

JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC20LED (G4 14LM), RECESSED HOUSING
OPEN 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 • Deep regression of lens produces a low glare, efficient system that produces 1400 lumens typical with select trims • 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.

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 ENERGY STAR® Certified when used with select baffle and cone trims • 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 • 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.

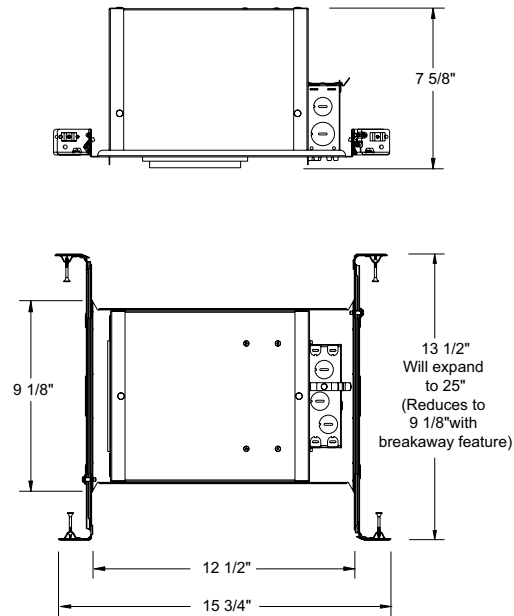
Junction Box Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 8 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped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

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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

	205 BBRZ¹	5" Downlight Baffle Trim - Black Baffle, Bronze Trim Ring
	205 BSC¹	5" Downlight Baffle Trim -Black Baffle, Satin Chrome Trim Ring
	205 BWH¹	5" Downlight Baffle Trim -Black Baffle, White Trim Ring
	205 WWH	5" Downlight Baffle Trim -White Baffle, White Trim Ring
	204 BWH¹	5" Downlight Cone Trim -Black Alzak® Cone, White Trim Ring
	204 CWH	5" Downlight Cone Trim -Clear Alzak® Cone, White Trim Ring
	204 GWH	5" Downlight Cone Trim -Gold Alzak® Cone, White Trim Ring
	204 HZWH	5" Downlight Cone Trim -Haze Cone, White Trim Ring
	204 WHZBRZ	5" Downlight Cone Trim -Wheat Haze Cone, Bronze Trim Ring
	204 WHZWH	5" Downlight Cone Trim -Wheat Haze Cone, White Trim Ring
	204 WWH	5" Downlight Cone Trim -White Cone, White Trim Ring

¹ Not ENERGY STAR® Certified or T24 certified

Trim Size: 6¼" O.D.

Alzak® is a registered trademark of Alcoa Corp.

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

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.

Catalog Number	Description
TR5 BRZ	5" Trim Ring - Bronze
TR5 BL	5" Trim Ring - Black
TR5 SC	5" Trim Ring - Satin Chrome
TR5 WH	5" Trim Ring - White

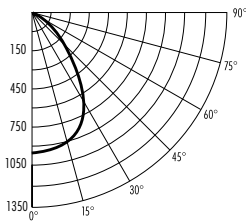
To order, specify catalog number.

5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC20LED (G4 14LM), RECESSED HOUSING
OPEN TRIMS

PHOTOMETRIC REPORT

Test Report #: PT10141703R
Catalog No: IC20LED G4 14LM 35K
with 205 WWH Trim
and standard wide flood optic
Luminaire Spacing Criterion: 1.12
Luminaire LPW: 83



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
Vertical	0°
0	933
5	929
15	889
25	773
35	518
45	232
55	128
65	72
75	43
85	10
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'	97	79	67
5.0'	62	51	43
6.0'	43	35	30
7.0'	35	28	24
8.0'	28	23	19
9.0'	21	17	14
10.0'	16	13	11

INITIAL FOOTCANDLES

(One Unit, 17.4W, 72.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	58.3	5.9'
6	25.9	8.8'
8	14.6	11.8'
10	9.3	14.7'

LUMINANCE (Average cd/m²)

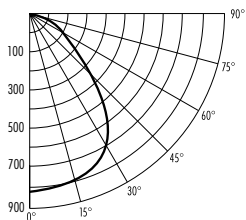
Degrees	Average Luminance
45	31114
55	21096
65	16101
75	15622
85	10749

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	691	N/A	48.0
0-40°	1010	N/A	70.2
0-60°	1311	N/A	91.1
0-90°	1439	N/A	100.0

PHOTOMETRIC REPORT

Test Report #: 25984R
Catalog No: IC20LED G4 14LM 35K
with 204 CWH Trim
and standard wide flood optic
Luminaire Spacing Criterion: 1.24
Luminaire LPW: 89



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
Vertical	0°
0	833
5	828
15	798
25	750
35	613
45	332
55	171
65	82
75	14
85	0
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'	104	85	70
5.0'	67	54	45
6.0'	46	38	31
7.0'	37	31	25
8.0'	30	24	20
9.0'	23	18	15
10.0'	17	14	11

INITIAL FOOTCANDLES

(One Unit, 17.4W, 83.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	52.1	7.2'
6	23.1	10.7'
8	13.0	14.3'
10	8.3	17.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	45713
55	29080
65	18947
75	5354
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	649	N/A	42.1
0-40°	1025	N/A	66.4
0-60°	1440	N/A	93.3
0-90°	1543	N/A	100.0

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.