



Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC20LED (G4 14LM), 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 4000K 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 (>70°) 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 (120) driver or universal voltage (MVOLT) drivers that accommodate 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 drivers are 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 • Certified to the high efficacy requirements of California T24 JA8-2016 with select trims • 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.

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.

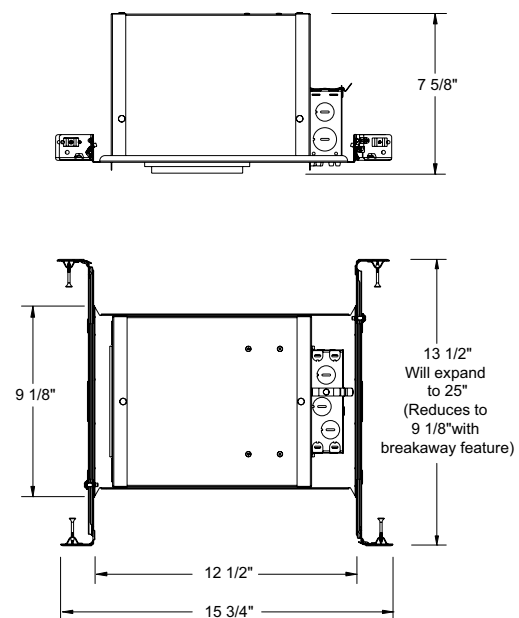
Junction Box Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 8 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped 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

5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC20LED (G4 14LM), RECESSED HOUSING LENSED TRIMS

ELECTRICAL DATA

Dedicated 120V Only Driver Option (120 FRPC)

120V	
Input Power	17.4W (+/-5%)
Input Current	0.15A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-25°C

ELECTRICAL DATA

Universal Voltage

	MVOLT EZ10 and EZ1		MVOLT ZT10 and ZT1	
	120V	277V	120V	277V
Input Power	15.6W (+/-5%)	16.3W (+/-5%)	15.6W (+/-5%)	16.3W (+/-5%)
Input Current	0.13A	0.06A	0.13A	0.06A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-20°C	-20°C	-20°C	-20°C

ORDERING INFORMATION

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

Example: IC20LED G4 14LM 30K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage/Driver
IC20LED 5" LED IC New Construction Downlight	G4 Generation 4	14LM 1400 Nominal Lumens	27K 2700K	90CRI 90+ CRI	120 FRPC 120V Forward/Reverse Phase Cut, 5% dim
			30K 3000K		MVOLT ZT10 Multi-Volt (120-277), 0-10V, 10% dim
			35K 3500K		MVOLT ZT1 Multi-Volt (120-277), 0-10V, 1% dim
			40K 4000K		MVOLT EZ10 Multi-Volt (120-277), eidoLED 0-10V, 10% dim
					MVOLT EZ1 Multi-Volt (120-277), eidoLED 0-10V, 1% dim



A+ Capable options indicated by this color background

Trim/Description



- 210N WH *** 5" Lensed Flat Glass Shower Trim - White
- 210N SC *** 5" Lensed Flat Glass Shower Trim - Satin Chrome
- 210N ABZ *** 5" Lensed Flat Glass Shower Trim - Classic Aged Bronze



- 212N WH *** 5" Lensed Frosted Lens with Clear Center Trim - White
- 212N SC *** 5" Lensed Frosted Lens with Clear Center Trim - Satin Chrome
- 212N ABZ** 5" Lensed Frosted Lens with Clear Center Trim - Classic Aged Bronze



- 2130 WWH *** 5" Lensed Baffle with Regressed Frosted Dome Lens Trim - White Baffle, White Trim Ring
- 2130 BWH *** 5" Lensed Baffle with Regressed Frosted Dome Lens Trim - Black Baffle, Black Trim Ring



- 5101 ABZ *** 5" Lensed Beveled Frame with Frosted Dome Lens Trim - Classic Aged Bronze
- 5101 SC *** 5" Lensed Beveled Frame with Frosted Dome Lens Trim - Satin Chrome
- 5101 WH *** 5" Lensed Beveled Frame with Frosted Dome Lens Trim - White

UL Listed for use in wet location.

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

Trim Size: 210, 212, 2130 - 6 1/4" O.D.; 5101 - 6 1/2" O.D.

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.

Accessories (ordered separately)

Catalog Number	Description
LEDOPTICG3 MFL	Medium Flood Optic (50°)
LEDOPTICG3 NFL	Narrow Flood Optic (37°)
LEDOPTICG3 SP	Spot Optic (10°)

To order, specify catalog number.

5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

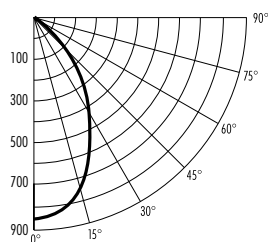
IC20LED (G4 14LM), RECESSED HOUSING
LENSED TRIMS

PHOTOMETRIC REPORT

Test Report #: PT10112703R
Catalog No: IC20LED G4 14LM 35K
with 210 WH Trim
and standard wide flood optic

Luminaire Spacing Criterion: 0.92

Luminaire LPW: 57



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
Vertical	
0	859
5	850
15	759
25	563
35	299
45	146
55	77
65	43
75	22
85	5
90	0
Multiplier: 27K - 0.93	
30K - 0.97	
40K - 1.02	

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, 17.4W, 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.