JUNO°

Location:

Project:		
Fixture Type:		

4" IC 900 LUMEN WARMDIM® LED DOWNLIGHT **NEW CONSTRUCTION**

IC91LWDG4 RECESSED HOUSING

Contact/Phone:







Warm Dim 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 (US Patent 8,710,754) 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.

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 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

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 • 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 11/2" ceiling thickness.

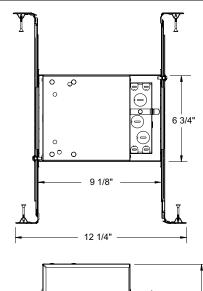
Junction Box Pre-wired junction box provided with (6) 1/2" and (1) 1/2" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire UL listed and cUL listed for through-branch wiring, maximum 6 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

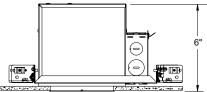
Mounting Frame 22-gauge die-formed galvanized steel mounting frame Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

Real Nail 3 Bar Hangers 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



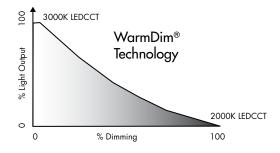


4 1/2" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver

14.9W (+/-5%)	
0.13A	
50/60 Hz	
FCC Title 47 CFR, Part 15	
Class B (residential)	
-20°C	
	0.13A 50/60 Hz FCC Title 47 CFR, Part 15 Class B (residential)



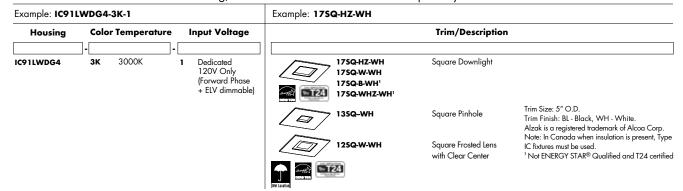


4" IC 900 LUMEN WARMDIM® LED DOWNLIGHT NEW CONSTRUCTION

IC91LWDG4 RECESSED HOUSING

SQUARE TRIMS

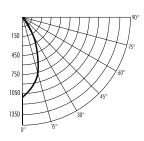
ORDERING INFORMATION: Housing, trim and accessories each ordered separately.



PHOTOMETRIC REPORT

Test Report #: PT06142504R Catalog No: IC91LWDG4-3K-1 with 17SQ-HZ-WH Trim

Luminaire Spacing Criterion: 0.66 Luminaire LPW: 46



CANDLEPOWER DISTRIBUTION (Candelas)

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20% RCR1 RCR3 4.0 48 42 37 24 5.0 31 6.0 16 7.0 17 13 8.0 14 10 9.0 10 8

ZONAL LUMEN SUMMARY

-				
	Zone	Lumens	%Lamp	%Fixture
Ī	0-30°	520	N/A	74.8
-	0 - 40°	633	N/A	91.1
	0-60°	690	N/A	99.4
-	0 - 90°	694	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 15W , 44.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	69.1	3.3'
6	30.7	4.9′
8	17.3	6.5′
10	11.1	8.1′

LUMINANCE (Average cd/m²)

1	
Luminance	
18730	
7223	
1929	
262	
0	
	7223 1929

PHOTOMETRIC REPORT

Test Report #: PT06142604R Catalog No: IC91LWDG4-3K-1 with 12SQ-W-WH Trim

Luminaire Spacing Criterion: 0.68 Luminaire LPW: 46

100 300 500 700 900 15° 30°

CANDLEPOWER DISTRIBUTION (Candelas)

0

90

(Cariacias)		
Degrees		
Vertical	0°	
0	930	
5	903	
15	672	
25	346	
35	153	
45	65	
55	33	
65	18	
75	10	
85	4	_
90	Λ	

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Celling 607	o vvali Ji	J /6 I 1001 Z	J /o
Spacing	RCR1	RCR3	RCR5
4.0′	48	41	35
5.0′	31	26	22
6.0′	21	18	16
7.0′	17	15	13
8.0′	14	12	10
9.0′	10	9	8
10.0′	8	7	6

ZONAL LUMEN SUMMARY

-	Zone	Lumens	%Lamp	%Fixture
	0-30°	462	N/A	66.5
_	0 - 40°	572	N/A	82.3
_	0 - 60°	660	N/A	95.1
_	0 - 90°	694	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 15W, 46.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	58.1	3.5′
6	25.8	5.2'
8	14.5	6.9′
10	9.3	8.6'

LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	22527	
55	13958	
65	10196	
75	9022	
85	11801	

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.