



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

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

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

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

# 5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1420LEDG4 RECESSED HOUSING  
**LENSED TRIMS**

## PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Housing allows for fit in 2 x 8 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 120W PAR38, BR40 incandescent or 32W compact fluorescent

## PRODUCT SPECIFICATIONS

**LED Light Engine** LED array integrated to thermally conductive housing provides uninterrupted heat transfer to ensure long life of the LED

- Replaceable light engine mounts directly to housing and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4100K color temperatures available • 90 CRI minimum.

**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 distribution shipped as standard with optional optic accessories 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 applications.

**LED Driver** Choice of dedicated 120 volt driver or universal voltage driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see [JUNOICLED-DIM](#)

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

**Labels** UL listed for U.S. and Canada, through-branch wiring and wet locations (covered ceilings) • 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.

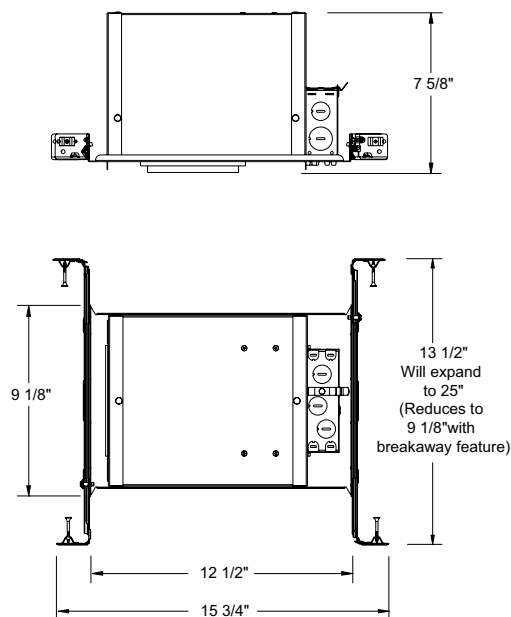
**Junction Box** Pre-wired junction box provided with (6) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 8 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts 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** 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



5 5/8" CEILING CUTOUT

## ELECTRICAL DATA

### Dedicated 120V Only Driver Option

120V	
Input Power	20.3W (+/-5%)
Input Current	0.17A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class B (residential)
Minimum starting temp	-25°C

## ELECTRICAL DATA

### Universal Voltage

	120V	277V
Input Power	20.3W (+/-5%)	20.8W (+/-5%)
Input Current	0.17A	0.08A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class A (commercial)	FCC Title 47 CFR, Part 15 Class A (commercial)
Minimum starting temp	-40°C	-40°C

# 5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

## IC1420LEDG4 RECESSED HOUSING LENSED TRIMS

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

Example: **IC1420LEDG4-3K-1**





Housing	Color Temperature	Input Voltage
<b>IC1420LEDG4</b>	<b>27K</b> 2700K <b>3K</b> 3000K <b>35K</b> 3500K <b>41K</b> 4100K	<b>1</b> Dedicated 120V Only (Forward Phase + ELV dimmable)  <b>U</b> Universal Voltage, 120-277V (0-10V dimmable)

### ACCESSORIES

Catalog No.	Description
<b>LEDOPTICG3-M</b>	Medium Flood Optic (50°)
<b>LEDOPTICG3-N</b>	Narrow Flood Optic (37°)
<b>LEDOPTICG3-S</b>	Spot Optic (10°)

To order, specify catalog number.

Example: **210N-WH**

Trim/Description		
	<b>210N-WH *</b> <b>210N-SC *</b> <b>210N-ABZ *</b>	Flat Glass Shower Trim
	<b>212N-WH *</b> <b>212N-SC *</b> <b>212N-ABZ *</b>	Frosted Lens with Clear Center
	<b>2130W-WH *</b>  <b>2130B-WH *</b>	White Baffle Regressed Frosted Dome Lens with Reflector Black Baffle Regressed Frosted Dome Lens with Reflector
	<b>5101-ABZ *</b> <b>5101-SC *</b> <b>5101-WH *</b>	Beveled Frame - Frosted Dome Lens with Reflector

UL Listed for use in wet location.

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

Trim Size: 210, 212, 2130 - 6¼" O.D.; 5101 - 6½" O.D.

Trim Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White

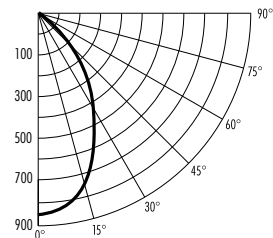
Note: In Canada when insulation is present, Type IC fixtures must be used.

**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.

### PHOTOMETRIC REPORT

Test Report #: PT10112703R  
Catalog No: IC1420LEDG4-35K  
with 210-WH Trim  
and standard wide flood optic  
Luminaire Spacing Criterion: 0.92  
Luminaire LPW: 49



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	859	
5	850	
15	759	
25	563	
35	299	
45	146	
55	77	
65	43	
75	22	
85	5	
90	0	
Multiplier: 27K - 0.90 3K - 0.97 41K - 1.04		

### AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	67	56	47
5.0'	43	36	30
6.0'	30	25	21
7.0'	24	20	17
8.0'	19	16	13
9.0'	15	12	10
10.0'	11	9	8

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	547	N/A	54.8
0-40°	738	N/A	73.9
0-60°	925	N/A	92.7
0-90°	998	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 20.3W, 59.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	53.7	4.6'
6	23.9	6.9'
8	13.4	9.2'
10	8.6	11.5'

### LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	16261
55	10613
65	8002
75	6795
85	4656

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.



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925  
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064  
Visit us at [www.junolightinggroup.com](http://www.junolightinggroup.com)

Printed in U.S.A. ©2015 Juno Lighting, LLC.