JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC20LED (G4 14LM), RECESSED HOUSING

HYPERBOLIC TRIMS 24

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 unregister to fixture to fixture acteurity to 2700X 2500X are superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4000K color temperatures available • 90 CRI minimum.

Hyperbolic Optical System Unique hyperbolic reflector shape optimized for small, directional LED source provides unique aperture appearance with reduced brightness ● NMC[™] nano mixing chamber (provided with trim) with high reflectance white finish coupled with a high transmission diffusing lens conceals the LED and integrates with the hyperbolic trim to create a low glare, efficient system.

Aesthetic Trim Selections Hyperbolic reflector available in clear Alzak[®], haze, wheat haze, black Alzak and white • Shadow free, knife edge design blends seamlessly into ceiling • Installs with torsion springs.

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 <u>JUNOICLED-DIM</u>

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 and damp locations • 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) $\frac{1}{2}$ and (1) $\frac{3}{4}$ 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.

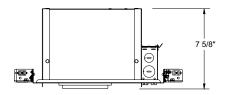
Mounting Frame 22-gauge die-formed galvanized steel mounting frame Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

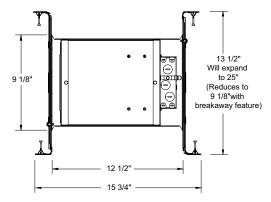
Real Nail 3 Bar Hangers Patented (US Patent D552,969) Real Nail® 3 bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.



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DIMENSIONS





5 5/8" CEILING CUTOUT

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5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

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HYPERBOLIC TRIMS

ELECTRICAL DATA

Dedicated 120V	Only Driver Option (120 FRP	C)
	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 Volto	age				
	MVOLT EZ	10 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		Gene	ration	Lumens		Color	Temperature	CRI		Voltage/Drive	r
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), eldoLED 0-10V, 10% dim
										MVOLT EZ1	Multi-Volt (120-277), eldoLED 0-10V, 1% dim



Trim/Description

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204HYP3 HZWH³ 204HYP3 WHZABZ¹ 204HYP3 WHZWH¹ 204HYP3 WHZWH¹ 204HYP3 WWH²

204HYP3 BWH

204HYP3 CWH

5" Hyperbolic Cone Trim - Black Cone, White Trim Ring

- 5″ Hyperbolic Cone Trim Clear Alzak® Cone, White Trim Ring 5″ Hyperbolic Cone Trim - Haze Cone , White Trim Ring
- 5" Hyperbolic Cone Trim Wheat Haze Cone, Classic Aged Bronze Trim Ring
- 5" Hyperbolic Cone Trim Wheat Haze Cone, Classic Aged Biolize Trim King
- 5" Hyperbolic Cone Trim White Cone, White Trim Ring
- ¹ Not ENERGY STAR-Certified or T24 Certified ² MVOLT: Nor ENERGY STAR® Certified or T24 certified ³ MVOLT: ENERGY STAR® Certified and T24 certified and ST24. (41K only)

Accessories (ordered separately)

Catalog Number	Description
TR5 ABZ	5″ Trim Ring - Classic Aged Bronze
TR5 BL	5" Trim Ring - Black
TR5 SC	5" Trim Ring - Satin Chrome
TR5 WH	5" Trim Ring - White

To order, specify catalog number.

Trim Size: 61⁄2″ O.D. Alzak≈ is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

SecurityBrands.

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5" IC 1400 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

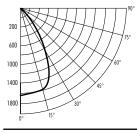
IC20LED (G4 14LM), RECESSED HOUSING

HYPERBOLIC TRIMS

PHOTOMETRIC REPORT

Test Report #: PT10141706R Catalog No: IC20LED G4 14LM 35K with 204HYP3 CWH Trim and standard nano mixing chamber

Luminaire Spacing Criterion: 0.92 Lumingire LPW: 86



DISTRIBUTION (Candelas) Degrees Vertical 0° 1658 1634

1496

1074

522

127

0

0

٥

0

0

0°

1571

1532

1298

1008

534

124

2

0

0

0

0

CANDLEPOWER

5

15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0 93

30K - 0.97 40K - 1.02

CANDLEPOWER

DISTRIBUTION

(Candelas)

Degrees

Vertical

0

5

15

25

35

45

55

65

75

85

90

Multiple Units (Square Array, 60'x60' room)					
Ceiling 80°	% Wall 50	0% Floor 2	0%		
Spacing	RCR 1	RCR3	RCR5		
4.0′	104	90	78		
5.0´	66	57	50		
6.0´	46	40	35		
7.0´	37	32	28		
8.0´	29	25	22		
9.0´	23	19	17		
10.0´	17	14	13		

AVERAGE INITIAL FOOTCANDLES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture	
 0 - 30°	1060	N/A	71.1	
0 - 40°	1388	N/A	93.0	
0-60°	1492	N/A	100.0	
0 - 90°	1492	N/A	100.0	

INITIAL FOOTCANDLES

(One Unit, 17.4W, 59.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	103.6	4.6′
6	46.1	6.9′
8	25.9	9.2′
10	16.6	11.5′

LUMINANCE (Average cd/m²)

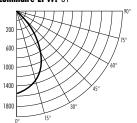
Average 0°

Degrees	Luminance	
45	16972	
55	0	
65	0	
75	0	
85	0	

PHOTOMETRIC REPORT

Test Report #: PT10141704R Catalog No: IC20LED G4 14LM 35K with 204HYP3 HZWH Trim and standard nano mixing chamber

Luminaire Spacing Criterion: 0.90 Luminaire LPW: 81



AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80%	6 VVall S	0% Floor 20	J%
Spacing	RCR1	RCR3	RCR5
4.01	98	85	74
5.0 ^r	63	54	47
6.0	43	38	33
7.0′	35	30	27
8.01	28	24	21
9.01	21	18	16
10.01	16	14	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	967	N/A	68.6
0 - 40°	1299	N/A	92.2
0-60°	1409	N/A	100.0
0 - 90°	1409	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 17.4W, 61.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	98.2	4.7′
6	43.6	7.1′
8	24.5	9.5′
10	15.7	11.9′

LUMINANCE (Average cd/m²)

Average 0°	
Luminance	
16666	
361	
0	
0	
0	
	Luminance 16666

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.

Multiplier: 27K - 0.93 30K - 0.97 40K - 1.02