JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 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, RoHS compliant

PRODUCT SPECIFICATIONS

LED Light Engine LED array attached to high purity aluminum, thermally conductive inner housing provides superior heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to inner housing assembly and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 35'00K, or 4000K color temperatures available • 90 CRI minimum

Optical System Two field interchangeable optics available in medium flood (45° beam angle) and wide flood (65° beam angle) • Computeroptimized reflector design with high reflectance 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.

Aesthetic Trim Selections Die cast aluminum square downlight, pinhole and lensed trim options • Downlight and pinhole trims feature black insert to minimize glare at the aperture.

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 <u>JUNOICLED-DIM</u> • Mounted inside housing for easy access from below ceiling.

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

Labels ENERGY STAR® Certified when used with select trims • Can be used to comply with 2019 Title 24, Part 6, JA8 high efficacy LED light source requirements with select trims • UL listed for U.S. and Canada through-branch wiring, damp locations •12SQ trim listed for wet location (covered ceiling) • Union made • UL and cUL • CP option is compatible with spray foam insulation with an R-value of 3.2 per inch or less.

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

Specifications subject to change without notice.

HOUSING FEATURES

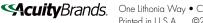
Housing Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc[®] compliance • Housing is vertically adjustable to accommodate up to a 1½" ceiling thickness.

Junction Box Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 4 #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® 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.

Nominal input wattage @ 120-volt operation with dedicated 120-volt driver under stable operating conditions.

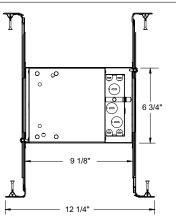


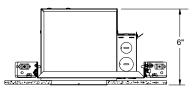




SQUARE TRIMS

DIMENSIONS





4 1/2" CEILING CUTOUT

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SQUARE TRIMS

4" IC 900 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION** IC1LED (G4 09LM) RECESSED HOUSING

ELECTRICAL DATA

ELECTRICAL DATA

Dedicated 120V Only Driver Option (120 FRPC)				
	120V			
Input Power	11.6W (+/-5%)			
Input Current	0.10A			
Frequency	50/60Hz			
EMI/RFI	FCC Title 47 CFR, Part 15,			
	Class B (residential)			
Minimum starting temp	-25°C			

Universal Voltage						
	MVOLT EZ	10 and EZ1	MVOLT ZT10 and ZT1			
	120V	277V	120V	277V		
Input Power	11.2W (+/-5%)	12.2W (+/-5%)	11.2W (+/-5%)	12.2W (+/-5%)		
Input Current	0.10A	0.05A	0.10A	0.05A		
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: IC1LED G4 09LM 27K 90CRI 120 FRPC

Series		Gene	ration	Lumens		Color	Temperature	CRI		Distribut	ion
IC1LED	4" LED IC New Construction Downlight	G4	Generation 4	09LM	900 Nominal Lumens	27K	2700K	90CRI	90+ CRI	(blank)	Medium Flood (45°)
						30K	3000K			WFL	Wide Flood (65°)
						35K	3500K				
						40K	4000K				

Voltage/Driv	er	Terri	itory
120 FRPC	120V Forward/Reverse Phase Cut, 5% dim	CP	Chicago Plenum
MVOLT ZT10	Multi-Volt (120-277), 0-10V, 10% dim		
MVOLT ZT1	Multi-Volt (120-277), 0-10V, 1% dim		
MVOLT EZ10	Multi-Volt (120-277), eldoLED 0-10V, 10% dim		
MVOLT EZ1	Multi-Volt (120-277), eldoLED 0-10V, 1% dim		

Trim/Description



4" Square Downlight Trim - Black, White Trim Flange

- 4" Square Downlight Trim Haze, White Trim Flange 17SQ WHZWH³
 - 4" Square Downlight Trim Wheat Haze, White Trim Flange
 - 4" Square Downlight Trim White, White Trim Flange



4" Square Pinhole Trim - White





4" Sqaure Frosted Lens with Clear Center Trim - White, White Trim Flange

Trim Size: 5" O.D. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

17SQ BWH³

17SQ HZWH²

17SQ WWH¹

13SQ WH

¹ ENERGY STAR[®] Certified and T24 certified with 120 driver for 30K, 35K and 40K ² ENERGY STAR[®] Certified with 120 driver for 30K, 35K and 40K ³ Not ENERGY STAR[®] Certified or T24 certified

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4" IC 900 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

IC1LED (G4 09LM) RECESSED HOUSING

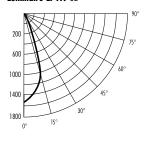
SQUARE TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT03141204R Catalog No: ICILED G4 09LM 35K 90CRI 120 with 17SQ HZWH Trim

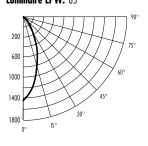
Luminaire Spacing Criterion: 0.62 Luminaire LPW: 62



PHOTOMETRIC REPORT

Test Report #: PT03141206R Catalog No: ICILED G4 09LM 35K 90CRI 120 with 12SQ WWH Trim

Luminaire Spacing Criterion: 0.58 Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas) Degrees

Vertical 0 1543 1486 1015 15 25 355 35 85 45 31 55 13 65 3 75 0 85 0 90 0 Multiplier: 27K - 0.89

30K - 0.94 40K - 1.03

CANDLEPOWER

0°

1471

1403

870

331

131

66

37

22

12

5

0

DISTRIBUTION

(Candelas)

Degrees Vertical

0

5

15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0.89

30K - 0.94 40K - 1.03

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AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Cailing OOV Wall 50% Elear 20%

Spacing RCR1 RCR3 4.0° 50 44 5.0° 32 28 6.0° 22 20 7.0° 18 16 8.0° 14 13 9.0° 11 10	0%
5.0' 32 28 6.0' 22 20 7.0' 18 16 8.0' 14 13	RCR5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	40
7.0 [°] 18 16 8.0 [°] 14 13	25
8.0 14 13	18
	14
9.0′ 11 10	11
7.0 11 10	9
10.0´ 8 7	6

ZONAL	LUMEN	SUMMARY
LOINAL	LOWER	SOUTHAN

Zone	Lumens	%Lamp	%Fixture
0 - 30°	610	N/A	85.2
0 - 40°	675	N/A	94.2
0 - 60°	712	N/A	99.5
0 - 90°	716	N/A	100.0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80	% Wall 50	0% Floor 2	0%
Spacing	RCR1	RCR3	RCR5
4.0´	52	45	39
5.0´	33	29	25
6.0´	23	20	17
7.0´	19	16	14
8.0	15	13	11
9.0´	11	10	9
10.0´	8	7	6

ZONA		N SUM	MARY
Zone	Lumens	%Lamp	%Fixture
0 - 30°	539	N/A	71.3
0 - 40°	627	N/A	83.0
0-60°	715	N/A	94.6
0 - 90°	755	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 11.6W , 37° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	96.4	2.7′
6	42.9	4.0'
8	24.1	5.4′
10	15.4	6.7′

LUMINANCE (Average cd/m²)

Average				
Degrees	Luminance			
45	10600			
55	5395			
65	1708			
75	266			
85	395			

INITIAL FOOTCANDLES

(One Unit, 11.6W, 34.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	92.0	2.5′
6	40.9	3.7′
8	23.0	4.9′
10	14.7	6.1′

LUMINANCE (Average cd/m²)

Average		
Degrees	Luminance	
45	22708	
55	15825	
65	12610	
75	11425	
85	14597	

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