

**JUNO**®

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

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

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

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



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

## IC22LED 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 • Shallow housing 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
- Comparable light output to 75W PAR30 incandescent

### PRODUCT SPECIFICATIONS

**LED Light Engine** Proprietary patented micro processor controlled light engine emulates dimming performance of incandescent light source • Replaceable light engine integrated to thermally conductive housing provides uninterrupted 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 white finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance • Wide flood (>70°) distribution shipped as standard with optional optic accessory available and sold separately.

**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 between the j-box and housing for easy access and cool operation.

**Life** Rated for 50,000 hours at 70% lumen maintenance.

**Labels** 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 2" ceiling thickness.

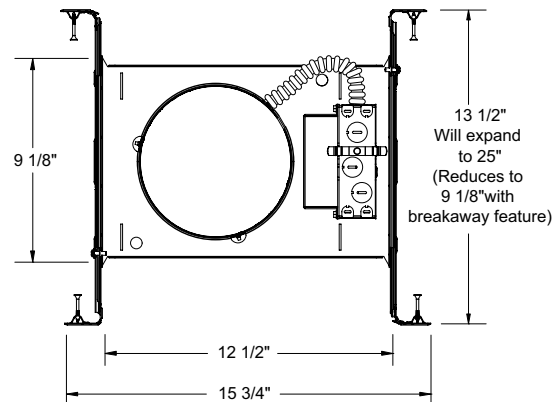
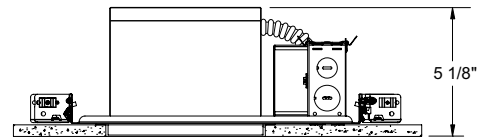
**Junction Box** Pre-wired junction box provided with (5) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 8 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts 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 US Patent D552,969.



### DIMENSIONS

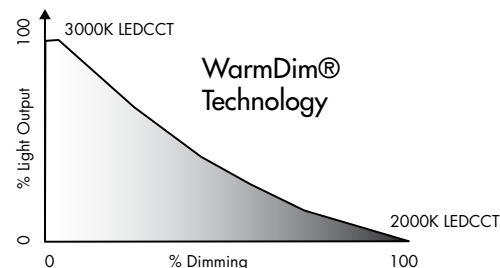


6 7/8" CEILING CUTOUT

### ELECTRICAL DATA

#### Dedicated 120V Only Driver

120V	
Input Power	18.0W (+/- 5%)
Input Current	0.15A
Frequency	50/60 Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class B (residential)
Minimum starting temp	-25°C



**MAINSTREAM  
DYNAMIC**  
BY ACUITY BRANDS®

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









## IC22LED WD (G4 09LM) RECESSED HOUSING LENSED TRIMS

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

**Example:** IC22LED WD G4 09LM 30K 90CRI 120 FRPC

Series	Dynamic Feature	Generation	Lumens	Color Temperature	CRI	Voltage	Driver
IC22LED 6" LED 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

	<b>20 WH</b> <b>20 PW</b>	6" Lensed Albalite Trim - White 6" Lensed Albalite Trim - Plastic White
	<b>21 WH</b> <b>21 PW</b>	6" Lensed Drop Opal Trim - White 6" Lensed Drop Opal Trim - Plastic White
	<b>22 WH</b>	6" Lensed Fresnel Trim - White
	<b>239 WH 1*</b>	6" Lensed Frosted Lens Trim - White
	<b>242 WH</b> <b>242 SC</b> <b>242 ABZ</b>	6" Lensed Frosted Lens with Clear Center Trim - White 6" Lensed Frosted Lens with Clear Center Trim - Satin Chrome 6" Lensed Frosted Lens with Clear Center Trim - Classic Aged Bronze
	<b>243 WH*</b>	6" Decorative Swirled Etched Opal Glass Trim - White
	<b>2330 WWH*</b> <b>2330 BWH*</b>	6" Lensed Baffle with Regressed Frosted Dome Lens Trim - White Baffle, White Trim Ring 6" Lensed Baffle with Regressed Frosted Dome Lens Trim - Black Baffle, White Trim Ring
	<b>6101 WH*</b> <b>6101 SC*</b> <b>6101 ABZ*</b>	6" Lensed Beveled Frame with Frosted Dome Lens Trim - White 6" Lensed Beveled Frame with Frosted Dome Lens Trim - Satin Chrome 6" Lensed Beveled Frame with Frosted Dome Lens Trim - Classic Aged Bronze

Trim Size: 2330 - 7 3/8" O.D.; 239, 242, 243 - 7 5/8" O.D.; 6101 - 7 3/4" O.D.; 20, 21, 22 - 8" O.D.

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

**AIR-LOC** JUNO IC housings meet IECC Energy Code requirements per ASTM E283.  
Air-Loc® rated trims are pre-gasketed for minimum air leakage with IC housings.

UL Listed for use in wet location.

\*Do not use reflector shipped with trim for LED housing.

### Accessories

Catalog Number	Description
<b>LEDOPTICG3 MFL</b>	Medium Flood Optic (50°)

To order, specify catalog number.

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

IC22LED WD (G4 09LM) RECESSED HOUSING  
LENSED TRIMS

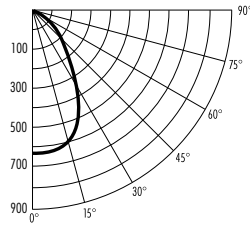
## PHOTOMETRICS

### PHOTOMETRIC REPORT

Test Report #: PT04141004  
Catalog No: IC22LED WD G4 09LM  
30K 120 with 239 WH Trim and  
Standard Wide Flood Optic

Luminaire Spacing Criterion: 0.90

Luminaire LPW: 46



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
0	643
5	633
15	553
25	407
35	249
45	138
55	82
65	52
75	30
85	9
90	0

### AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	57	45	38
5.0'	37	29	24
6.0'	25	20	17
7.0'	21	16	14
8.0'	16	13	11
9.0'	12	10	8
10.0'	9	7	6

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	399	N/A	48.1
0 - 40°	555	N/A	66.9
0 - 60°	738	N/A	88.9
0 - 90°	830	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 18W, 60.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	40.2	4.7'
6	17.9	7.0'
8	10.0	9.3'
10	6.4	11.7'

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

Degrees	Average Luminance
45	10689
55	7830
65	6739
75	6243
85	5341

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.