type III asymmetric distribution. Ideally suited for roadway applications, parking areas or building mounted security lighting. The 16" and 23" housings have mounting knockouts on three sides that allow the housing to be rotated 90 degrees either right or left.

Ballast

All fixtures come standard with a high-power factor multi-tap or 480V ballast. All units are supplied with a 36" SOW 16/3 cord. If no voltage is specified, cord is connected to highest voltage.

Lamps

- 12" housing: 35 - 175W medium base lamp
- 16" housing: 70 - 400W mogul base lamp
- 23" housing: 750 - 1000W mogul base lamps

(Note: To increase light levels by 20%, specify a pin-oriented socket using a MS400/HOR or MS1000/HOR lamp.)

Lens

A clear, tempered glass lens is held securely in a die cast doorframe. Complete silicon gasketing around the lens frame and at mounting points provide a watertight seal.

EPA Ratings

Because of its unique design, lower EPA levels are obtained, resulting in lower pole costs. EPA Ratings are listed on page 252.

Mounting Options

Refer to page 318 for a complete description of

Parking/Roadway Floodlight Pole Spacing Selection Guide

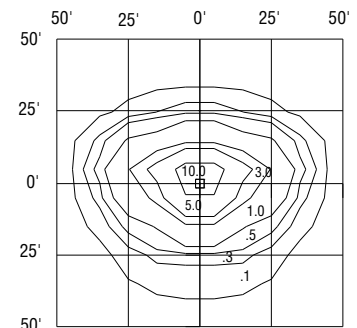
Lamp Type	Desired Mounting Height	Design Footcandles	Catalog Number
Metal Halide			
175W	12'	25.0	FPS8417
400W	20'	16.8	FPM8440
400W	25'	10.5	
1000W	30'	19.8	FPL8499
1000W	35'	14.3	
High-Pressure Sodium			
250W	20'	13.3	FPM8525
400W	25'	15.0	FPM8540
400W	30'	10.2	
1000W	30'	26.9	FPL8599
1000W	35'	19.5	

mounting options.

Photometric Data

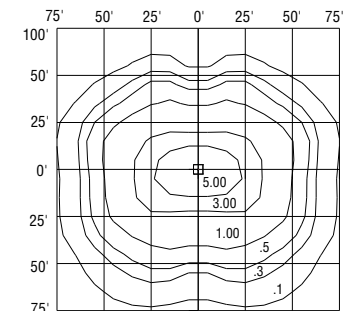
(Isofootcandle Plots)

12" FPS



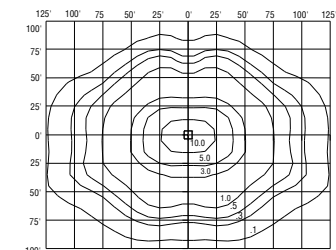
Isofootcandle plot of 175W MH Parking/Roadway Floodlight at 15' mounting height, and 0° vertical tilt.

16" FPM

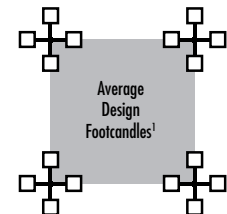


Isofootcandle plot of 400W MH Parking/Roadway Floodlight at 25' mounting height, and 0° vertical tilt.

23" FPL



Isofootcandle plot of 1000W MH Forward-Throw Luminaire at 30' mount height, 0° vertical tilt.



Criteria:
Floodlight FP Series, 0° vertical tilt
Mounting Height: 30'
Wattage: 400W
Mounting: 12" Extended Pole Mount
Pole Spacing: 4 times mounting height

¹ assuming 4 floodlights/pole

FP 12" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FPS = 12" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	05 = 50W (MH/PS, HPS) 07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top

* MH/PS lamps must be operated in a $\pm 15^\circ$ vertical or horizontal burning position

FP 16" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FPM = 16" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	07 = 70W (MH/PS, HPS) 10 = 100W (MH/PS, HPS) 15 = 150W (MH/PS, HPS) 17 = 175W (MH) 25 = 250W (MH, MH/PS, HPS) 32 = 320W (MH/PS) 35 = 350W (MH/PS) 40 = 400W (MH, MH/PS, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top M5 = 5 Tap <small>120/277/208/240/480 (400W MH Only)</small>

* MH/PS lamps must be operated in a $\pm 15^\circ$ vertical or horizontal burning position

FP 23" Series Ordering Information

Series	Mounting	Light Source	Wattage, Type	Voltage
FPL = 23" Housing	8 = Without Mounting	4 = MH 5 = HPS 8 = MH/PS*	40 = 400W (MH, MH/PS, HPS) 75 = 750W (MH/PS) 99 = 1000W (MH, HPS)	1 = 120 2 = 277 3 = 208 4 = 240 5 = 480 M = Multi-Top M5 = 5 Tap <small>120/277/208/240/480 (400W and 1000W MH Only)</small>

* MH/PS lamps must be operated in a $\pm 15^\circ$ vertical or horizontal burning position

Mountings



1-1/2" Close Pole Mount

Ordering Code
MA1



6" Extended Pole Mount

Ordering Code
MA2



12" Extended Pole Mount

Ordering Code
MA5



Wishbone Mount

See Accessories for Code

Options (Factory Installed)	Accessories (Field Installed)
<p>(x)P = Photo Control - Specify Voltage (Twist lock receptacle & matching photocell supplied.) 16" & 23" ONLY</p> <p>WT = White Housing BK = Black Housing</p> <p><u>Fusing</u> (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V</p> <p><u>Quartz Standby (includes Quartz Lamp)</u> Q = Quartz Standby</p> <p><i>Custom Colors Available: Consult factory for pricing and delivery.</i></p>	<p><u>12" housing</u> WG-12 = Wire Guard VS-12 = Vandal Shield</p> <p><u>16" housing</u> WG-16 = Wire Guard VS-16 = Vandal Shield WBR16¹ = Wishbone Mount for 4" Round Pole WBS16¹ = Wishbone Mount for 4" Square Pole</p> <p><u>23" housing</u> WG-23 = Wire Guard VS-23 = Vandal Shield WBR23¹ = Wishbone Mount for 4" Round Pole WBS23¹ = Wishbone Mount for 4" Square Pole</p> <p><u>Mounting</u> MA1 = 1-1/2" Close Pole Mt. MA2 = 6" Extended Pole Mt. MA5 = 12" Extended Pole Mt.</p> <p>¹ See page 247 for restrictions.</p>

Wattage Range:
100W and 175 MH
150W HPS



Lamp Included

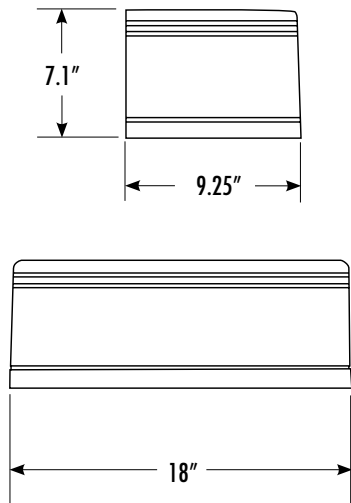
This crescent-shaped, surface mount wallpack is ideal for parking areas, entrances, walkways, underpasses, loading docks, recreation areas and tunnels.



UL Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WCM Series	7.1"	18"	9.25"	12.87 lbs.



Features

Housing

Heavy-duty die cast aluminum housing is powder-coated in a dark architectural bronze color. Silicone rubber prevents any leakage due to outside elements.

Ballast

The 175W MH version is furnished with a high power factor, constant wattage multi-tap ballast. The 100W MH and 150W HPS versions are furnished with a high power factor, high reactance multi-tap ballast.

Lamps

Fixtures are supplied with medium base lamps.

Reflector

One-piece anodized aluminum designed reflector for best light efficiency.

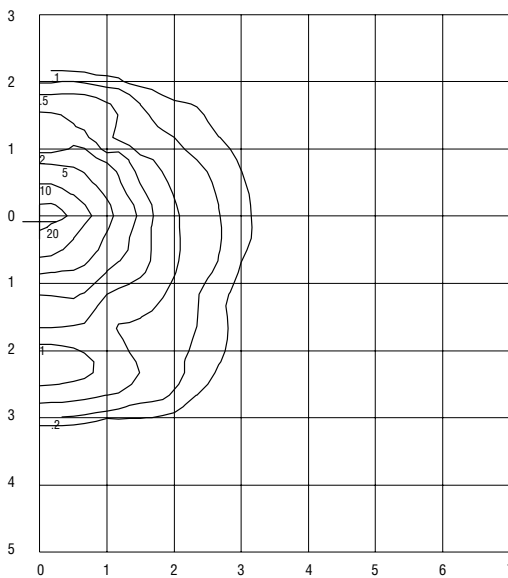
Mounting Options

The WCM series wallpack is easy to install directly to a 4" recessed outlet box or 1/2" surface conduit into a 1/2" threaded bushing. Remove the two mounting screws from the fixture (see 'A', page 69). Gently pull the mounting plate with gasket from the housing (B) and install to the mounting surface utilizing the built-in level bubble (C). Mount the fixture to the plate (D) and reinstall the mounting screws (E).

Photometric Data

(Isofootcandle Plots)

18" WCM



Distance in Units of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown as Dashed Curve
(+) = Maximum Candela Point
Cat. # WCM0417-M

WCM Series Ordering Information

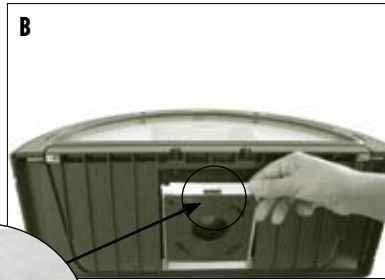
Mounting Position	Wattage Lamp	Catalog Number
	☼ 100 watt MH/PS	WCM0810-M*
Wall	175 watt MH	WCM0417-M*
	150 watt HPS	WCM0515-M*

*Multi-tap tapped @277V

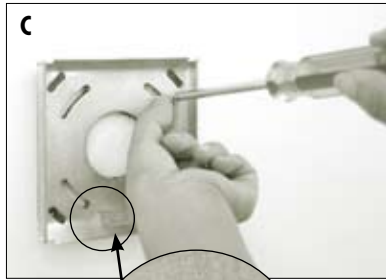
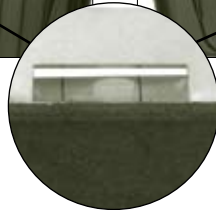
WCM Mounting Procedure



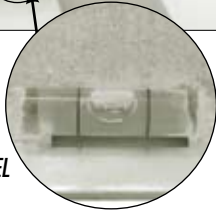
A
Remove mounting screws from fixture



B
Gently pull the mounting plate and gasket from the housing



C
Install plate to the mounting surface utilizing the integrated level



INTEGRATED LEVEL



D
Connect wires and mount fixture to the plate



E
Reinstall mounting screws

Wattage Range:
WFM 26 - 175W
WFL 64 - 400W



Lamp Included

The **WFM/WFL** Series Wallpacks offer a wide light distribution with controlled light spillage.



DARK SKY

40°C Ambient Rated

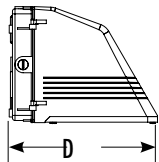
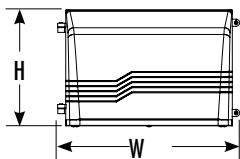


Listed for Wet Locations
Consult Factory for CUL Availability

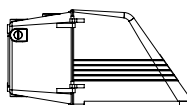
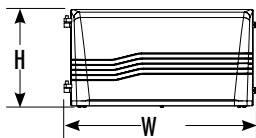
Dimensions

	Fixture Height	Fixture Width	Fixture Depth	Approx. Ship Wt.
WFM Series	9"	13"	11.5"	15 lbs.
WFL Series	9"	18"	17.2"	26 lbs.

WFM Series



WFL Series



Features

Housing

The bronze die-cast aluminum housing, thick prismatic glass refractor and stainless steel hardware together make the WFM & WFL Series Full Cutoff Wallpacks resistant to both weather and vandalism. Dark sky compliant when mounted in down position.

Ballast

The metal halide WFM Wallpack utilizes a multi-tap HX or CWA HPF ballast. HPS fixtures can be ordered with a multi-tap HX HPF ballast as an option. 120V ballasts use reactor NPF ballasts. All sizes of the WFL Wallpacks are supplied with a CWA HPF multi-tap or 480V ballast. CFL fixtures include 120/277V electronic ballasts.

Lamps

The WFM luminaire uses a medium base metal halide lamp (50 - 175W) or a medium base HPS lamp (50 - 150W). The WFL luminaire uses mogul base, metal halide lamps (175 - 400W) and HPS (250-400W) lamps. (Note: To increase light levels by 20%, specify a position-oriented socket using a MS400/HOR.) CFL Fixtures include 4-pin quad lamps.

Lens

Both the door and prismatic glass lens utilize weatherproof silicone gasketing to seal out contaminants.

Access / Wiring

The side-hinged door opens easily using two captive stainless steel screws to provide easy access to internal components. Wiring options include mounting over a 4" recessed junction box or surface mounting using convenient conduit entries located on side and bottom of fixture. Additional knockouts are provided for optional photocell.

Mounting Options

The recommended wall mounting height of the WFM Wallpack is 12' to 18'. The recommended wall mounting height of the WFL Series is 18' to 24'. Units include rear 1/2" conduit holes access with drill points for mounting.

W Series Wallpack Ordering Information

Series	Wattage Lamp	Catalog Number	
WFM Series 13" Wallpack			
Wall	Ⓜ 50W MH/PS	WFM0805-M*(b)	
	Ⓜ 70W MH/PS	WFM0807-M*(b)	
	Ⓜ 100W MH/PS	WFM0810-M*(b)	
	Ⓜ 150W MH/PS	WFM0815-M*(b)	
	175W MH	WFM0417-M*(b)	
	175W MH (MOGUL)	WFM9417-M*(b)	
	50W HPS 120V (NPF)	WFM0505-1*(b) NPF	
	50W HPS	WFM0505-(a)(b)	
	70W HPS 120V (NPF)	WFM0507-1*(b) NPF	
	70W HPS	WFM0507-(a)(b)	
	100W HPS 120V (NPF)	WFM0510-1*(b) NPF	
	100W HPS	WFM0510-(a)(b)	
	150W HPS 120V (NPF)	WFM0515-1*(b) NPF	
	150W HPS	WFM0515-M*(b)	
	Ⓜ (2) 26W CFL	WFM0352-D*	
	Ⓜ (2) 32W CFL	WFM0364-D*	
	Ⓜ (2) 42W CFL	WFM0384-D*	
	WFL Series 18" Wallpack		
	Wall	175W MH	WFL0417-(a)(b)
		Ⓜ 200W MH/PS	WFL0820-(a)(b)
250W MH		WFL0425-(a)(b)	
Ⓜ 250W MH/PS		WFL0825-(a)(b)	
Ⓜ 320W MH/PS		WFL0832-(a)(b)	
Ⓜ 350W MH/PS		WFL0835-(a)(b)	
400W MH		WFL0440-(a)(b)	
Ⓜ 400W MH/PS		WFL0840-(a)(b)	
400W MS/HOR		WFL0740-(a)(b)	
Position-oriented socket			
250W HPS		WFL0525-(a)(b)	
400W HPS		WFL0540-(a)(b)	
Ⓜ (2) 32W CFL		WFL0364-D*	
Ⓜ (2) 42W CFL		WFL0384-D*	

*See Voltage below

Voltage (a)	Options (b) (Factory Installed)
1 = 120V 2 = 277V 3 = 208V 4 = 240V 5 = 480V (150W and above only) M = Multi-tap; tapped @ 277V D = Dual-tap 120/277V (CFL only)	HPF = High Power Factor (HPS 120V only - change NPF to HPF) WT = White Housing BK = Black Housing B = Button Photocell (Must designate voltage - change M to "1" for 120 V or "2" for 277 V)

Wattage Range:
50 - 400W



Lamp Included

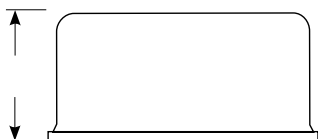
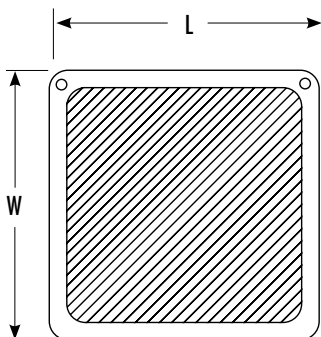
Ideally suited for indoor parking areas, canopies or walkways with a mounting height above 15'. Also ideal for building-mounted security lighting.



 Listed for Wet Locations
Consult Factory for CUL Availability

Dimensions

	Fixture Length	Fixture Width	Fixture Depth	Approx. Ship Wt.
CFS Series	12.4"	12.4"	5.25"	18 lbs.
CFM Series	16.4"	16.4"	7.0"	32 lbs.



Features

Housing

The seamless, die cast aluminum housing is standard with a weather-resistant bronze polyester powder topcoat. The doorframe fits flush with the housing. Complete silicon gasketing between door and housing provides a watertight seal. Removable hinged door supports easy maintenance.

Ballast

All fixtures are standard with high-power factor multi-tap or 480V ballasts.

Lamps

The M Series utilizes mogul base lamps. To increase light levels by 20%, specify a position-oriented socket using an MS400/HOR lamp. The CFS utilizes medium base lamps.

Lens

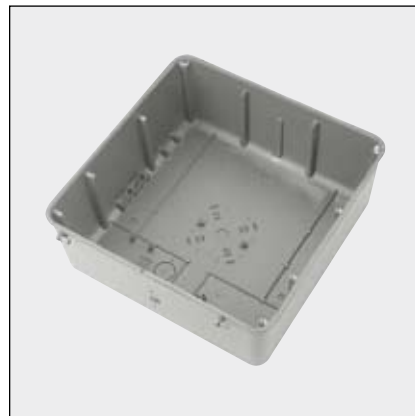
All CF Series fixtures are supplied with C73 prismatic glass for ideal performance and light distribution.

Optics

The CF Series reflector comes standard with hammertone aluminum optics.

Wiring

A knockout is located in the ballast compartment of the CFM housing. Additional knockouts are located on the sidewalls of the CFM housing. The CFS housing has multiple knockouts for mounting to junction boxes.



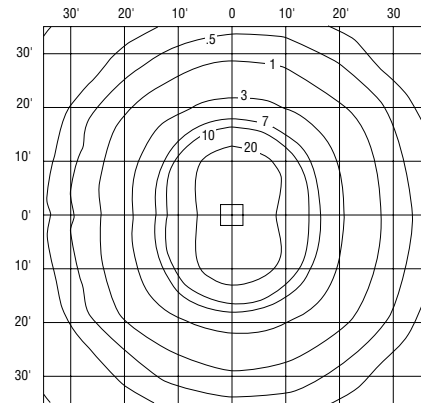
Mounting Options

Three knockouts located in the base of the cast aluminum housing are provided to mount the fixture to steel, concrete ceiling or canopy. Not suitable for mounting to ceilings with combustible material.

Photometric Data

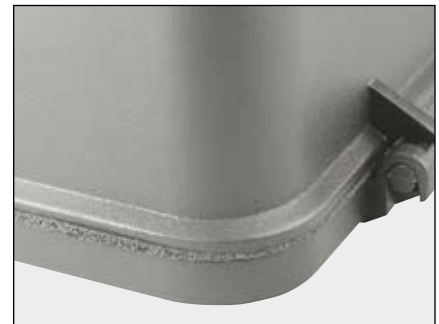
(Isofootcandle Plots)

CF



400W MH CF Series at 15' mounting height.

Special Gasket and Knockout features on the Canopy Fixtures make for easy adaptability and fixture placement.



CF Series Canopy Fixture Ordering Information

Housing Size (sq.)	Wattage Lamp	Catalog Number
12"	☉ 50W MH/PS	CFS0805-(a)(b)
	☉ 70W MH/PS	CFS0807-(a)(b)
	☉ 100W MH/PS	CFS0810-(a)(b)
	☉ 150W MH/PS	CFS0815-(a)(b)
	175W MH	CFS0417-(a)(b)
	50W HPS	CFS0505-(a)(b)
	70W HPS	CFS0507-(a)(b)
	100W HPS	CFS0510-(a)(b)
	150W HPS	CFS0515-(a)(b)
	16"	175W MH
☉ 200W MH/PS		CFM0820-(a)(b)
250W MH		CFM0425-(a)(b)
☉ 250W MH/PS		CFM0825-(a)(b)
☉ 320W MH/PS		CFM0832-(a)(b)
☉ 350W MH/PS		CFM0835-(a)(b)
400W MH		CFM0440-(a)(b)
☉ 400W MH/PS		CFM0840-(a)(b)
400W MS/HOR		CFM0740-(a)(b)
70W HPS		CFM0507-(a)(b)
100W HPS	CFM0510-(a)(b)	
150W HPS	CFM0515-(a)(b)	
250W HPS	CFM0525-(a)(b)	
400W HPS	CFM0540-(a)(b)	

Note: Not suitable for mounting to ceilings with combustible material.

Voltage (a)	Options (b) (Factory Installed)	Accessories: (Field-Installed)
1 = 120V 2 = 277V 3 = 208V 4 = 240V 5 = 480V M = Multi-tap tapped @ 277V	Fusing (x)F = Single - Specify voltage (x): 1 = 120V; 2 = 277V (x)J = Dual - Specify voltage (x): 3 = 208V; 4 = 240V; 5 = 480V Q = Quartz Standby (Includes Q lamp) Non delay-relay type WT = White Housing (Custom Colors Available: Consult factory for pricing and delivery.) Note: HID wattage must be higher than quartz standby wattage.	WG-12 = 12" Wire Guard VS-12 = 12" Vandal Shield WG-16 = 16" Wire Guard VS-16 = 16" Vandal Shield

Mountings



Ceiling Mount

Accessories



Wire Guard

Ordering Code
12": WG-12

16": WG-16



Vandal Shield

Ordering Code
12": VS-12

16": VS-16

Wattage	Volts	Code	Input Watts	Open Circuit Voltage	Starting Current	Operating Current	Open Circuit Current
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Metal Halide

175W ANSI M57	120	8M4M-C500K	213	310	1.23	1.80	1.70
	208	8M4M-C500K	213	310	0.70	1.10	1.10
	240	8M4M-C500K	213	310	0.60	0.90	0.85
	277	8M4M-C500K	213	310	0.52	0.78	0.75
	480	8M4D-C500K	213	310	0.27	0.45	0.51
250W ANSI M58	120	8M5M-C500K	293	305	1.10	2.50	3.05
	208	8M5M-C500K	293	305	0.65	1.45	1.65
	240	8M5M-C500K	293	305	0.55	1.30	1.55
	277	8M5M-C500K	293	305	0.50	1.12	1.25
	480	8M5D-C500K	294	280	0.25	0.65	0.65
400W ANSI M59	120	8M6M-C500K	458	300	2.50	4.00	3.20
	208	8M6M-C500K	458	300	1.40	2.30	1.80
	240	8M6M-C500K	458	300	1.20	2.00	1.60
	277	8M6M-C500K	458	300	1.00	1.70	1.50
	480	8M6D-C500K	458	300	0.60	1.00	0.90
1000W ANSI M47	120	8M8M-C500K	1080	420	4.80	9.20	6.10
	208	8M8M-C500K	1080	420	2.40	5.30	4.90
	240	8M8M-C500K	1080	420	2.30	4.60	3.10
	277	8M8M-C500K	1080	420	1.95	4.00	3.00
	480	8M8D-C500K	1100	440	1.30	2.40	1.50
1500 Watt ANSI M48	120	8M9M-C500K	1605	440	11.30	13.40	6.30
	208	8M9M-C500K	1605	440	6.50	7.75	3.65
	240	8M9M-C500K	1605	440	5.65	6.70	3.15
	277	8M9M-C500K	1605	440	4.90	5.80	2.75
	480	8M9D-C500K	1625	450	3.00	3.40	1.65

Pulse Start Metal Halide

50 Watt ANSI M110	120	8M0M-H510K	68	250	0.87	0.60	1.16
	208	8M0M-H510K	68	250	0.51	0.35	0.67
	240	8M0M-H510K	68	250	0.47	0.30	0.57
	277	8M0M-H510K	68	250	0.39	0.25	0.50
70 Watt ANSI M98	120	8M1M-H510K/PS	95	245	0.80	0.85	1.70
	208	8M1M-H510K/PS	95	245	0.50	0.50	1.04
	240	8M1M-H510K/PS	95	245	0.43	0.43	0.87
	277	8M1M-H510K/PS	95	245	0.39	0.37	0.78
	480	8M1D-H510K/PS	95	245	0.19	0.23	0.50
100 Watt ANSI M90	120	8M2M-H510K/PS	130	250	1.20	1.15	2.30
	208	8M2M-H510K/PS	130	250	0.70	0.60	1.30
	240	8M2M-H510K/PS	130	250	0.61	0.55	1.10
	277	8M2M-H510K/PS	130	250	0.55	0.45	0.95
	480	8M2D-H510K/PS	140	250	0.25	0.35	0.62
150 Watt M102	120	8M3M-H510K/PS	185	245	1.70	1.68	3.32
	208	8M3M-H510K/PS	185	245	1.00	0.98	1.93
	240	8M3M-H510K/PS	185	245	0.80	0.83	1.66
	277	8M3M-H510K/PS	185	245	0.77	0.75	1.48
	480	8M3D-H510K/PS	180	245	0.30	0.44	1.00
175 Watt M137	120	8M4M-C510K/PS	208	255	1.10	1.80	1.70
	208	8M4M-C510K/PS	208	255	0.58	1.10	1.10
	240	8M4M-C510K/PS	208	255	0.51	0.90	0.85
	277	8M4M-C510K/PS	208	255	0.45	0.78	0.75
	480	8M4M-C510K/PS	210	255	0.25	0.50	0.45
200 Watt M136	120	8M4.5M-C510K/PS	232	265	1.15	2.20	1.80
	208	8M4.5M-C510K/PS	232	265	0.65	1.25	1.25
	240	8M4.5M-C510K/PS	232	265	0.55	1.10	1.10
	277	8M4.5M-C510K/PS	232	265	0.49	0.95	0.90
	480	8M4.5D-C510K/PS	232	265	0.19	0.50	0.43

Wattage	Volts	Code	Input Watts	Open Circuit Voltage	Starting Current	Operating Current	Open Circuit Current
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Pulse Start Metal Halide (cont.)

250 Watt M138	120	8M5M-C510K/PS	294	280	1.20	2.60	2.50
	208	8M5M-C510K/PS	294	280	0.65	1.50	1.58
	240	8M5M-C510K/PS	294	280	0.60	1.30	1.25
	277	8M5M-C510K/PS	294	280	0.50	1.12	1.10
	480	8M5D-C510K/PS	270	260	0.21	0.57	0.48
320 Watt M132	120	8M5.4M-C510K/PS	365	265	3.30	3.25	1.60
	208	8M5.4M-C510K/PS	365	265	1.90	1.90	1.00
	240	8M5.4M-C510K/PS	365	265	1.60	1.65	0.80
	277	8M5.4M-C510K/PS	365	265	1.40	1.40	0.70
	480	8M5.4-R510K/PS	349	277	1.70	1.40	1.70
350 Watt M131	120	8M5.7M-C510K/PS	386	280	3.60	3.70	1.80
	208	8M5.7M-C510K/PS	386	280	2.10	2.10	1.10
	240	8M5.7M-C510K/PS	386	280	1.80	1.80	0.90
	277	8M5.7M-C510K/PS	386	280	1.60	1.60	0.80
	480	8M5.7D-C510K/PS	400	260	0.75	0.85	0.65
400 Watt M135	120	8M6M-C510K/PS	458	265	3.30	4.00	2.30
	208	8M6M-C510K/PS	458	265	1.90	2.30	1.90
	240	8M6M-C510K/PS	458	265	1.60	2.10	1.60
	277	8M6M-C510K/PS	458	265	1.40	1.80	0.90
	480	8M6D-C510K/PS	435	277	2.10	1.70	2.10
450 Watt M144	120	8M6.5M-C510K/PS	506	281	2.70	4.44	2.68
	208	8M6.5M-C510K/PS	506	281	1.56	2.56	1.67
	240	8M6.5M-C510K/PS	506	281	1.35	2.22	1.44
	277	8M6.5M-C510K/PS	506	281	1.17	1.92	1.25
	480	8M6.5D-C510K/PS	485	277	2.30	1.90	2.30
750 Watt M149	120	8M7M-C510K/PS	815	370	4.80	6.80	4.60
	208	8M7M-C510K/PS	815	370	2.80	4.00	2.60
	240	8M7M-C510K/PS	815	370	2.40	3.40	2.30
	277	8M7M-C510K/PS	815	370	2.10	3.00	2.00
	480	8M7D-C510K/PS	820	370	1.10	1.70	1.35
875 Watt M166	120	8M7.5M-C510K/PS	940	420	5.50	8.00	5.50
	208	8M7.5M-C510K/PS	940	420	3.20	4.50	3.20
	240	8M7.5M-C510K/PS	940	420	2.75	4.00	2.75
	277	8M7.5M-C510K/PS	940	420	2.40	3.45	2.40
	480	8M7.5D-C510K/PS	945	480	2.45	2.00	2.75

Wattage	Volts	Code	Input Watts	Open Circuit Voltage	Starting Current	Operating Current	Open Circuit Current
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High Pressure Sodium

35 Watt S76	120	850A-R010K	43	120	1.15	0.85	n/a
	120	850A-R510K	43	120	0.40	0.40	0.68
	240	8M4M-C500K	213	310	0.60	0.90	0.85
50 Watt S68	120	851A-R010K	60	120	1.50	1.18	n/a
	120	851A-R510K	60	120	0.68	0.54	0.90
	120	851M-H510K	64	120	0.58	0.58	1.24
	208	851M-H510K	64	120	0.35	0.33	0.60
	240	851M-H510K	64	120	0.31	0.29	0.52
	277	851M-H510K	64	120	0.25	0.25	0.45

70 watt S62	120	852A-R010K	83	120	2.10	1.60	n/a
	120	852A-R510K	83	120	0.90	0.75	1.30
	120	852M-H510K	94	120	0.90	0.82	1.40
	208	852M-H510K	94	120	0.50	0.48	0.83
	240	852M-H510K	94	120	0.44	0.41	0.72
	277	852M-H510K	94	120	0.35	0.36	0.62
	480	852D-H510K	94	120	0.21	0.20	0.34

100 Watt S54	120	853A-R010K	117	120	2.90	2.10	n/a
	120	853A-R510K	117	120	1.20	1.00	1.80
	120	853M-H510K	128	120	0.80	1.14	2.20
	208	853M-H510K	128	120	0.55	0.66	1.40
	240	853M-H510K	128	120	0.41	0.57	1.10
	277	853M-H510K	128	120	0.35	0.49	0.95
	480	853D-H510K	128	120	0.54		

150 Watt S55	120	854A-R010K	171	120	4.40	3.20	n/a
	120	854A-R510K	171	120	2.20	1.50	2.40
	120	854M-H511K	189	120	1.95	1.66	3.00
	208	854M-H511K	189	120	1.10	0.96	1.65
	240	854M-H511K	189	120	0.95	0.83	1.45
	277	854M-H511K	189	120	0.88	0.72	1.25
	480	854D-H511K	189	120	0.36	0.44	0.72

200 Watt S66	120	855M-C510K	230	175	1.30	2.00	0.78
	208	855M-C510K	230	175	0.75	1.20	0.50
	240	855M-C510K	230	175	0.64	1.00	0.40
	277	855M-C510K	230	175	0.56	0.88	0.34
	480	855D-C510K	245	175	0.31	0.55	0.24

250 watt S50	120	856M-C510K	300	185	1.75	2.50	1.65
	208	856M-C510K	300	185	1.00	1.43	0.90
	240	856M-C510K	300	185	0.85	1.25	0.80
	277	856M-C510K	300	185	0.75	1.10	0.75
	480	856D-C510K	285	200	0.36	0.62	0.38

400 Watt S51	120	857M-C510K	465	190	3.10	3.90	1.85
	208	857M-C510K	465	190	1.80	2.25	1.10
	240	857M-C510K	465	190	1.60	1.95	0.90
	277	857M-C510K	465	190	1.35	1.70	0.80
	480	857D-C510K	465	190	0.80	1.00	0.50

1000 Watt S52	120	859M-C510K	1100	440	5.00	9.50	6.10
	208	859M-C510K	1100	440	3.00	5.50	3.50
	240	859M-C510K	1100	440	2.60	4.80	3.10
	277	859M-C510K	1100	440	2.20	4.10	2.70
	480	859D-C510K	1100	440	1.30	2.40	1.50

Light Loss Factors

		LLF =	LLD x	LDD x	BF x	HFLA
HPS	High Pressure Sodium	.77	.90	.9	.95	1
MH	Metal Halide	.59	.69	.9	.95	1
PSMH	Pulse Start Metal Halide	.68	.80	.9	.95	1
EPSMH	Electronic PSMH	.85	.90	.9	1	1.05

Accent Lighting

Directional lighting to emphasize a particular object or area.

Amalgam

A mixture of mercury and other metals used in fluorescent and HID lamps to allow the lamps to have a stable light output over a wide range of temperatures and burning positions.

Ambient Lighting

General lighting, or lighting of the surrounding area.

American National Standards Institute (ANSI)

An organization which coordinates voluntary standards for the physical, electrical, and performance characteristics of lamps, ballasts, luminaires, and other lighting and electrical equipment.

Amperes (amps or A)

The unit of measurement of electric current. The equation for current related to voltage and power is as follows:
Current (amps) = Power (watts)/Voltage (volts).

Arc Discharge (in gas or vapor)

Electric current between two cathodes that produces light without a filament.

Ballast

Device used with fluorescent and HID lamps to provide necessary starting voltage and regulate the current during operation.

Ballast Factor (BF)

This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. Note that the "rated output" is sometimes measured on a reference ballast unlike ones that actually operate the lamp in the field.

Base

The end(s) of the lamp that inserts into lamp socket.

Beam Spread

The angle over which the intensity of the beam drops to 50% of its peak intensity. Measured in degrees.

British Thermal Units (BTUs)

Measurement of heat produced unit BTU, **BTUs per hour = Watts x 3.413**

Bulb

The glass outer envelope of a lamp.

Burning Position

The orientation in which a lamp is designed to be operated

C-UL US Listing Mark

Introduced by UL in 1998. Indicates compliance with both Canadian and US requirements.

Canadian Standards Association (CSA)

An organization that writes standards and tests lighting equipment for performance as well as electrical and fire safety. Canadian provincial laws generally require that all products sold for consumer use in Canada must have CSA or equivalent approval.

Candela

The unit of measure for intensity in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was used as a basis for evaluating the intensity of other light sources.

Candlepower (CP)

An obsolete term for the intensity of a light source in a given direction. **Unit candela, cd.**

Chromaticity

See *color temperature*.

Class "P" Ballast

A ballast containing a thermal protective device that deactivates the ballast when the case reaches a certain temperature. The device resets automatically when the case temperature returns to a specific temperature.

Color Rendering

The effect that the light has on the perceived color of objects.

Color Rendering Index (CRI)

A scale from 1-100 that describes how natural the color of objects will appear as compared to a standard light source (100 CRI). The standard is based on incandescent, halogen, and natural daylight.

Color Temperature

A term used to describe the "whiteness" of light. It is the measurement of a heated piece of metal in degrees Kelvin. **Unit Kelvin, K.**

Compact Fluorescent Lamp (CFL)

The general term applied to families of smaller diameter fluorescent lamps, the mounting of which are pin-based or have built-in ballasts and medium screw bases.

Cove Lighting

Lighting system comprising light sources shielded by a ledge or recess.

Dark Sky

The dark-sky movement is a campaign by people who want to reduce light pollution so people can see the stars, to reduce the effects of unnatural lighting on the environment, and to reduce energy usage.

Diffuser

Device used to alter the distribution of light in multiple directions.

Diffusion (scattering)

Change of the distribution of light when it is distributed in many directions by a surface or material.

Dimmer

A device in the electrical circuit for varying the light output from lamps.

Direct Lighting

Illumination which travels directly to an object or surface from the light source.

Directional Lighting

Lighting in which the light on the working plane or on an object is coming predominantly from one direction.

Discharge Lamp

Lamp in which the light is produced, directly or indirectly, by an electric arc through a gas, a metal vapor, or a mixture.

Discomfort Glare

Glare that causes discomfort, potentially impairing vision. Also known as Veiling Luminance.

Downlight (Can, High Hat)

Small luminaire that distributes the light downward; usually recessed in the ceiling.

Efficacy

Of a source. Efficacy is the rate at which lamp is able to convert electrical power (watts) into light (lumens), expressed as lumens per watt.

Efficiency

Often misused term in lighting to describe lumens per watt. **See efficacy.**

Electric Discharge

The passage of an arc through gases and vapors resulting in light.

Electromagnetic Spectrum

"Visible Light" - A continuum of radiation that can be characterized by wavelength. Visible light encompasses a small part of the electromagnetic spectrum in the region from about 380 to 770 nanometers.

Electronic Ballast

A solid-state equivalent to a magnetic (core-coil) ballast. Electronic ballasts typically operate lamps at frequencies in the range of 25 - 35 kHz.

Emergency Lighting

Lighting intended for temporary use during power failures.

Energy Policy Act (EPACT)

Comprehensive energy legislation passed by the US Congress in 1992 and 2005. The lighting portion includes lamp labeling and minimum energy efficacy (lumens/watt) requirements for many commonly used incandescent and fluorescent lamp types.

Flicker

Fluctuating brightness or color.

Floodlight

A fixture or lamp with a wide beam spread.

Fluorescent Lamp

A low-pressure mercury discharge lamp in which light is emitted by a layer of fluorescent phosphors excited by the ultraviolet radiation from the discharge.

Footcandle (FC)

One candela falling on one square foot.

Fuse

Safety device to prevent excess current flow.

General Lighting

Substantially uniform lighting of an area, excluding task lighting.

Glare

Condition of vision in which there is discomfort or a reduction in the ability to see due to direct or reflected light.

Group Relamping

An economical method of replacing all lamps at one time.

Halogen Lamp

Gas-filled lamp containing a tungsten filament and a portion of halogen gas to create the "halogen cycle" that redeposits evaporated tungsten onto the filament.

Heat

Measured in British Thermal Units (BTUs). *Unit BTUs per hour = Watts x 3.413.*

High frequency lumen adjustment factor (HFLA)

The multiplier used for compensating the electronic ballast lumen maintenance on the lamp.

High Intensity Discharge Lamps (HID)

HID lamps include groups of lamps known as Mercury Vapor, Metal Halide, and High Pressure Sodium.

High Pressure Sodium Lamps (HPS)

An HID lamp using metallic sodium and mercury in the discharge tube.

Hot Re-Strike Time

In HID lamps, the amount of time after a momentary power interruption to return of full light output. Ranges from 1-15 minutes or more, depending on lamp type and fixture.

Illuminance (E)

The amount of light striking a surface measured in footcandles or lux.

Illumination

The application of light.

Incandescent (electric) Lamp

Lamp in which light is produced by heating a filament by the passage of an electric current.

Indirect Light

The light received after reflection from other surfaces.

Indirect Lighting

Lighting by means of indirect light.

Instant-start Lamp

Fluorescent lamp designed to start without preheating of the electrodes.

IP Rating

Ingress Protection Rating. A rating given to a fixture to indicate fixture permeability by solids and liquids.

Kilowatt (Kw)

A measure of electrical power equal to 1000 watts.

Kilowatt-Hour (Kwh)

Unit of electrical power consumed over a period of time. One thousand watts used for one hour equals one kilowatt-hour. $Kwh = Watts/1000 \times hours$ used.

Lamp

An artificial source of light commonly referred to as a bulb.

Light Output

Amount of light produced by a light source such as a lamp. Measured in lumens or candlepower.

Lamp lumen depreciation (LLD)

The multiplier to be used in illumination calculations to relate the initial rated output of light sources to the anticipated minimum rated output based on the relamping program to be used.

Light loss factor (LLF)

A factor used in calculating illuminance after a given period of time and under given conditions. It takes into account lamp depreciation (LLD), dirt accumulation (LDD), ballast factor (BF) and high frequency lumen adjustment (HFLA).

Louvre, Louver

Shield made of translucent or opaque material and positioned to prevent lamps from being directly visible at or beyond a given angle.

Lumen

The unit of measure for the total amount of light from a light source. *Unit lumen, L.*

Luminaire

A fixture or apparatus that distributes, filters or transforms the light given by a lamp or lamps and includes all the items necessary for fixing and protecting these lamps and for connecting them to the supply circuit.

Luminaire dirt depreciation factor (LDD)

The multiplier to be used in illuminance calculations to relate the initial illuminance provided by clean, new luminaries to the reduced illumination that they will provide due to dirt collection on the luminaries at the time at which it is anticipated that cleaning procedures will be instituted.

Luminance (L)

In a given direction, the amount of light coming off of the surface. *Unit candela per square foot, cd/ft².*

Lux

Lumens per square meter.

Metal Halide Lamp

Discharge lamp that produces a white light with good color rendering and high efficacy.

Mortality Rate

The number of operating hours elapsed before a certain percentage of the lamps fail.

Mounting Height

The distance between fixtures and the work plane.

NSF

NSF International, formerly National Sanitation Foundation, is a not-for-profit, non-governmental organization that develops standards and provides product certification and education in the field of public health and safety.

Open Rated

Designation given to a Metal Halide lamp that includes an additional tube surrounding the primary discharge tube to contain glass and prevent lamp breakage during a violent failure.

Operating Current

Current in amps consumed by a lamp at rated wattage.

Operating Voltage

Voltage at rated wattage.

Parabolic

A concave surface capable of focusing or diffusing light.

Power Factor

The ratio of watts over volts multiplied by amperes.

Preheat Fluorescent Lamp

A lamp requiring a manual switch or a starter to preheat the electrodes.

Probe Start

A lamp that uses a secondary cathode to start the lamp. An arc is struck between a primary and secondary cathode (probe) that vaporizes metallic elements in the discharge tube reducing resistance between the primary cathodes allowing the arc stream to pass between the primary cathodes and starting the lamp. Mercury vapor and conventional metal halide lamps are probe start.

Pulse Start

An HID ballast with a high voltage ignitor to start the lamp. A term also applied to a type of metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate specifically on ballasts that have ignitors to help with lamp starting.

R Lamps

Reflectorized lamps available in and flood.

Rapid Start Fluorescent Lamp

A fluorescent lamp designed for operation with a ballast that provides a low-voltage winding for preheating the electrodes and initiating the arc without a starter or the application of high voltage.

Recessed Luminaire

Luminaire mounted so that any visible projection is insignificant.

Reflectance

Ratio in percent of the reflected light to the incident light on a surface.

Reflector Lamp

Lamp in which part of the bulb is coated with a reflective material.

Re-strike Time

The time it takes for a lamp to re-strike after a power interruption. In most HID lamps, if the lamp is at full brightness and the power is removed for even a split second, the lamp will extinguish and will have to cool down before it re-strikes, which can take between 1-15 minutes depending on lamp type, wattage and fixture variables. Fluorescent and incandescent lamps are unaffected.

Shielding

Structural surfaces intended to prevent direct view of the light source.

Spacing to Mounting Height Ratio (S/M)

The ratio of the distance between luminaire centers to the height above the work plane. Gives the maximum spacing of luminaires at which even illumination will be provided.

Spotlight

A projector giving concentrated light usually not more than 20° beam spread.

Standby Lighting

Emergency lighting that enables normal activities to continue.

Starter

Device for starting a fluorescent lamp that provides the necessary preheating of the electrodes.

Task Lighting

Illumination intended to provide acceptable light levels for area-specific activities.

Transformer

Device used to regulate voltage to a lamp.

Tungsten-Halogen Lamp

See *Halogen Lamp*

Underwriters' Laboratories (UL)

A private organization which tests and lists electrical (and other) equipment for electrical and fire safety according to recognized UL and other standards. A UL listing is not an indication of overall performance. Lamps are not UL listed except for compact fluorescent lamp assemblies - those with screw bases and built-in ballasts.

Uniformity

A measure of the variation of light over a given area expressed as either: 1) The ratio of the minimum to the maximum illuminance; or 2) The ratio of the minimum to the average illuminance.

Valance Lighting

Lighting system comprising light sources shielded by a panel parallel to the wall.

Warm-Up Time

The amount of time from ignition to 90% light output.

Watt (W)

The unit for measuring power.

Wavelength

Distance of a wave between two successive points at which the phase is the same.

Underwriter Laboratories (UL)

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Volt (V)

The unit for measuring electric potential. It defines the force or pressure of electricity.

20 Gauge	81	GCS/GVV Series 8" & 12" Square Canopy Lighters	212
Accent Cloud	104	GLX Series 12" Garage Lighter	216
Adjust-a-Bay Three-in-One Fluorescent High Bay	40	GR Series 11" & 15" Round Canopy Lighters	214
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BH Series Bull Horns	265	JTC Series TempLite™ Jobsite Fixture	168
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CF Series 12" & 16" Canopy Fixture	314	Latitude Louvered Industrial Fluorescent	50
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CHX 20 Gauge Slimline And High Output Channel	85	LJS Series 16" Low Bay	176
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Dusk to Dawn Yard Lites	246	Oak Drop Dish	98
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FAL Series 23" Square Automotive/Parking Floodlight	240	OV450 Wet Location Enclosed and Gasketed	59
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STSP Series Square Tapered Steel Poles	258	YTC (TEMP-O) Series Temporary Jobsite Fixture	174
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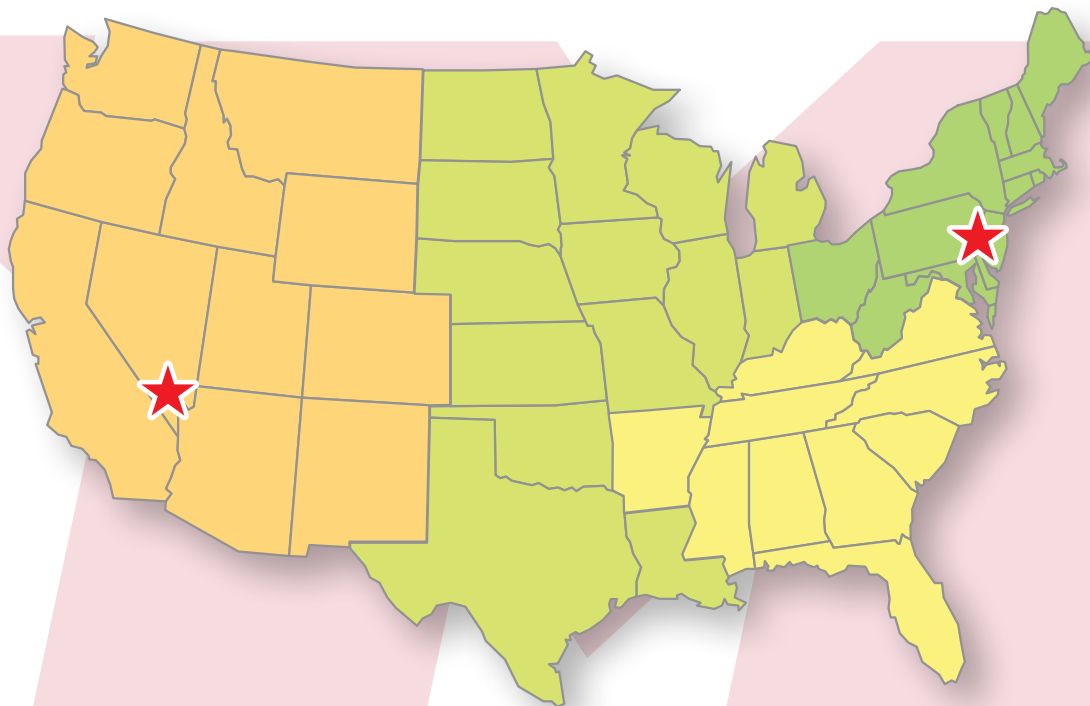
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