

**JUNO®**

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

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

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

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

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

IC1LED (WD G4 09LM) RECESSED HOUSING


**LENSED 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 75W incandescent while consuming less than 15W

## 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.

**Aesthetic Trim Selections** Compatible with wide selection of existing Juno trims • Shadow free, knife edge design blends seamlessly into ceiling • Trims are wet location approved for covered ceiling applications.

**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® Certified when used with select trims • Certified to the high efficacy requirements of California T24 JA8-2016 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.

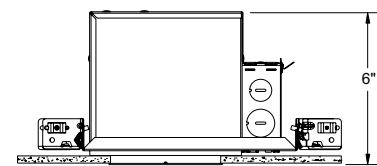
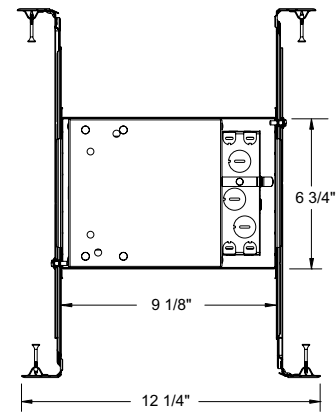
**Junction Box** Pre-wired junction box provided with (6) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 6 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts 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

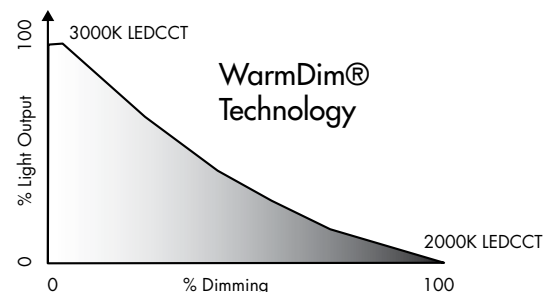


4 1/2" CEILING CUTOUT

## ELECTRICAL DATA

### Dedicated 120V Only Driver

120V	
Input Power	15.4W (+/-5%)
Input Current	0.13A
Frequency	50/60 Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class B (residential)
Minimum starting temp	-20°C



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**ORDERING INFORMATION** Housing and trim can be ordered together or separate, but will always ship separately.

**Example:** IC1LED WD G4 09LM 30K 90CRI 120 FRPC

Series	Dynamic Feature	Generation	Lumens	Color Temperature	CRI	Voltage	Driver
IC1LED 4" LED IC New Construction Downlight	WD Warm Dim	G4 Generation 4	09LM 900 Nominal Lumens	30K 3000K	90CRI 90+ CRI	120 120V	FRPC Forward/Reverse Phase Cut

## Trim/Description



**11 WH** 4" Lensed Drop Opal Trim - White



**12 WABZ<sup>1</sup>** 4" Frosted Lens with Clear Center Trim - Perimeter Frosted Lens, Classic Aged Bronze Trim Ring

**12 WSC<sup>1</sup>** 4" Frosted Lens with Clear Center Trim - Perimeter Frosted Lens, Satin Chrome Trim Ring

**12 WWH<sup>1</sup>** 4" Frosted Lens with Clear Center Trim - White, White Trim Ring



**4101 ABZ<sup>1</sup>** 4" Decorative Beveled Dome Lens Trim - Classic Aged Bronze

**4101 SC<sup>1</sup>** 4" Decorative Beveled Dome Lens Trim - Satin Chrome

**4101 WH<sup>1</sup>** 4" Decorative Beveled Dome Lens Trim - White



**4102 ABZ** 4" Decorative Beveled Lens Trim - Classic Aged Bronze

**4102 SC** 4" Decorative Beveled Lens Trim - Satin Chrome

**4102 WH** 4" Decorative Beveled Lens Trim - White

Trim Size: 5" O.D.

Note: In Canada when insulation is present, Type IC fixtures must be used.

UL Listed for use in wet location.

<sup>1</sup> Multi-Volt: T24 @ 30K, 35K and 40K only

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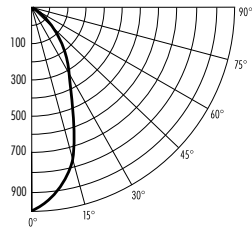
## PHOTOMETRICS

### PHOTOMETRIC REPORT

Test Report #: PT09141904R  
Catalog No: IC1LED WD G4 09LM 30K  
with 12 WWH Trim

Luminaire Spacing Criterion: 0.76

Luminaire LPW: 56



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	975	
5	961	
15	775	
25	453	
35	225	
45	117	
55	67	
65	38	
75	17	
85	2	
90	0	

### AVERAGE INITIAL FOOTCANDLES

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

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	59	49	42
5.0'	38	31	27
6.0'	26	22	19
7.0'	21	18	15
8.0'	17	14	12
9.0'	13	11	9
10.0'	9	8	7

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	511	N/A	59.1
0-40°	654	N/A	75.6
0-60°	807	N/A	93.2
0-90°	865	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 15.4W, 47.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	61.0	3.5'
6	27.1	5.3'
8	15.3	7.1'
10	9.8	8.9'

### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average Luminance
45	26989
55	18884
65	14594
75	10628
85	2959

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.