

Code•Master™ 2 HID Factory Sealed Floodlights

Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH. Mogul Base.

NEC:

Class 1, Division 1 and 2, Groups C, D
Marine Type Electric Fixtures
Outside Type (Salt Water)

CEC:

Class I, Division 1 and 2, Groups B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III
CSA 4X

Applications

- UL Listed for Marine Type Electric Fixtures Outside Type (Salt Water).
- Ideal in Class I, Division 1 and 2 installations in refineries, in pipeline transportation facilities, at drilling rigs and in production facilities on land and marine platforms.
- Class I, Division 1 areas include:
 - (1) enclosed derricks, mud tanks, desander-desilter, gas-operated control devices, oil-gas separation vessels, shale shakers and flowing or beam wells
 - (2) flowing or beam wells in open areas with cellar or below grade sump
 - (3) on refinery docks where tankers are loaded with hoses or loading arms
 - (4) in compressor buildings (open or enclosed) where methane gas is present
- Virtually all enclosed areas at drilling operations or refineries where ventilation is inadequate, or where a cellar or below grade sump exists, are Class I, Division 1.

Features

- Choice of mountings: (1) crossarm with degree indicator; (2) junction box for horizontal or vertical mount; and (3) swivel for pole mount (screws onto standard 2" pipe threads).
- Fixtures operate safely in high ambient temperatures. For example, in Class I areas the 150 W HPS unit operateSee page 1290 for classified area suitability.
- Arrangement of heat-producing components results in more efficient heat dissipation for cooler fixture operation.
- All threaded joints are flame-tight.
- Five threads are always fully engaged in an explosionproof manner.
- Factory sealed. External seals not required.
- Strategic location of lamp socket, in combination with the interior prism design of the glass globe, provides optimum light distribution and control.
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Superior corrosion resistance, with epoxy powder coat finish.
- Ballasts operate at low temperatures – PSMH: -29 °C (-20 °F); HPS: -40 °C (-40 °F).

Standard Materials

- Ballast housing, guard and junction box, and pole mounts: copperfree (4/10 of 1% max.) aluminum
- Crossarm mount: malleable iron
- Trunnion: steel.
- High bay reflector: aluminum
- Standard dome, deep dome and 30° angle reflectors: fiberglass reinforced polyester
- Socket: porcelain
- Screw shell: nickel-plated phosphor bronze

Standard Finishes

- Ballast housing, guard, trunnion and mounting accessories: epoxy-clad finish. Powder coat baked finish, electrostatically applied for complete, uniform corrosion protection



Shown with Optional High Bay Reflector

Effective Protected area: 1.8 Square Feet

Options

- Fuses for field installation are ordered by catalog number from the fuse kit table
- Quartz Auxiliary Emergency Lamp for PSMH and HPS fixtures. Relay switch installed fixture. Add suffix **-E** to fixture catalog number.
- Hot Restrike Option available for 150 W HPS. Add suffix **-R**.
- Smart Starter. Add suffix **-S**

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

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Classified Area Suitability — Suitability includes use of reflector

Lamp Type	Lamp Watts	Supply Wire °C (°F)	Ambient Temp °C (°F)	Class I, Division 1 and 2 With Globe or with Globe and Reflector UL/NEC/CEC Temp. Ident. No.			Class II, Division 1 and 2 With Globe or with Globe and Reflector CEC Temp. Ident. No.	
				Nameplate Marking	NEC Groups	CEC Groups	Nameplate Marking	CEC Groups
High Pressure Sodium	150	50 (122)	40 (104)	T5	C,D	B, C, D	T3A	E,F
	150	75 (167)	55 (131)	—	C,D	B, C, D	T3	—
	250	75 (167)	40 (104)	T4	C,D	B, C, D	—	—
	250	75 (167)	55 (131)	—	C,D	B, C, D	—	—
	400	85 (185)	40 (104)	T3A	C,D	B, C, D	—	—
Pulse Start Metal Halide	175	75 (167)	40 (104)	T3B	C,D	B, C, D	T3C	E,F,G
	250	75 (167)	40 (104)	T3B	C,D	B, C, D	T3A	E,F
	320	75 (167)	40 (104)	T3	C,D	B, C, D	—	—
	350	75 (167)	40 (104)	T3	C,D	B, C, D	—	—
	400	75 (167)	40 (104)	T3	C,D	B, C, D	—	—
Metal Halide ①	175	75 (167)	40 (104)	T4	—	B, C, D	T3C	E, F, G
	250	75 (167)	40 (104)	T4	—	B, C, D	T3A	E, F
	400	75 (167)	40 (104)	T3C	—	B, C, D	—	—

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

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Appleton

HID/FLOODLIGHT: NEC/CEC EXPLOSIONPROOF

	Lamp Watts	ANSI Lamp Type		Catalog Number ①③	
		HPS	PSMH	HPS	PSMH
Fixture Unit					
Furnished with Trunnion 3/4" hub. (3/4 – 14 NPT)					
	150	S55	M102	CFL150MT	CFP150MT
	175	—	M137/M152	—	CFP175MT
	250	S50	M138/M153	CFL250MT	CFP250MT
	320	—	M145	—	CFP320MT
	350	—	M131	—	CFP350MT
	400	S51	M135/M155	CFL400MT	CFP400MT
Fixture Unit with Junction Box for Horizontal or Vertical Mounting ②					
3/4" fixture hub and two conduit openings (3/4 – 14 NPT). 30" Flexible Coupling connects to 3/4" fixture hub and to 1/2" junction box opening. Furnished with one 3/4" Close-up Plug. Has Locking Screw for horizontal adjustment.					
	150	S55	M102	CFL150JBMT	CFP150JBMT
	175	—	M137/M152	—	CFP175JBMT
	250	S50	M138/M153	CFL250JBMT	CFP250JBMT
	320	—	M145	—	CFP320JBMT
	350	—	M131	—	CFP350JBMT
	400	S51	M135/M155	CFL400JBMT	CFP400JBMT
Fixture Unit with Pole-Top Mount (on 2" Threaded Pipe) ②					
2" tapered threads (2 – 11-1/2 NPT). Locking Screw for horizontal adjustment. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to 1/2" pole-top opening (1/2-14 NPT).					
	150	S55	M102	CFL150SFMT	CFP150SFMT
	175	—	M137/M152	—	CFP175SFMT
	250	S50	M138/M153	CFL250SFMT	CFP250SFMT
	320	—	M145	—	CFP320SFMT
	350	—	M131	—	CFP350SFMT
	400	S51	M135/M155	CFL400SFMT	CFP400SFMT
Fixture Unit with Crossarm Mounting ②					
For mounting to flat surface. 180° horizontal adjustment with degree indicator. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to any 1/2" opening (1/2 – 14 NPT).					
	150	S55	M102	CFL150CAMT	CFP150CAMT
	175	—	M137/M152	—	CFP175CAMT
	250	S50	M138/M153	CFL250CAMT	CFP250CAMT
	320	—	M145	—	CFP320CAMT
	350	—	M131	—	CFP350CAMT
	400	S51	M135/M155	CFL400CAMT	CFP400CAMT

① To order fixture with guard, add suffix **-G** before voltage suffix.

② Fixtures furnished with trunnion and bolts, flexible coupling and fittings, and mounting accessory. The trunnion provides vertical adjustment and the mounting accessory provides horizontal adjustment.

③ Change suffix **-MT** (120/208/240/277 V) to **-480** for 480 V.





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Lamp Watts	ANSI Lamp Type			Catalog Number ①③			
	HPS	PSMH	MH	HPS	PSMH	MH	
Fixture Unit							
Furnished with Trunnion 3/4" hub. (3/4 – 14 NPT)							
	150	S55	M102	—	CFL150TTCN	CFP150TTCN	—
	175	—	M137/M152	M57/H39	—	CFP175TTCN	CFH175TTCN
	250	S50	M138/M153	M58/H37	CFL250TTCN	CFP250TTCN	CFH250TTCN
	320	—	M145	—	—	CFP320TTCN	—
	350	—	M131	—	—	CFP350TTCN	—
	400	S51	M135/M155	M59/H33	CFL400TTCN	CFP400TTCN	CFH400TTCN
Fixture Unit with Junction Box for Horizontal or Vertical Mounting ②							
3/4" fixture hub and two conduit openings (3/4 – 14 NPT). 30" Flexible Coupling connects to 3/4" fixture hub and to 1/2" junction box opening. Furnished with one 3/4" Close-up Plug. Has Locking Screw for horizontal adjustment.							
	150	S55	M102	—	CFL150JBTTCN	CFP150JBTTCN	—
	175	—	M137/M152	M57/H39	—	CFP175JBTTCN	CFH175JBTTCN
	250	S50	M138/M153	M58/H37	CFL250JBTTCN	CFP250JBTTCN	CFH250JBTTCN
	320	—	M145	—	—	CFP320JBTTCN	—
	350	—	M131	—	—	CFP350JBTTCN	—
	400	S51	M135/M155	M59/H33	CFL400JBTTCN	CFP400JBTTCN	CFH400JBTTCN
Fixture Unit with Pole-Top Mount (on 2" Threaded Pipe) ②							
2" tapered threads (2 – 11-1/2 NPT). Locking Screw for horizontal adjustment. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to 1/2" pole-top opening (1/2-14 NPT).							
	150	S55	M102	—	CFL150SFTTCN	CFP150SFTTCN	—
	175	—	M137/M152	M57/H39	—	CFP175SFTTCN	CFH175SFTTCN
	250	S50	M138/M153	M58/H37	CFL250SFTTCN	CFP250SFTTCN	CFH250SFTTCN
	320	—	M145	—	—	CFP320SFTTCN	—
	350	—	M131	—	—	CFP350SFTTCN	—
	400	S51	M135/M155	M59/H33	CFL400SFTTCN	CFP400SFTTCN	CFH400SFTTCN
Fixture Unit with Crossarm Mounting ②							
For mounting to flat surface. 180° horizontal adjustment with degree indicator. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to any 1/2" opening (1/2 – 14 NPT).							
	150	S55	M102	—	CFL150CATTN	CFP150CATTN	—
	175	—	M137/M152	M57/H39	—	CFP175CATTN	CFH175CATTN
	250	S50	M138/M153	M58/H37	CFL250CATTN	CFP250CATTN	CFH250CATTN
	320	—	M145	—	—	CFP320CATTN	—
	350	—	M131	—	—	CFP350CATTN	—
	400	S51	M135/M155	M59/H33	CFL400CATTN	CFP400CATTN	CFH400CATTN

① To order fixture with guard, add suffix **-G** before voltage suffix.

② Fixtures furnished with trunnion and bolts, flexible coupling and fittings, and mounting accessory. The trunnion provides vertical adjustment and the mounting accessory provides horizontal adjustment.

③ Change voltage suffix **-TT** (120/277/347 V) to **-MT** for 120/208/240/277 V, **-C2** for 208 V, **-C3** for 240 V, **-C6** for 480 V, or **-C7** for 600 V.








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	Description	Catalog Number
	<p>Box has 1/2" opening for threading to Flexible Coupling, and two 3/4" conduit openings (3/4 – 14NPT) and is furnished with one 3/4" close-up plug. Locking screw for horizontal adjustment. Trunnion bolts furnished. Aluminum, gray epoxy finish.</p>	<p>AF-JB</p>
<p>Pole-Top Mount (on 2" Threaded Pipe)</p> 	<p>Threads onto 2" pipe with tapered threads (2-11 – 1/2 NPT). Includes floodlight trunnion bolts. Locking screw for horizontal floodlight adjustment. Aluminum, gray epoxy finish.</p>	<p>AF-SF</p>
<p>Crossarm Mounting Bracket</p> 	<p>Has 180° horizontal adjustment – degree-marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB Pole/Wall Mounting Bracket (see photo below). Includes floodlight trunnion bolts. Malleable iron, plated, chromate sealed, architectural bronze EPOXY finish.</p>	<p>G-AM-8-CA</p>
<p>Polyester Reflectors – 150 W through 400 W</p> 	<p>Standard Dome Deep Dome 30° Angle</p>	<p>CMR-4ST CMR-4DD CMR-4AN</p>
<p>Aluminum High Bay Reflectors – 150 W through 400 W</p> 		<p>CMR-4HB</p>
<p>Flexible Coupling – 30" Long</p> 	<p>Connects to 3/4" Fixture Unit hub (3/4 – 14 NPT) and to 1/2" Junction Box or Pole-Top Accessory opening (1/2 – 14 NPT).</p>	<p>AF-EXL</p>
<p>Quartz Emergency Lamp for Pulse Start Metal Halide and High Pressure Sodium Fixtures Fixtures can be supplied with a socket to accept a 150 W or 250 W, 120 V quartz lamp. This D.C. bayonet base socket is in addition to the standard lamp socket, independent of the lighting fixture voltage.</p>		
<p>HPS Smart Hot Restrike Smart Hot Restrike will immediately restrike an HPS lamp when power is restored after a momentary power interruption. The smart function removes the hot restrike ignitor from the circuit if the lamp burns out or is removed from the socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location, reducing maintenance and repair costs.</p>		<p>Add Suffix -E</p>
<p>Optional for 150 W fixtures (HPS only)</p>		<p>Add Suffix -SR</p>
<p>HPS Hot Restrike Restrikes HPS lamp immediately when power is restored after a momentary power interruption.</p>		<p>Add Suffix -R</p>
<p>Optional for 150 W fixtures (HPS only)</p>		<p>Add Suffix -R</p>
<p>HPS Smart Starter Smart Starter for HPS and PSMH fixtures. Incorporates a 1-1/2-minute timer and performs as a conventional starter to normally start lamp. Removes itself from circuit if lamp burns out or is removed from socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location, reducing maintenance and repair costs.</p>		
	<p>Optional for all fixture watts G-AM-8-CA Crossarm Mounting Bracket Shown with G-AM-8-WB Pipe/Wall Mounting Bracket. The G-AM-8-WB bracket is not furnished with fixtures.</p>	<p>Add Suffix -S</p>

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Lamp	Watts	Volts	Ballast Amps						Fuse Quantity Required	Fuse Kit Catalog Number		
			High Pressure Sodium ①		Pulse Start Metal Halide Super CWA		Metal Halide CWA			HPS	PSMH	MH ②
			Start	Operating	Start	Operating	Start	Operating				
150	120		2.00	1.66	—	—	—	—	1	CF-10	—	—
	208		1.16	0.96	—	—	—	—	2	CF-5	—	—
	240		1.00	0.83	—	—	—	—	2	CF-5	—	—
	277		0.88	0.75	—	—	—	—	1	CF-5	—	—
	347		0.52	0.56	—	—	—	—	1	CF-5	—	—
	480		0.50	0.44	—	—	—	—	2	CF-3	—	—
175	120		—	—	1.10	1.86	1.30	1.80	1	—	CF-5	CF-5
	208		—	—	0.75	1.23	0.75	1.10	2	—	CF-3	CF-3
	240		—	—	0.65	0.98	0.65	0.90	2	—	CF-3	CF-3
	277		—	—	0.55	0.87	0.55	0.80	1	—	CF-2	CF-2
	347		—	—	0.25	0.65	0.50	0.65	1	—	CF-2	CF-2
	480		—	—	0.25	0.50	—	—	2	—	CF-2	—
250	120		1.75	2.70	1.96	2.50	1.20	2.60	1	CF-8	CF-8	CF-8
	208		1.00	1.50	1.13	1.45	0.65	1.50	2	CF-5	CF-5	CF-5
	240		0.85	1.30	0.98	1.25	0.60	1.30	2	CF-5	CF-5	CF-5
	277		0.75	1.15	0.85	1.10	0.50	1.12	1	CF-5	CF-3	CF-3
	347		0.60	0.93	0.62	0.90	0.80	0.90	1	CF-5	CF-3	CF-3
	480		0.40	0.65	0.32	0.67	—	—	2	CF-2	CF-2	—
320	120		—	—	3.30	3.25	—	—	1	—	CF-8	—
	208		—	—	1.90	1.90	—	—	2	—	CF-6	—
	240		—	—	1.60	1.65	—	—	2	—	CF-5	—
	277		—	—	1.40	1.40	—	—	1	—	CF-5	—
	347		—	—	0.70	1.10	—	—	1	—	CF-5	—
	480		—	—	0.45	0.85	—	—	2	—	CF-3	—
350	120		—	—	3.60	3.70	—	—	1	—	CF-10	—
	208		—	—	2.10	2.10	—	—	2	—	CF-8	—
	240		—	—	1.80	1.80	—	—	2	—	CF-5	—
	277		—	—	1.60	1.60	—	—	1	—	CF-5	—
	347		—	—	0.70	1.01	—	—	1	—	CF-5	—
	480		—	—	0.60	0.90	—	—	2	—	CF-3	—
400	120		3.10	3.90	3.50	4.00	3.25	4.00	1	CF-15	CF-10	CF-10
	208		1.80	2.25	2.00	2.30	1.90	2.30	2	CF-8	CF-8	CF-8
	240		1.60	1.95	1.75	2.00	1.65	2.00	2	CF-5	CF-5	CF-5
	277		1.35	1.70	1.50	1.75	1.40	1.75	1	CF-5	CF-5	CF-5
	347		1.00	1.32	1.10	1.35	1.20	1.40	1	CF-5	CF-5	CF-5
	480		0.80	1.00	0.75	1.00	—	—	2	CF-5	CF-3	—

Fuse Kit includes fuse, fuse holder and necessary hardware for field installation. Mounts easily in ballast body with one screw. Order one fuse for 120 and 277 V, and 2 fuses for 208, 240 and 480 V. CF-2 = 2 amp; CF-3 = 3 amp; CF-5 = 5 amp; CF-6 = 6 amp; CF-8 = 8 amp; CF-10 = 10 amp

① 50 through 150 W HPS have H.P.F. High Reactance ballasts; 250 W and 400 W HPS have CWA ballasts.

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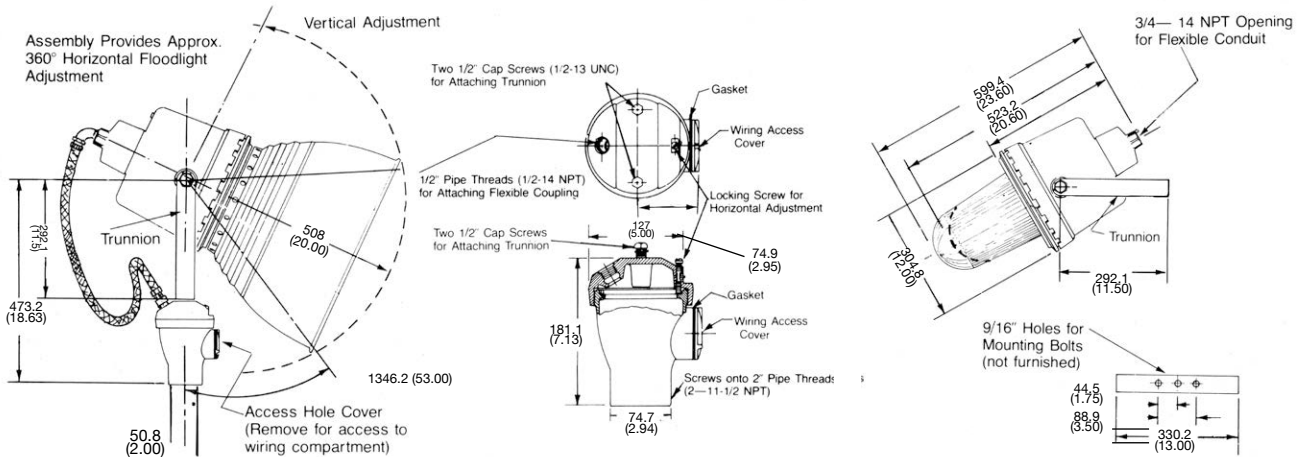
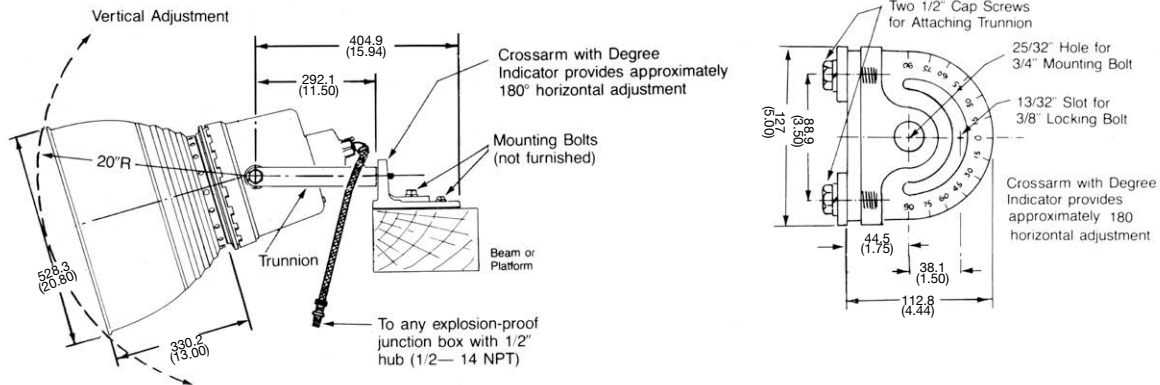
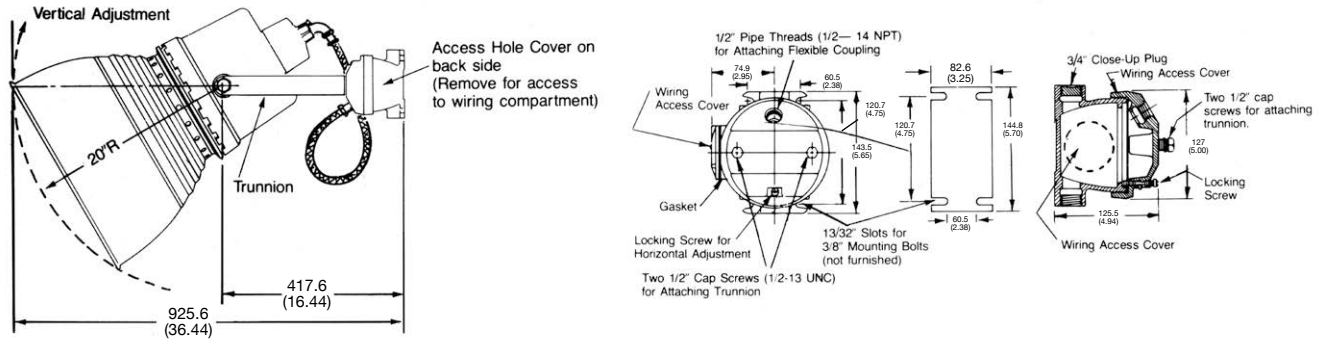
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Dimensions in Millimeters (Inches)



Weights kg (lb)

150 W	175 W	250 W	320 W	350 W	400 W
21 (46.30)	21 (46.30)	32 (70.55)	32 (70.55)	32 (70.55)	32 (70.55)

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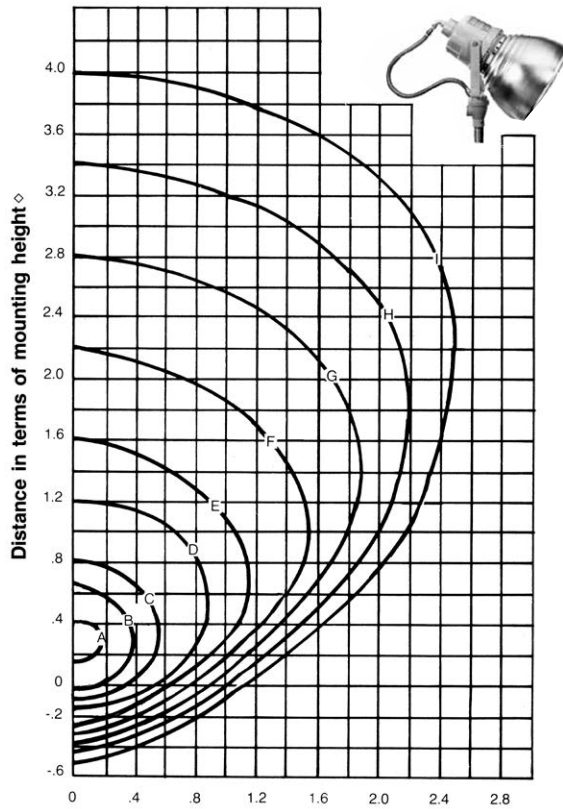
Typical Footcandle Values for Iso-Footcandle Curves. Data Based on 400 W HPS (50,000 Lumens) Clear Mogul Base Lamps.

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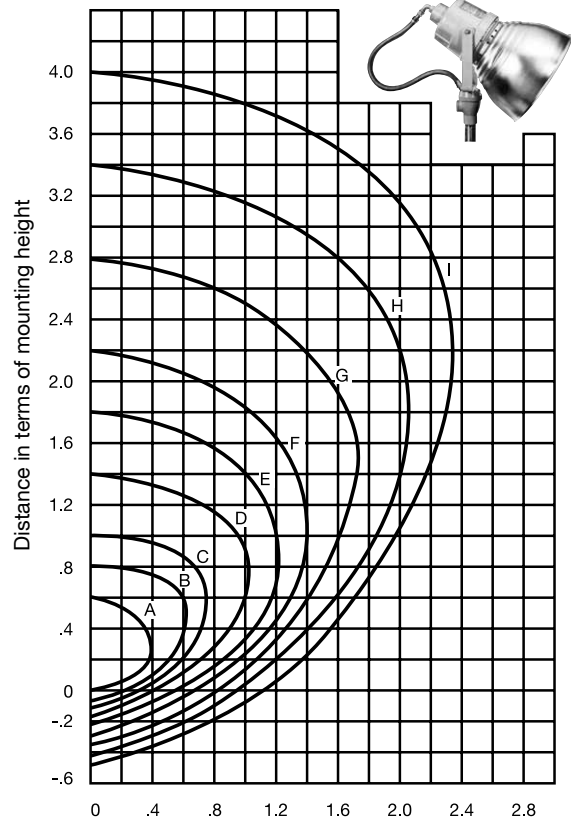
Photometric Data

400 W HPS Floodlight at 45° Angle with High Bay Reflector ①

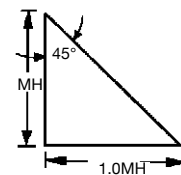
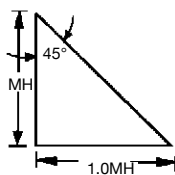


Mounting Height (feet)	FOOTCANDLE VALUES FOR ISO-FOOTCANDLE CURVES								
	A	B	C	D	E	F	G	H	I
15	52.52	43.34	31.00	17.05	10.23	4.77	2.43	1.36	0.84
20	29.54	24.38	17.44	9.59	5.75	2.68	1.37	0.77	0.47
25	18.91	15.60	11.16	6.14	3.68	1.72	0.87	0.49	0.30
30	13.13	10.84	7.75	4.26	2.56	1.19	0.61	0.34	0.31
35	9.65	7.96	5.69	3.13	1.88	0.88	0.45	0.25	0.15
40	7.39	6.10	4.36	2.40	1.44	0.67	0.34	0.19	0.12

400W MH Floodlight at 45° Angle with High Bay Reflector



Mounting Height (feet)	FOOTCANDLE VALUES FOR ISO-FOOTCANDLE CURVES								
	A	B	C	D	E	F	G	H	I
15	33.97	22.10	16.12	9.69	6.40	4.12	2.13	1.13	.67
20	19.11	12.43	9.07	5.45	3.60	2.31	1.20	.64	.38
25	12.23	7.96	5.80	3.49	2.30	1.48	.77	.41	.24
30	8.49	5.52	4.03	2.42	1.60	1.03	.53	.28	.17
35	6.24	4.06	2.96	1.78	1.18	.76	.39	.21	.12
40	4.78	3.11	2.27	1.36	.90	.58	.30	.16	.10



① For 250 Watt HPS Clear, 30,000 Lumen lamp, multiply all FTC values by 0.60.