

JUNO

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC91 LEDG4 RECESSED HOUSING

OPEN TRIMS**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
- Comparable light output to 75W 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 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 that can produce over 900 lumens with select trims (see page 2 for details) using less than 15W*

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

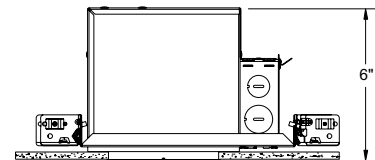
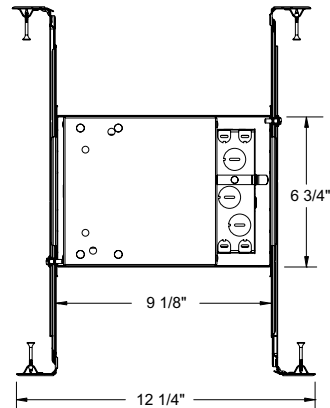
HOUSING FEATURES

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 1 1/2" 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 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**

	120V	277V
Input Power	15.6W (+/-5%)	15.6W (+/-5%)
Input Current	0.14A	0.08A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (non-consumer)	FCC Title 47 CFR, Part 15, 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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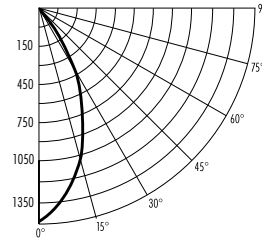
OPEN TRIMS

ORDERING INFORMATION: Housing and trim each ordered separately.

Example: IC91LEDG4-3K-1			Example: 14W-WH		
Housing	Color Temperature	Input Voltage	Trim/Description		
IC91LEDG4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)	 13-WH 2" Pinhole with Integral Shield	 4103FROST-WH Beveled Cylinder 4103FROST-SC	
			 14B-WH Black Baffle 14B-SC Black Baffle  14B-ABZ Black Baffle  14B-BL Black Baffle  14W-WH White Baffle	 4104HZ-SC Beveled Cone - Haze  4104WHZ-ABZ Beveled Cone - Wheat Haze	
			 17C-WH Cone - Clear Alzak®  17G-WH Cone - Gold Alzak®  17B-WH Cone - Black Alzak®  17PT-SC Cone - Pewter Alzak®  17W-WH Cone - Gloss White  17HZ-WH Cone - Haze  17WHZ-WH Cone - Wheat Haze  17WHZ-ABZ Cone - Wheat Haze	 4150MESH-SC Cylinder	Trim Size: 5" O.D. Trim Finish: ABZ - Classic Aged Bronze, BL - Black, SC - Satin Chrome, WH - White. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

PHOTOMETRIC REPORT

Test Report #: PTO2141303R
 Catalog No: IC91LEDG4-35K-1
 with 14W-WH Trim
 Luminaire Spacing Criterion: 0.72
 Luminaire LPW: 62



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1491
5	1449
15	1118
25	600
35	206
45	54
55	22
65	10
75	6
85	1
90	0

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%

Spacing	RCR1	RCR3	RCR5
4.0'	65	57	50
5.0'	42	36	32
6.0'	29	25	22
7.0'	23	20	18
8.0'	18	16	14
9.0'	14	12	11
10.0'	10	9	8

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	717	N/A	76.5
0-40°	852	N/A	91.0
0-60°	917	N/A	98.0
0-90°	936	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 15W, 44.2° Beam)

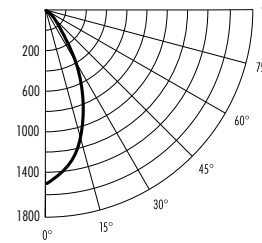
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	93.2	3.2'
6	41.4	4.9'
8	23.3	6.5'
10	14.9	8.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	12517
55	6382
65	4034
75	4069
85	2014

PHOTOMETRIC REPORT

Test Report #: LTL26327R
 Catalog No: IC91LEDG4-35K-1
 with 17C-WH Trim
 Luminaire Spacing Criterion: 0.70
 Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1508
5	1482
15	1104
25	620
35	254
45	82
55	26
65	3
75	0
85	0
90	0

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%

Spacing	RCR1	RCR3	RCR5
4.0'	68	59	52
5.0'	44	38	33
6.0'	30	26	23
7.0'	25	21	19
8.0'	19	17	15
9.0'	15	13	11
10.0'	11	10	8

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	725	N/A	73.9
0-40°	887	N/A	90.5
0-60°	977	N/A	99.6
0-90°	981	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 15W, 43.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	94.3	3.2'
6	41.9	4.8'
8	23.6	6.4'
10	15.1	8.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	18733
55	7144
65	1077
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.



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