

JUNO

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

4" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC (LED (G4 06LM) RECESSED HOUSING


SQUARE TRIMS


PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 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, RoHS compliant

PRODUCT SPECIFICATIONS

LED Light Engine LED array attached to high purity aluminum, thermally conductive inner housing provides superior heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to inner housing assembly 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 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 can produce over 600 lumens with select trims (see page 2 for details) using less than 9W*.

Aesthetic Trim Selections Die cast aluminum square downlight, pinhole and lensed trim options • Downlight and pinhole trims feature black insert to minimize glare at the aperture.

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) 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](#) • Mounted inside housing for easy access from below ceiling.

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, damp locations • 12SQ trim listed for wet location (covered ceiling) • 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 1 1/2" ceiling thickness.

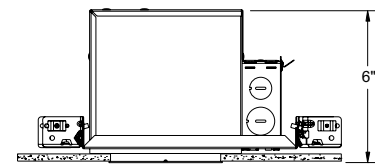
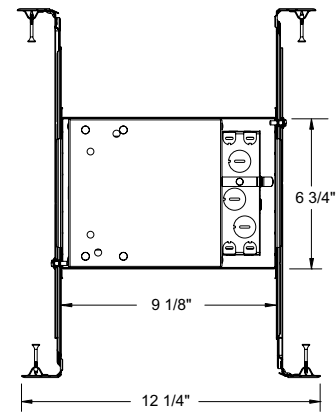
Junction Box Pre-wired junction box provided with (6) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 6 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped 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 Telescoping 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 • Design covered under US Patent D552,969.

* Nominal input wattage @ 120-volt operation with dedicated 120-volt driver under stable operating conditions.

DIMENSIONS



4 1/2" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option

120V	
Input Power	8.6W (+/-5%)
Input Current	0.07A
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	8.7W (+/-5%)	8.9W (+/-5%)
Input Current	0.07A	0.04A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (non-consumer)	FCC Title 47 CFR, Part 15, Class A (non-consumer)
Minimum starting temp	-40°C	-40°C

4" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1 LED (G4 06LM) RECESSED HOUSING
SQUARE TRIMS

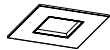
ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC1LED G4 06LM 27K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage	Driver
IC1LED 4" LED IC New Construction Downlight	G4 Generation 4	06LM 600 Nominal Lumens	27K 2700K	90CRI 90+ CRI	120 120V	FRPC Forward/Reverse Phase Cut
			30K 3000K		MVOLT Multi-Volt (120-277V)	
			35K 3500K			
			40K 4000K			

Notes: Order 120 with FRPC only, Order MVOLT with ZT only.

Trim/Description



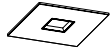
17SQ BWH³ 4" Square Downlight Trim - Black, White Trim Flange

17SQ HZWH² 4" Square Downlight Trim - Haze, White Trim Flange

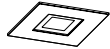


17SQ WHZWH² 4" Square Downlight Trim - Wheat Haze, White Trim Flange

17SQ WWH¹ 4" Square Downlight Trim - White, White Trim Flange



13SQ WH 4" Square Pinhole Trim - White



12SQ WWH 4" Square Frosted Lens with Clear Center Trim - White, White Trim Flange



Trim Size: 5" O.D.

Alzak is a registered trademark of Alcoa Corp.

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

¹ ENERGY STAR® Certified and T24 certified with 120 driver for 30K, 35K and 40K

² ENERGY STAR® Certified with 120 driver for 30K, 35K and 40K

³ Not ENERGY STAR® Certified or T24 certified

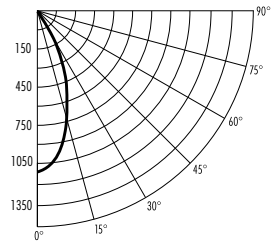
4" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1LED (G4 06LM) RECESSED HOUSING SQUARE TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT03141204
Catalog No: IC1LED G4 06LM 35K
90CRI 120 with 17SQ HZWH Trim
Luminaire Spacing Criterion: 0.62
Luminaire LPW: 59



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1094	
5	1054	
15	720	
25	252	
35	60	
45	22	
55	9	
65	2	
75	0	
85	0	
90	0	

Multiplier: 27K - 0.89
30K - 0.94
40K - 1.03

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	36	31	28
5.0'	23	20	18
6.0'	16	14	13
7.0'	13	11	10
8.0'	10	9	8
9.0'	8	7	6
10.0'	6	5	5

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	433	N/A	85.2
0-40°	479	N/A	94.2
0-60°	505	N/A	99.5
0-90°	508	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 8.6W, 37° Beam)

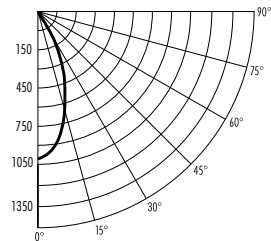
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	68.4	2.7'
6	30.4	4.0'
8	17.1	5.4'
10	10.9	6.7'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	7518
55	3826
65	1212
75	188
85	280

PHOTOMETRIC REPORT

Test Report #: PT03141206
Catalog No: IC1LED G4 06LM 35K
90CRI 120 with 12SQ WWH Trim
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 62



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1044	
5	995	
15	617	
25	234	
35	93	
45	47	
55	26	
65	16	
75	9	
85	4	
90	0	

Multiplier: 27K - 0.89
30K - 0.94
40K - 1.03

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	37	32	28
5.0'	24	20	18
6.0'	16	14	12
7.0'	13	11	10
8.0'	10	9	8
9.0'	8	7	6
10.0'	6	5	4

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	382	N/A	71.3
0-40°	444	N/A	83.0
0-60°	507	N/A	94.6
0-90°	536	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 8.6W, 34.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	65.2	2.5'
6	29.0	3.7'
8	16.3	4.9'
10	10.4	6.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	16105
55	11224
65	8944
75	8103
85	10352

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.