

Juno®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

4" IC 600 LUMEN WARMDIM® LED DOWNLIGHT NEW CONSTRUCTION

IC1LWDG4N RECESSED HOUSING

**SQUARE TRIMS****PRODUCT DESCRIPTION**

Dedicated LED, Air-Loc® sealed new construction housing with patented WarmDim® technology (US 8710754) • 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

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 and heat sink 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 8710754.

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 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 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 UL listed for U.S. and Canada, through-branch wiring and damp locations • 12SQ trim listed for wet location (covered ceiling) • 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.

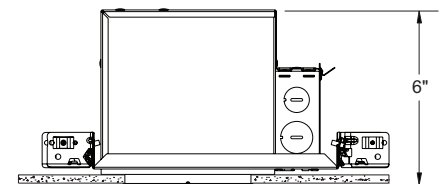
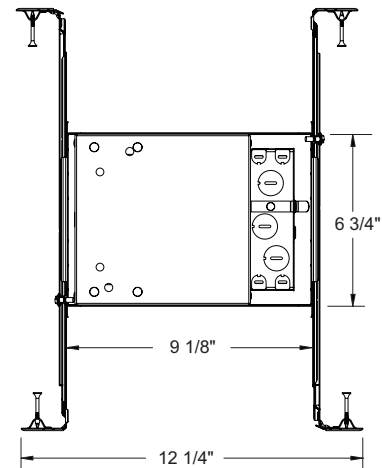
HOUSING FEATURES

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.

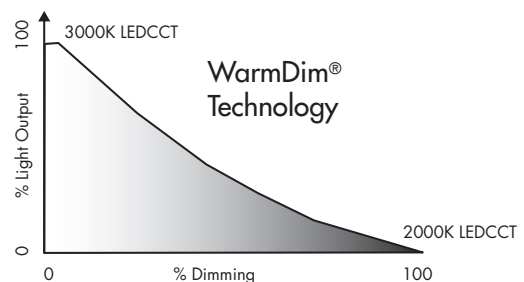
Real Nail 3 Bar Hangers Telescoping Real Nail 3® system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings • Design covered under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

**DIMENSIONS**

4 1/2" CEILING CUTOUT

ELECTRICAL DATA**Dedicated 120V Only Driver**

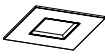
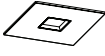
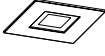

120V	
Input Power	12W (+/- 5%)
Input Current - Max	0.1A
Frequency	50/60 Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class B (residential)
Minimum starting temp	-20°C



4" IC 600 LUMEN WARMDIM® LED DOWNLIGHT NEW CONSTRUCTION

IC1LWDG4N RECESSED HOUSING SQUARE TRIMS

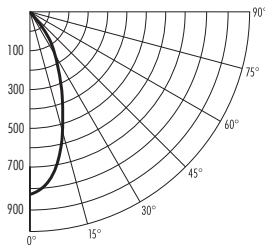
ORDERING INFORMATION: Housing, trim and accessories each ordered separately.

Example: IC1LWDG4N-3K-1			Example: 17SQ-HZ-WH	
Housing	Color Temperature	Input Voltage	Trim/Description	
IC1LWDG4N	3K 3000K	1 Dedicated 120V Only (Forward Phase + ELV dimmable)		17SQ-HZ-WH 17SQ-W-WH 17SQ-B-WH 17SQ-WHZ-WH Square Downlight
				13SQ-WH Square Pinhole
				12SQ-W-WH Square Frosted Lens with Clear Center
				

Trim Size: 5" O.D.
Trim Finish: BL - Black, 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 #: PT06142504R
Catalog No: IC1LWDG4N-3K-1
with 17SQ-HZ-WH Trim
Luminaire Spacing Criterion: 0.66
Luminaire LPW: 44



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	833
5	800
15	572
25	290
35	105
45	34
55	10
65	2
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'	36	32	28
5.0'	23	20	18
6.0'	16	14	12
7.0'	13	11	10
8.0'	10	9	8
9.0'	8	7	6
10.0'	6	5	4

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	392	N/A	74.8
0-40°	477	N/A	91.1
0-60°	521	N/A	99.4
0-90°	524	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 12.02W, 44.3° Beam)

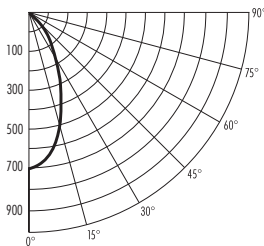
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	52.1	3.3'
6	23.1	4.9'
8	13.0	6.5'
10	8.3	8.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	14130
55	5449
65	1455
75	198
85	0

PHOTOMETRIC REPORT

Test Report #: PT06142604R
Catalog No: IC1LWDG4N-3K-1
with 12SQ-W-WH Trim
Luminaire Spacing Criterion: 0.68
Luminaire LPW: 44



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	701
5	682
15	507
25	261
35	115
45	49
55	25
65	13
75	7
85	3
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'	36	30	27
5.0'	23	19	17
6.0'	16	14	12
7.0'	13	11	10
8.0'	10	9	8
9.0'	8	7	6
10.0'	6	5	4

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	348	N/A	66.5
0-40°	431	N/A	82.3
0-60°	498	N/A	95.1
0-90°	524	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 12.02W, 46.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	43.8	3.5'
6	19.5	5.2'
8	11.0	6.9'
10	7.0	8.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	16994
55	10530
65	7691
75	6806
85	8903

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.



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com

Printed in U.S.A. ©2014 Juno Lighting, LLC.