

**Juno®**

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

# 4" IC 600 LUMEN WARMDIM® LED DOWNLIGHT NEW CONSTRUCTION

IC1LWDG4N RECESSED HOUSING


**WarmDim®**  
Bringing Warmth to LED Dimming™
**OPEN TRIMS****PRODUCT DESCRIPTION**

Dedicated LED, Air-Loc® sealed new construction housing with patented WarmDim® technology • LED color temperature warms while dimming to emulate the dimming performance of traditional incandescent light sources • 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 65W incandescent while consuming 12W

**PRODUCT SPECIFICATIONS**

**LED Light Engine** Proprietary patented micro processor controlled light engine emulates dimming performance of incandescent light source • Replaceable light engine attached to high purity aluminum, thermally conductive inner housing provides superior heat transfer to ensure long life of the LEDs • 3000K color temperature at full lumen output • 90 CRI minimum throughout dimming range • Design covered under Patent US 8,710,754.

**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 600 lumens with select trims (see page 2 for details) using 12W.

**Aesthetic Trim Selections** Compatible with wide selection of existing Juno trims • Shadow free, knife edge design blends seamlessly into ceiling.

**LED Driver** Dedicated 120 volt driver • Power factor > 0.9 • Dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage 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 and 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.

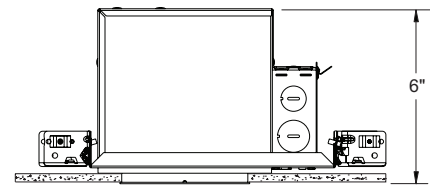
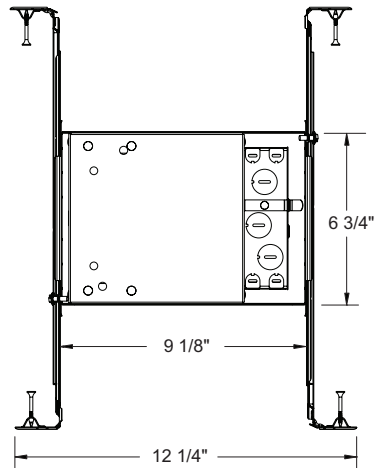
**HOUSING FEATURES**

**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 6 #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.

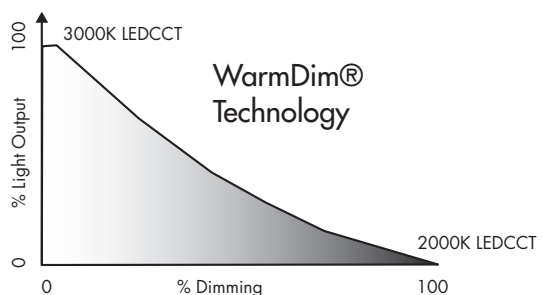
**Real Nail 3 Bar Hangers** Telescoping Real Nail 3® system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings • Design covered under Patents US5,505,419 and D552,969.

**DIMENSIONS**

4 1/2" CEILING CUTOUT

**ELECTRICAL DATA****Dedicated 120V Only Driver**

120V	
Input Power	12W (+/- 5%)
Input Current	0.1A
Frequency	50/60 Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class B (residential)
Minimum starting temp	-20°C







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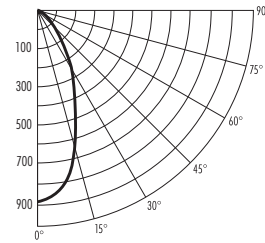
## OPEN TRIMS

**ORDERING INFORMATION:** Housing and trim each ordered separately.

Example: IC1LWDG4N-3K-1			Example: 14W-WH		
<b>Housing</b>	<b>Color Temperature</b>	<b>Input Voltage</b>	<b>Trim/Description</b>		
IC1LWDG4N	3K 3000K	1 Dedicated 120V Only (Forward Phase + ELV dimmable)		<b>13-WH</b>	2" Pinhole with Integral Shield
				<b>14B-WH<sup>1</sup></b> <b>14B-SC<sup>1</sup></b> <b>14B-ABZ<sup>1</sup></b> <b>14B-BL<sup>1</sup></b> <b>14W-WH</b>	Black Baffle Black Baffle Black Baffle Black Baffle White Baffle
				<b>17C-WH</b> <b>17G-WH</b> <b>17B-WH</b> <b>17PT-SC</b> <b>17W-WH</b> <b>17HZ-WH</b> <b>17WHZ-WH</b> <b>17WHZ-ABZ</b>	Cone - Clear Alzak® Cone - Gold Alzak® Cone - Black Alzak® Cone - Pewter Alzak® Cone - Gloss White Cone - Haze Cone - Wheat Haze Cone - Wheat Haze
				<b>4103FROST-WH</b> <b>4103FROST-SC</b>  <b>4104HZ-SC</b> <b>4104WHZ-ABZ</b>  <b>4150MESH-SC</b>	Beveled Cylinder Beveled Cone - Haze Beveled Cone - Wheat Haze 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 #: PT09141901  
Catalog No: IC1LWDG4N-3K-1 with 14W-WH Trim  
Luminaire Spacing Criterion: 0.76  
Luminaire LPW: 58



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	888
5	864
15	673
25	432
35	220
45	74
55	26
65	10
75	6
85	1
90	0

**AVERAGE INITIAL FOOTCANDLES**

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

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	48	41	36
5.0'	31	27	23
6.0'	22	18	16
7.0'	17	15	13
8.0'	14	12	10
9.0'	11	9	8
10.0'	8	7	6

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixture
0-30°	465	N/A	65.9
0-40°	602	N/A	85.4
0-60°	686	N/A	97.3
0-90°	705	N/A	100.0

**INITIAL FOOTCANDLES**

(One Unit, 12.1W, 49° Beam)

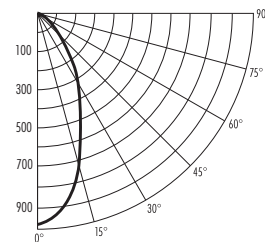
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	55.5	3.6'
6	24.7	5.5'
8	13.9	7.3'
10	8.9	9.1'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	16923
55	7238
65	4006
75	4026
85	2615

**PHOTOMETRIC REPORT**

Test Report #: PT09141903  
Catalog No: IC1LWDG4N-3K-1 with 17HZ-WH Trim  
Luminaire Spacing Criterion: 0.74  
Luminaire LPW: 59



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	972
5	941
15	722
25	464
35	219
45	70
55	19
65	3
75	0
85	0
90	0

**AVERAGE INITIAL FOOTCANDLES**

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

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	50	43	38
5.0'	32	27	24
6.0'	22	19	17
7.0'	18	15	14
8.0'	14	12	11
9.0'	11	9	8
10.0'	8	7	6

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixture
0-30°	499	N/A	69.7
0-40°	638	N/A	89.1
0-60°	713	N/A	99.5
0-90°	716	N/A	100.0

**INITIAL FOOTCANDLES**

(One Unit, 12.1W, 48.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	60.8	3.6'
6	27.0	5.4'
8	15.2	7.2'
10	9.7	8.9'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	16048
55	5393
65	1040
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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