



Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

# 6" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC22LED (G4 14LM) RECESSED HOUSING

**OPEN TRIMS**

## PRODUCT DESCRIPTION

Dedicated LED, Air-Loc<sup>®</sup> sealed new construction housing with integral light engine

- Housing allows for fit in 2 x 8 construction
- Can be completely covered with insulation
- Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets
- LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims
- 5 year limited warranty on LED components.

## ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 120W PAR38, BR40 incandescent or 32W compact fluorescent

## PRODUCT SPECIFICATIONS

**LED Light Engine** LED array integrated to thermally conductive housing provides uninterrupted heat transfer to ensure long life of the LED

- Replaceable light engine mounts directly to housing and incorporates the latest generation, high lumen output LED array
- LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR<sup>®</sup> requirements for superior fixture to fixture color uniformity
- 2700K, 3000K, 3500K, or 4000K color temperatures available
- 90 CRI minimum.

**Optical System** Computer-optimized reflector design with high reflectance white finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance

- Deep regression of lens produces a low glare, efficient system that produces 1400 lumens typical with select trims
- Wide flood distribution shipped as standard with optional optic accessories available and sold separately.

**Aesthetic Trim Selections** Compatible with wide selection of existing Juno trims

- Shadow free, knife edge design blends seamlessly into ceiling.

**LED Driver** Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) drivers that accommodate input voltages from 120-277 volts AC at 50/60Hz

- Power factor > 0.9 at 120V input
- 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers
- Universal voltage drivers are dimmable with the use of most 0-10V wall box dimmers
- For a list of compatible dimmers, see [JUNOICLED-DIM](#)

**Life** Rated for 50,000 hours at 70% lumen maintenance.

**Labels** ENERGY STAR<sup>®</sup> Certified when used with select baffle and cone trims

- Certified to the high efficacy requirements of California T24 JA8-2016 with select trims
- UL listed for U.S. and Canada, through-branch wiring and damp locations
- Union made
- UL and cUL.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Specifications subject to change without notice.

## HOUSING FEATURES

**Housing** Designed for use in IC (insulated ceiling) or non-IC construction

- Aluminum housing sealed for Air-Loc<sup>®</sup> compliance
- Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (6) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

- UL listed and cUL listed for through-branch wiring, maximum 8 #12 branch circuit conductors
- Junction box provided with removable access plates
- Knockouts equipped with pryout slots
- Quick connect electrical connectors supplied as standard for fast, secure installation.

**Mounting Frame** 22-gauge die-formed galvanized steel mounting frame

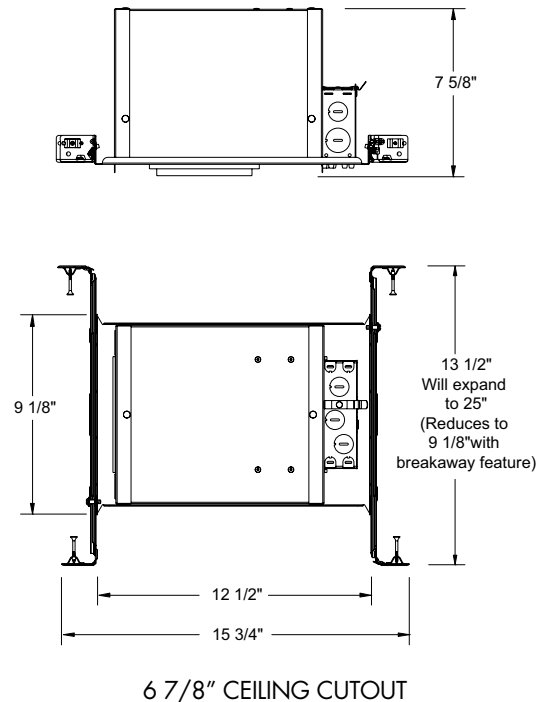
- Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

**Real Nail 3 Bar Hangers** Patented (US Patent D552,969) Real Nail<sup>®</sup> 3 bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings

- Includes removable nail for repositioning of fixture in wood joist construction
- Integral T-bar notch and clip for suspended ceilings.



## DIMENSIONS



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## ELECTRICAL DATA

### Dedicated 120V Only Driver Option (120 FRPC)

120V	
Input Power	17.4W (+/-5%)
Input Current	0.15A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-25°C

## ELECTRICAL DATA

### Universal Voltage

	MVOLT EZ10 and EZ1		MVOLT ZT10 and ZT1	
	120V	277V	120V	277V
Input Power	15.6W (+/-5%)	16.3W (+/-5%)	15.6W (+/-5%)	16.3W (+/-5%)
Input Current	0.13A	0.06A	0.13A	0.06A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-20°C	-20°C	-20°C	-20°C

## ORDERING INFORMATION

Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC22LED G4 14LM 27K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage/Driver
IC22LED 6" LED New Construction Downlight	G4 Generation 4	14LM 1400 Nominal Lumens	27K 2700K	90CRI 90+ CRI	120 FRPC 120V Forward/Reverse Phase Cut, 5% dim
			30K 3000K		MVOLT ZT10 Multi-Volt (120-277), 0-10V, 10% dim
			35K 3500K		MVOLT ZT1 Multi-Volt (120-277), 0-10V, 1% dim
			40K 4000K		MVOLT EZ10 Multi-Volt (120-277), eidoLED 0-10V, 10% dim
					MVOLT EZ1 Multi-Volt (120-277), eidoLED 0-10V, 1% dim



A+ Capable options indicated by this color background

## Trim/Description

	<b>24 BABZ</b>	Downlight Tapered Black Baffle, Classic Aged Bronze Trim Ring		<b>9024 WWH</b>	White Octagonal w/ White Baffle
	<b>24 BBL</b>	Downlight Tapered Black Baffle, Black Trim Ring		<b>9324 SC</b>	Luminous Disk (Frosted)
	<b>24 BWH</b>	Downlight Tapered Black Baffle, White Trim Ring		<b>9524 SC</b>	Chrome Band
	<b>24 WWH</b>	Downlight Tapered White Baffle, White Trim Ring		<b>9702</b>	Luminous Collar (Frosted)
	<b>27 BWH</b>	Downlight Tapered Black Cone, White Trim Ring			
	<b>27 CWH</b>	Downlight Tapered Clear Cone Alzak®, White Trim Ring			
	<b>27 GWH</b>	Downlight Tapered Gold Cone, White Trim Ring			
	<b>27 HZWH</b>	Downlight Tapered Haze Cone, White Trim Ring			
	<b>27 PTSC</b>	Downlight Tapered Pewter Cone, Satin Chrome Trim Ring			
	<b>27 WHZABZ</b>	Downlight Tapered Wheat Haze Cone, Classic Aged Bronze Trim Ring			
	<b>27 WHZWH</b>	Downlight Tapered Wheat Haze Cone, White Trim Ring			
	<b>27 WWH</b>	Downlight Tapered White Cone, White Trim Ring			

Trim Size: 24, 27, 9324, 9524 - 7 $\frac{1}{8}$ " O.D.; 9702 - 7 $\frac{3}{4}$ " O.D.; 9024 - 8" O.D.

Alzak is a registered trademark of Alcoa Corp.

Note: In Canada when insulation is present, Type IC fixtures must be used.

<sup>1</sup> ENERGY STAR® Certified and T24 certified

## Accessories (ordered separately)

Catalog Number	Description
LEDOPTIC3 MFL	Medium Flood Optic (50°)
LEDOPTIC3 NFL	Narrow Flood Optic (37°)
LEDOPTIC3 SP	Spot Optic (10°)

To order, specify catalog number.

Catalog Number	Description
TR6 ABZ	6" Trim Ring - Classic Aged Bronze
TR6 BL	6" Trim Ring - Black
TR6 SC	6" Trim Ring - Satin Chrome
TR6 WH	6" Trim Ring - White

To order, specify catalog number.

\*TR6 available for 24 and 27 trim series only

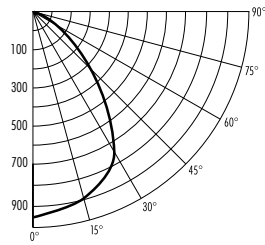
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## PHOTOMETRICS

### PHOTOMETRIC REPORT

Test Report #: PT10141507R  
Catalog No: IC22LED G4 14LM 35K with  
24 WWH Trim and standard wide flood optic  
Luminaire Spacing Criterion: 1.18  
Luminaire LPW: 92



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	956
5	949
15	898
25	811
35	650
45	307
55	135
65	65
75	38
85	10
90	0

Multiplier: 27K - 0.93  
30K - 0.97  
40K - 1.02

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)  
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	108	88	74
5.0'	69	56	47
6.0'	48	39	33
7.0'	39	32	27
8.0'	31	25	21
9.0'	23	19	16
10.0'	17	14	12

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	716	N/A	44.8
0-40°	1113	N/A	69.7
0-60°	1481	N/A	92.7
0-90°	1598	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 17.4W, 80.3° Beam)

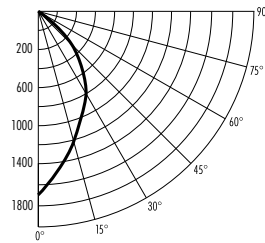
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	59.8	6.7'
6	26.6	10.1'
8	14.9	13.5'
10	9.6	16.9'

### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average Luminance
45	25776
55	13943
65	9155
75	8740
85	6595

### PHOTOMETRIC REPORT

Test Report #: 25978R  
Catalog No: IC22LED G4 14LM 35K with  
27 CWH Trim and standard wide flood optic  
Luminaire Spacing Criterion: 0.78  
Luminaire LPW: 98



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1696
5	1589
15	1206
25	946
35	677
45	323
55	103
65	21
75	0
85	0
90	0

Multiplier: 27K - 0.93  
30K - 0.97  
40K - 1.02

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)  
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	117	98	84
5.0'	75	63	54
6.0'	52	44	37
7.0'	42	35	30
8.0'	33	28	24
9.0'	26	21	18
10.0'	19	16	13

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	918	N/A	53.8
0-40°	1336	N/A	78.3
0-60°	1684	N/A	98.7
0-90°	1707	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 17.4W, 58° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	106.0	4.4'
6	47.1	6.7'
8	26.5	8.9'
10	17.0	11.1'

### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average Luminance
45	27283
55	10684
65	2947
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.