Project: Fixture Type: Location: Contact/Phone:

4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC91LEDG4 RECESSED HOUSING



SQUARE TRIMS



PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine \bullet Double wall, shallow housing construction allows for fit in 2×6 construction \bullet Can be completely covered with insulation \bullet Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets \bullet LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims \bullet 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 4100K 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 driver or universal voltage driver that accommodates 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 driver is 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® Qualified when used with select trims \bullet Certified to the high efficacy requirements of California T24 with select trims \bullet UL listed for U.S. and Canada through-branch wiring, damp locations \bullet 12SQ trim listed for wet location (covered ceiling) \bullet Union made \bullet UL and cUL.

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

Product 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.

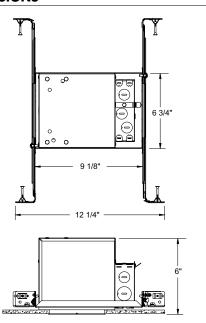
Junction Box Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

• 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.

DIMENSIONS



4 1/2" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option

	120V	
Input Power	14.9W (+/-5%)	
Input Current	0.13A	
Frequency	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15,	
	Class B (residential)	
Minimum starting temp	-25°C	

ELECTRICAL DATA

Universal Voltage

	•	
	120V	277V
Input Power	15.6W (+/-5%)	15.6W (+/-5%)
Input Current	0.14A	A80.0
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class A (non-consumer)	Class A (non-consumer)
Minimum starting temp	-40°C	-40°C

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



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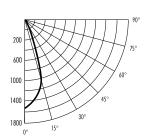
ORDERING INFORMATION: Housing and trim each ordered separately.

Example: IC91LEDG4-3K-1		Example: 1750	Q-HZ-WH					
Housing	Colo	r Temperature		nput Voltage			Trim/Description	
IC91LEDG4	27K 3K 35K 41K	2700K 3000K 3500K 4100K	 1 U	Dedicated 120V Only (Forward Phase + ELV dimmable) Universal Voltage,	2 3 2 4	175Q-HZ-WH ² 175Q-W-WH ¹ 175Q-B-WH ² 175Q-WHZ-WH ²	Square Downlight	
			Ū	120-277V (0-10V dimmable)		13SQ-WH	Square Pinhole	Trim Size: 5" O.D. Trim Finish: BL - Black, WH - White.
						12SQ-W-WH	Square Frosted Lens with Clear Center	Alzak is a registered trademark of Alcoa Corp Note: In Canada when insulation is present, Type IC fixtures must be used.
					T24	Part Lauren		Universal voltage: ENERGY STAR® and T24 at 3K, 35K and 41K only Not ENERGY STAR® Qualified or T24

PHOTOMETRIC REPORT

Test Report #: PT03141204R Catalog No: IC91LEDG4-35K-1 with 17SQ-HZ-WH Trim

Luminaire Spacing Criterion: 0.62 Luminaire LPW: 48



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	1543
5	1486
15	1015
25	355
35	85
45	31
55	13
65	3
75	0
85	0
90	0
Multiplier: 271	
	- 0.94
411	(- 1.03

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20% RCR5 RCR3 RCR1 4.0′ 50 40 28 32 25 6.0 20 18 7.0 18 16 14 8.0 14 9.0 11

ZONAL LUMEN SUMMARY

10.0

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

INITIAL FOOTCANDLES (One Unit, 15W, 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	/ 7/	_

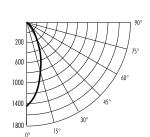
LUMINANCE (Average cd/m²)

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

PHOTOMETRIC REPORT

Test Report #: PT03141206R Catalog No: IC91LEDG4-35K-1 with 12SQ-W-WH Trim

Luminaire Spacing Criterion: 0.58 Luminaire LPW: 50



CANDLEPOWER DISTRIBUTION (Candelas)

Multiplier: 27K - 0.89

3K - 0.94 41K - 1.03

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

Ceiling 80% Wall 50% Floor 20% RCR1 RCR3 Spacing RCR5 4.0′ 45 39 33 29 5.0 25 6.0 23 20 17 7.0 19 16 14 8.0 15 13 9.0 10 10.0 8

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, 15W, 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 LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

