

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

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

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

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



# 6" IC 600 LUMEN WARMDIM® LED DOWNLIGHT NEW CONSTRUCTION

IC22LED WD (G4N 06LM) 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 • 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 65W BR30 incandescent while consuming 10W

## 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 • 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 10W • Wide flood distribution (>70°) 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.

**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** Certified to the high efficacy requirements of California T24 JA8-2019 with select trims • UL listed for U.S. and Canada, through-branch wiring and damp locations • UL and cUL.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Specifications subject to change without notice.

## HOUSING FEATURES

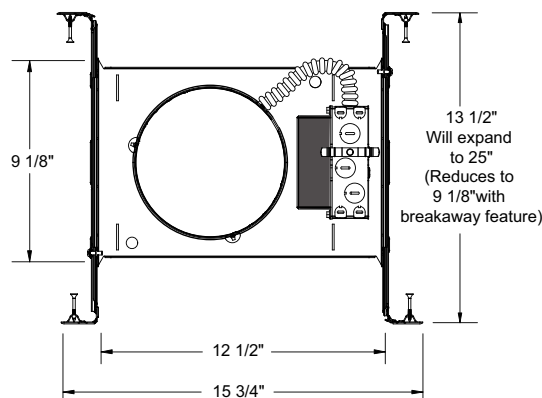
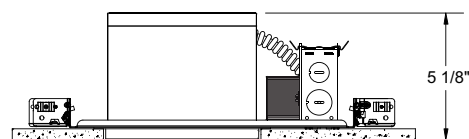
**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

**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

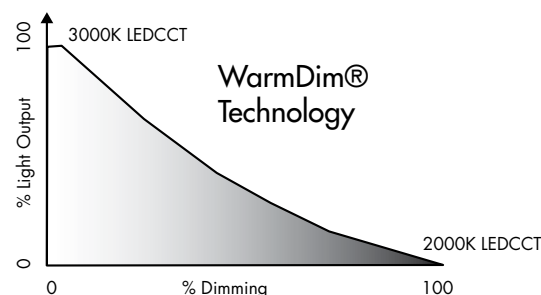


6 7/8" CEILING CUTOUT

## ELECTRICAL DATA

### Dedicated 120V Only Driver

120V	
Input Power	10W (+/- 5%)
Input Current	0.08A
Frequency	50/60 Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class B (residential)
Minimum starting temp	-20°C



**MAINSTREAM  
DYNAMIC**  
BY ACUITY BRANDS®

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## ORDERING INFORMATION

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

Example: IC22LED WD G4N 06LM 30K 90CRI 120 FRPC

Series	Dynamic Feature	Generation	Lumens	Color Temperature	CRI	Voltage	Driver
IC22LED 6" LED New Construction Downlight	WD Warm Dim	G4N Generation 4 New	06LM 600 Nominal Lumens	30K 3000K	90CRI 90+ CRI	120 120V	FRPC Forward/Reverse Phase Cut

### Trim/Description



**24 BBRZ**

Downlight Tapered Black Baffle, Bronze Trim Ring



**24 BBL**

Downlight Tapered Black Baffle, Black Trim Ring

**24 BSC**

Downlight Tapered Black Baffle, Satin Chrome Trim Ring

**24 BWH**

Downlight Tapered Black Baffle, White Trim Ring

**24 WWH**

Downlight Tapered White Baffle, White Trim Ring



**27 BWH**

Downlight Tapered Black Cone, White Trim Ring

**27 CWH**

Downlight Tapered Clear Cone Alzak®, White Trim Ring

**27 GWH**

Downlight Tapered Gold Cone, White Trim Ring

**27 HZWH**

Downlight Tapered Haze Cone, White Trim Ring

**27 PTSC**

Downlight Tapered Pewter Cone, Satin Chrome Trim Ring

**27 WHZBRZ**

Downlight Tapered Wheat Haze Cone, Bronze Trim Ring

**27 WHZWH**

Downlight Tapered Wheat Haze Cone, White Trim Ring

**27 WWH**

Downlight Tapered White Cone, White Trim Ring

Trim Size: 24, 27 - 7<sup>5/8</sup>" O.D.

Alzak is a registered trademark of Alcoa Corp.

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

### Accessories

#### Catalog Number Description

**LEDOPTICG3 MFL** Medium Flood Optic (50°)

To order, specify catalog number.

#### Catalog Number Description

**TR6 BRZ** 6" Trim Ring - Bronze

**TR6 BL** 6" Trim Ring - Black

**TR6 SC** 6" Trim Ring - Satin Chrome

**TR6 WH** 6" Trim Ring - White

To order, specify catalog number.

\*TR6 available for 24 and 27 trim series only

# 6" IC 600 LUMEN WARMDIM® LED DOWNLIGHT NEW CONSTRUCTION

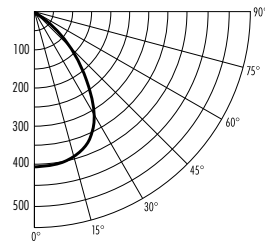
IC22LED WD (G4N 06LM) RECESSED HOUSING  
OPEN TRIMS

## PHOTOMETRICS

### PHOTOMETRIC REPORT

**Test Report #:** PT08142501  
**Catalog No:** IC22LED WD G4N 06LM  
30K 120 with 24 WWH Trim and standard wide flood optic

**Luminaire Spacing Criterion:** 1.18  
**Luminaire LPW:** 68



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	417
5	414
15	393
25	355
35	276
45	123
55	56
65	28
75	17
85	4
90	0

### AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	46	37	31
5.0'	29	24	20
6.0'	20	17	14
7.0'	17	13	11
8.0'	13	11	9
9.0'	10	8	7
10.0'	7	6	5

### INITIAL FOOTCANDLES (One Unit, 10W, 78.8° Beam)

Distance to Illuminated Plane (feet)	Footcandles Beam Center	Beam Diameter
4	26.1	6.6'
6	11.6	9.9'
8	6.5	13.1'
10	4.2	16.4'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	313	N/A	45.9
0-40°	481	N/A	70.6
0-60°	630	N/A	92.6
0-90°	681	N/A	100.0

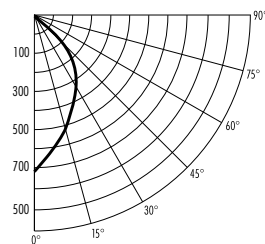
### LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	10312
55	5771
65	3937
75	3812
85	2591

### PHOTOMETRIC REPORT

**Test Report #:** PT08142504  
**Catalog No:** IC22LED WD G4N 06LM  
30K 120 with 27 HZWH Trim and standard wide flood optic

**Luminaire Spacing Criterion:** 0.78  
**Luminaire LPW:** 71



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	724
5	679
15	512
25	406
35	294
45	118
55	36
65	6
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'	49	41	35
5.0'	31	26	22
6.0'	22	18	16
7.0'	18	15	13
8.0'	14	12	10
9.0'	11	9	8
10.0'	8	7	6

### INITIAL FOOTCANDLES (One Unit, 10W, 59° Beam)

Distance to Illuminated Plane (feet)	Footcandles Beam Center	Beam Diameter
4	45.2	4.5'
6	20.1	6.8'
8	11.3	9.1'
10	7.2	11.3

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	393	N/A	55.5
0-40°	573	N/A	80.9
0-60°	701	N/A	99.0
0-90°	708	N/A	100.0

### LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	9926
55	3678
65	802
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.