



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

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

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

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

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

IC1LED (WD G4 09LM) RECESSED HOUSING

**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 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 • Deep regression of lens produces a low glare, efficient system that can produce over 900 lumens with select trims (see page 2 for details) using less than 16W.

**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® 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

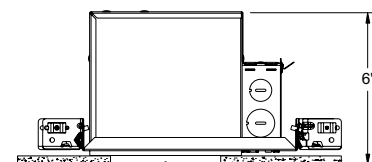
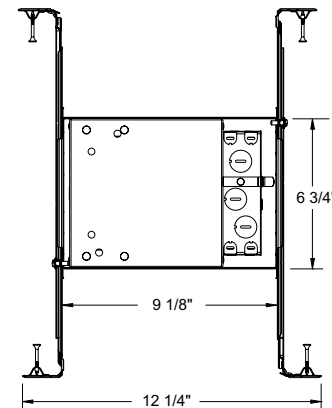
**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1 1/2" ceiling thickness.

**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 4 #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

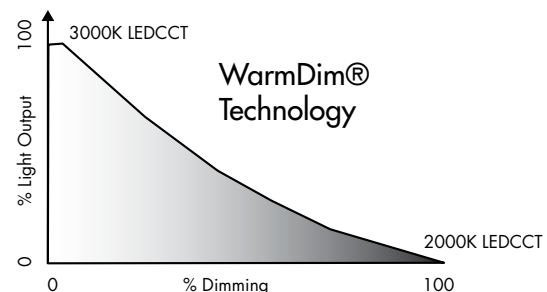


4 1/2" CEILING CUTOUT

## 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



**13 WH**

4" Pinhole with Integral Shield - White



**14 BABZ<sup>1</sup>**

4" Downlight Baffle Trim - Black Baffle, Classic Aged Bronze Trim Ring



**14 BBL<sup>1</sup>**

4" Downlight Baffle Trim - Black Baffle, Black Trim Ring



**14 BSC<sup>1</sup>**

4" Downlight Baffle Trim - Black Baffle, Satin Chrome Trim Ring



**14 BWH<sup>1</sup>**

4" Downlight Baffle Trim - Black Baffle, White Trim Ring



**14 WWH**

4" Downlight Baffle Trim - White Baffle, White Trim Ring



**17 BWH**

4" Downlight Cone Trim - Black Cone, White Trim Ring



**17 CWH**

4" Downlight Cone Trim - Clear Alzak® Cone, White



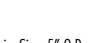
**17 GWH**

4" Downlight Cone Trim - Gold Cone, White Trim



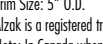
**17 HZWH**

4" Downlight Cone Trim - Haze Cone, White Trim



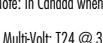
**17 PTSC**

4" Downlight Cone Trim - Pewter Cone, Satin Chrome Trim



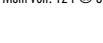
**17 WHZABZ**

4" Downlight Cone Trim - Wheat Haze Cone, Classic Aged Bronze Trim



**17 WHZWH**

4" Downlight Cone Trim - Wheat Haze Cone, White Trim



**17 WWH**

4" Downlight Cone Trim - White Cone, White Trim Ring



**4103 FROSTSC<sup>1</sup>**

4" Decorative Beveled Cylinder Trim - Frosted Glass, Satin Chrome Trim Ring



**4103 FROSTWH<sup>1</sup>**

4" Decorative Beveled Cylinder Trim - Frosted Glass, White Trim Ring



**4104 HZSC**

4" Decorative Beveled Cone Trim - Haze Cone, Satin Chrome Trim Ring



**4104 WHZABZ**

4" Decorative Beveled Cone Trim - Wheat Haze, Classic Aged Bronze Trim



**4150 MESHSC**

4" Decorative Glass Cylinder Trim - Mesh Glass, Satin Chrome Trim Ring

Trim Size: 5" O.D.

Alzak is a registered trademark of Alcoa Corp.

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

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

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OPEN TRIMS

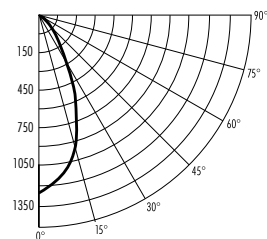
## PHOTOMETRICS

### PHOTOMETRIC REPORT

Test Report #: PT09141901R  
Catalog No: IC1LED WD G4 09LM 30K  
90CRI 120 with 14 WWH Trim

Luminaire Spacing Criterion: 0.76

Luminaire LPW: 60



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1172
5	1141
15	889
25	570
35	290
45	97
55	34
65	14
75	8
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'	64	55	48
5.0'	41	35	31
6.0'	28	24	21
7.0'	23	20	17
8.0'	18	16	14
9.0'	14	12	10
10.0'	10	9	8

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	614	N/A	65.9
0-40°	795	N/A	85.4
0-60°	905	N/A	97.3
0-90°	931	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 15.4W , 49° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	73.3	3.6'
6	32.6	5.5'
8	18.3	7.3'
10	11.7	9.1'

### LUMINANCE (Average cd/m²)

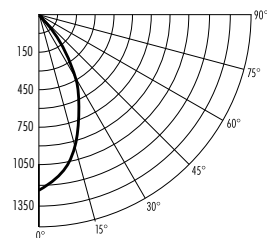
Degrees	Average Luminance
45	22338
55	9554
65	5289
75	5314
85	3452

### PHOTOMETRIC REPORT

Test Report #: PT09141903R  
Catalog No: IC1LED WD G4 09LM 30K  
90CRI 120 with 17 HZWH Trim

Luminaire Spacing Criterion: 0.74

Luminaire LPW: 61



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1283
5	1242
15	953
25	612
35	289
45	92
55	25
65	4
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'	66	57	50
5.0'	42	36	32
6.0'	29	25	22
7.0'	24	20	18
8.0'	19	16	14
9.0'	14	12	11
10.0'	11	9	8

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	659	N/A	69.7
0-40°	843	N/A	89.1
0-60°	941	N/A	99.5
0-90°	946	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 15.4W , 48.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	80.2	3.6'
6	35.6	5.4'
8	20.0	7.2'
10	12.8	8.9'

### LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	21184
55	7119
65	1373
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.