G1.7.42

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, 3500K, or 4000K color temperatures available • 90 CRI minimum

Optical System Computer-optimized 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 JUNOICLED-DIM • 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 • Certified to 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) 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 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.

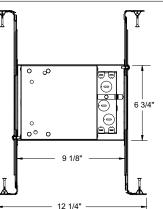


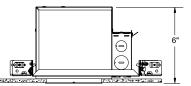
IC1LED (G4 09LM) RECESSED HOUSING











4 1/2" CEILING CUTOUT



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

IC1LED (G4 09LM) RECESSED HOUSING

SQUARE TRIMS

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 ter	np -25°C			

ELECTRICAL DATA

Universal Volta	age				
	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,	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15	
	Class B (residential)	Class B (residential)	Class B (residential)	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: ICILED G4 09LM 27K 90CRI 120 FRPC

Series		Gen	eration	Lumens		Color	Temperature	CRI		Voltage/Drive	er	Terri	tory
IC1LED	4" LED IC New Construction	G4	Generation 4	09LM	900 Nominal	27K	2700K	90CRI	90+ CRI	120 FRPC	120V Forward/Reverse Phase Cut, 5% dim	CP	Chicago Plenum
	Downlight				Lumens	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), 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

- 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.

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



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

IC1LED (G4 09LM) RECESSED HOUSING

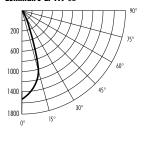
SQUARE TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

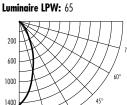
Test Report #: PT03141204R Catalog No: ICILED G4 09LM 35K 90CRI 120 with 17SQ HZWH Trim

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



30°

15

1800

0

Degrees Vertical 0' 1543 1486 1015 355

CANDLEPOWER

DISTRIBUTION

(Candelas)

0

5

15

25

35

35	85
45	31
55	13
65	3
75	0
85	0
90	0
Multiplier: 27	K - 0.89
	K - 0.94

40K - 1.03

0

1471

1403 870

331

131

66

37

22

12

5

0

(Candelas)

Degrees Vertical

0

90

Multiplier: 27K - 0.89

30K - 0.94 40K - 1.03

CANDLEPOWER

AVERAGE INITIAL FOOTCANDLES DISTRIBUTION Multiple Units (Square Array, 60'x60' room)

Spacing

4.0

5.01

6.0

7.0

8.01

9.0

10.0

Zone

0 - 30°

0 - 40°

0 - 60

0 - 90

Ceiling 80% Wall 50% Floor 20%

AVERAGE INITIAL FOOTCANDLES

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

RCR3

44

28

20

16

13

10

7

%Lamp

N/A

N/A

N/A

N/A

RCR5

40

25

18

14

9

6

%Fixture

85.2

94 2

99.5

100.0

Ceiling 80% Wall 50% Floor 20%

RCR1

50

32

22

18

14

8

ZONAL LUMEN SUMMARY

lumens

610

675

712

716

Centing ou	/o vvuli Jv	J /6 1 1001 Z	0 /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

ZONAL LUMEN SUMMARY

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.

