JUNO®

Project:	
Fixture Type:	
Location:	
Contact/Phone:	

4" IC 1400L LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1LED (G4 14LM) RECESSED HOUSING









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
- Exceeds performance of a 100W incandescent

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 • Standard optic is 45° narrow flood. Optional 60° wide flood offered (WFL option)

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 • 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 •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.

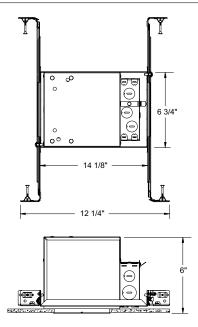
Mounting Frame 22-gauge die-formed galvanized steel mounting frame • Rough-in section (junction box, mounting trame, housing and bar hangers) fully assembled for ease of installation.

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.



DIMENSIONS



4 1/2" CEILING CUTOUT

4" IC 1400 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

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OPEN TRIMS

ELECTRICAL DATA

Dedicated 120V Only Driver Option (120 FRPC)

	120V	
Input Power	17.3W (+/-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

	MVOLT EZ	10 and EZ1	MVOLT ZT10 and ZT1			
	120V	277V	120V	277V		
Input Power	16W (+/-5%)	16.6W (+/-5%)	16W (+/-5%)	16.6W (+/-5%)		
Input Current	0.14A	0.06A	0.14A	0.06A		
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz		
EMI/RFI	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: IC1LED G4 14LM 27K 90CRI 120 FRPC

Series	Series		Generation		umens Color Te		Color Temperature		Color Temperature			Distribut	tion	Voltage/Driv	er	Terri	tory
ICILED	4" LED IC New Construction Downlight	G4	Generation 4	14LM	1400 Nominal Lumens	27K	2700K	90CRI	90+ CRI	(blank)	Medium Flood (45°)	120 FRPC	120V Forward/Reverse Phase Cut, 5% dim	CP	Chicago Plenum		
						30K	3000K			WFL	Wide Flood (65°)	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



13 WH

4" Pinhole with Integral Shield - White



14 BBRZ¹ 14 RRI1 14 BSC1

14 BWH

14 WWH

4" Downlight Baffle Trim - Black Baffle, Bronze Trim Ring 4" Downlight Baffle Trim - Black Baffle, Black Trim Ring

4" Downlight Baffle Trim - Black Baffle, Satin Chrome Trim Ring 4" Downlight Baffle Trim - Black Baffle, White Trim Ring 4" Downlight Baffle Trim - White Baffle, White Trim Ring



17 CWH 17 HZWH 17 PTSC

17 BWH 4" Downlight Cone Trim - Black Cone, White Trim Ring 4" Downlight Cone Trim - Clear Alzak® Cone, White Trim Ring 4" Downlight Cone Trim - Haze Cone, White Trim 4" Downlight Cone Trim - Pewter Cone, Satin Chrome Trim 17 WHZBRZ 4" Downlight Cone Trim - Wheat Haze Cone, Bronze Trim

17 WHZWH 4" Downlight Cone Trim - Wheat Haze Cone, White Trim 17 WWH 4" Downlight Cone Trim - White Cone, White Trim Ring

Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

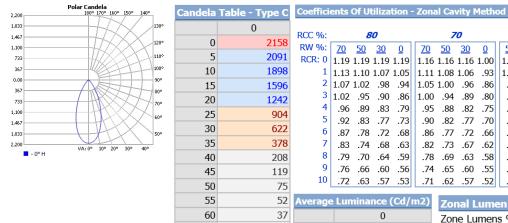
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OPEN TRIMS

PHOTOMETRICS

IC1LED G4 14LM 35K 90CRI 120 FRPC + 14 WWH, 3500K, input watts: 17.3, delivered lumens: 1482, LM/W=86, test no. 20-601-1P7



65 70

75

80

85

90

70 50 <u>70</u> <u>50</u> <u>30</u> 30 1.16 1.16 1.16 1.00 1.11 1.11 1.11 1.11 1.08 1.06 .93 1.04 1.02 1.00 1.05 1.00 .96 .86 1.00 .94 .89 .80 .91 .87 .84 .95 .88 .82 .75 .85 .81 .77 .90 .82 .77 .70 .75 .72 .71 .67 .86 .77 .72 .66 .76 .82 .73 .67 .62 .72 .67 .78 .69 .63 .58 .68 .63 .59 .74 .65 .60 .55 .64 .59 .56 .71 .62 .57 .52 .61 .56 .53

Average	Luminance (Cd/m2)	Zonal Lumen Su	mmary
	0	Zone Lumens % L	
0	351730	0-30 1,046.0	70.6%
45	27427	0-40 1,287.3	
55	14665		86.8%
65	10082	0-60 1,431.9	96.6%
75	10786	60-90 50.5	3.4%
85	9904	0-90 1,482.4	100%

Multiplier: 27K - 0.89 30K - 0.94

40K - 1.03

IC1LED G4 14LM 27K 90CRI 120 FRPC + 17 CWH, 3500K, input watts: 17.3, delivered lumens: 1362, LM/W=79, test no. 20-601-10P5

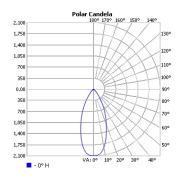
26

21 17

12

5

0



Candela T	able - Type C
	0
0	2093
5	2058
10	1864
15	1532
20	1175
25	860
30	587
35	352
40	201
45	114
50	65
55	35
60	17
65	4
70	0
75	0
80	0
85	0

Coefficients Of Utilization - Zonal Cavity Method												
RCC %:		8	0			7	0		<i>50</i>			
RW %:	<u>70</u>	50	30	0	70	50	30	0	50	30	20	
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	
1	1.14	1.11	1.09	1.06	1.11	1.09	1.07	.94	1.05	1.03	1.01	
2	1.08	1.03	1.00	.96	1.06	1.02	.98	.88	.99	.96	.93	
3	1.03	.97	.92	.88	1.01	.95	.91	.83	.93	.89	.86	
4	.98	.91	.85	.81	.96	.90	.85	.78	.87	.83	.80	
5	.93	.85	.80	.75	.92	.84	.79	.73	.82	.78	.74	
6	.89	.80	.74	.70	.87	.79	.74	.68	.78	.73	.70	
7	.85	.76	.70	.66	.83	.75	.70	.65	.74	.69	.65	
8	.81	.72	.66	.62	.80	.71	.66	.61	.70	.65	.62	
9	.77	.68	.62	.58	.76	.68	.62	.58	.67	.62	.58	
10	.74	.65	.59	.55	.73	.64	.59	.55	.63	.59	.55	

Multiplier: 27K - 0.89 30K - 0.94 40K - 1.03

00	1,
65	4
70	0
75	0
80	0
85	0
90	0

Average	Luminance (Cd/m2)	Zonal Lumen Summary
	0	Zone Lumens % Luminaire
0	341113	0-30 1,006.3 73.9%
45	26388	0-40 1,231.7 90.5%
55	10063	0-60 1,356.5 99.6%
65	1517	60-90 5.2 0.4%
75	0	70-100 0.000 0%
85	0	90-120 0.000 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.