

# Juno®

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

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

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

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

## 6" IC LED DOWNLIGHT NEW CONSTRUCTION

### IC22LED RECESSED HOUSING LENSED TRIMS

#### PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • 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 • 3 year warranty.

#### ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 65W BR30 incandescent while consuming 14W



#### PRODUCT SPECIFICATIONS

**LED Light Engine** Cast aluminum heat sink integrated directly with housing provides superior thermal management to ensure the long life of the LED • Replaceable PC board with quick connector mounts directly to heat sink and incorporates the latest generation of high lumen output LEDs binned to Energy Star standards • 3000K, 3500K, or 4100K color temperatures available.

**Optical System** Computer-optimized internal reflector with specular 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** Universal voltage driver accommodates input voltages from 120 to 277 volts AC at 60Hz • Power factor > 0.9 at 120V input • Driver has integral thermal protection • Driver is dimmable with the use of Juno qualified 120V electronic low voltage wall box dimmers • 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 through-branch wiring, damp locations • Union made AFL-CIO, UL and cUL, RoHS compliant.

**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

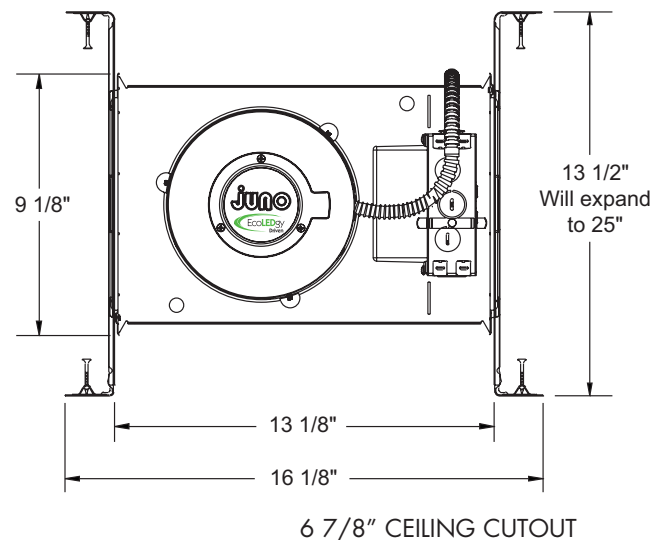
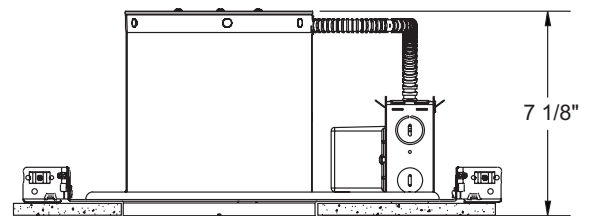
**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • .032" aluminum housing sealed for Air-Loc compliance • Housing is vertically adjustable to accommodate up to a 1" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (5) ½" and (1) ¾" knockouts and ground wire, UL listed and cUL listed for through-branch wiring, maximum 8 No. 12 AWG 90° C branch circuit conductors (4 in, 4 out) • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Push-in 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, patent pending 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.

#### DIMENSIONS



#### ELECTRICAL DATA

	120V	277V
Input Power	14.2W (+/-5%)	15.4W (+/-5%)
Input Current - Max	0.128A	0.069A
Frequency	60Hz	60Hz
EMI/RFI	FCC Title 47 CFR, Part 18, Class B (consumer)	FCC Title 47 CFR, Part 18, Class A (commercial)
Minimum starting temp	-20°C (-4°F)	-20°C (-4°F)

#### 120V APPROVED DIMMERS

Electronic low voltage dimmers require a neutral wire in the wall box.

##### Lutron®:

Model numbers -  
Skylark® SELV-303P  
Skylark® SELV-300P  
Nova T<sup>☆</sup>® NTELV-600  
Nova T<sup>☆</sup>® NTELV-300  
Diva® DVELV-300P

##### Leviton®:

Model number -  
Acenit® ACE06-1LW  
Monet® MNE04-1LW  
Vizia+® VPE04-1LZ  
Vizia+® VZE04-1LX

Consult technical services or factory for additional dimmers.

# 6" IC LED DOWNLIGHT NEW CONSTRUCTION











## IC22LED RECESSED HOUSING LENSED TRIMS

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

Example: **IC22LED-3K**

Housing	Color Temperature Options	
IC22LED	3K	3000K
	35K	3500K
	41K	4100K

Example: **2330W-WH**

Trim/Description	
 <b>20-WH</b> <b>20-PW</b>	Albalite Shower/Closet Light
 <b>21-WH</b> <b>21-PW</b>	Drop Opal Shower/Closet Light
 <b>22-WH</b>	Fresnel
 <b>239-WH *</b>	Frosted Lens
 <b>242-WH</b> <b>242-SC</b> <b>242-ABZ</b>	Shower Trim Frosted Lens with Clear Center
 <b>243-WH *</b>	Decorative Swirled Etched Opal Glass
 <b>2330W-WH *</b>	White Baffle, Regressed Frosted Dome Lens with Reflector
 <b>2330B-WH *</b>	Black Baffle, Regressed Frosted Dome Lens with Reflector
 <b>6101-ABZ *</b> <b>6101-SC *</b> <b>6101-WH *</b>	Beveled Frame - Frosted Dome Lens with Reflector
 <b>9900-WH *</b>	Fluted Drop Opal Lens


UL Listed for use in wet location.

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

Trim Size: 2330 - 7<sup>3</sup>/<sub>8</sub>" O.D.; 239, 242, 243, 9900 - 7<sup>7</sup>/<sub>8</sub>" O.D.; 6101 - 7<sup>3</sup>/<sub>4</sub>" O.D.; 20, 21, 22 - 8" O.D.

Trim Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White, PW - Plastic White (Polycarbonate material shower trim).

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

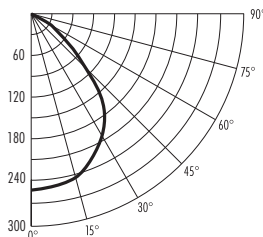
 JUNO IC housings meet IECC Energy Code requirements per ASTM E283.

Air-Loc® rated trims are pre-gasketed for minimum air leakage with IC housings.

### PHOTOMETRIC REPORT

Test Report #: LTL14391  
Catalog No: IC22LED-35K  
with 239-WH Trim

Luminaire Spacing Criterion: 1.2  
Luminaire LPW: 36.5



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	253
5	252
15	247
25	225
35	171
45	102
55	55
65	32
75	18
85	5
90	0

Multiplier: 3K - 0.96  
41K - 1.03

### AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	34	30	26
5.0'	22	19	16
6.0'	15	13	11
7.0'	12	11	9
8.0'	10	8	7
9.0'	7	6	6
10.0'	5	5	4

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	197	N/A	40.2
0-40°	303	N/A	61.9
0-60°	432	N/A	88.3
0-90°	489	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 13.4W, 82.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	15.8	4.9'
6	7.0	7.4'
8	4.0	9.8'
10	2.5	12.3'

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

Degrees	Average Luminance
45	8226
55	5503
65	4369
75	4039
85	3553

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.



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