

JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

4" IC 900 LUMEN LED DOWNLIGHT REMODEL

IC 1 RLED (G4 09LM) RECESSED HOUSING



SQUARE TRIMS



PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® remodel housing with integral light engine

- Shallow housing allows for fit in 2 x 6 construction
- IC remodel housing for remodel application where back side of ceiling is not accessible
- Installs through an opening in the ceiling from below
- Secured in place by factory installed remodel springs
- Can be completely covered with insulation
- 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 housing provides superior heat transfer to ensure long life of the LED

- Replaceable light engine mounts directly to 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.

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 on the j-box for easy access and cool operation.

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
- I2SQ 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

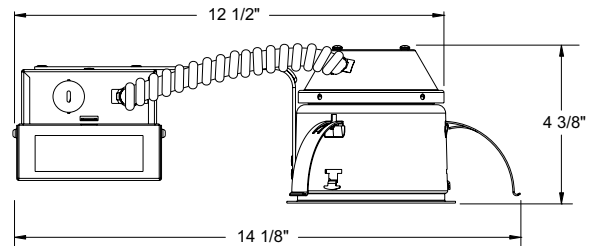
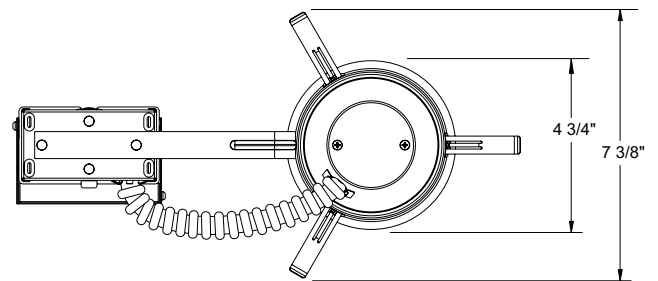
- Aluminum housing sealed for Air-Loc® compliance
- Remodel springs accommodate up to 1 1/2" ceiling thickness.

Junction Box Pre-wired junction box provided with (5) 1/2" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

- Knockouts equipped with pryout slots
- Quick connect electrical connectors supplied as standard for fast, secure installation.

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

DIMENSIONS



4 3/8" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option

120V	
Input Power	11.6W (+/-5%)
Input Current	0.10A
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	12.5W (+/-5%)	12.8W (+/-5%)
Input Current	0.11A	0.07A
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

4" IC 900 LUMEN LED DOWNLIGHT REMODEL

IC1RLED (G4 09LM) RECESSED HOUSING SQUARE TRIMS

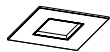
ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC1RLED G4 09LM 27K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage	Driver
IC1RLED 4" LED IC Remodel Downlight	G4 Generation 4	09LM 900 Nominal Lumens	27K 2700K	90CRI 90+ CRI	120 120V	FRPC Forward/Reverse Phase Cut
			30K 3000K		MVOLT Multi-Volt (120-277V)	ZT 0-10V Dimming Driver
			35K 3500K			
			40K 4000K			

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

Trim/Description



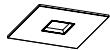
17SQ BWH³ 4" Square Downlight Trim - Black, White Trim Flange

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

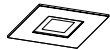


17SQ WHZWH³ 4" Square Downlight Trim - Wheat Haze, White Trim Flange

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 900 LUMEN LED DOWNLIGHT REMODEL

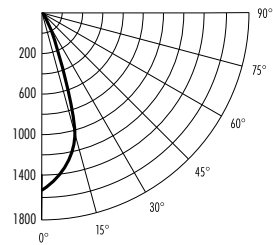
IC1 RLED (G4 09LM) RECESSED HOUSING
SQUARE TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT03141204R
Catalog No: IC1 RLED G4 09LM 35K
90CRI 120 with 17SQ HZWH Trim

Luminaire Spacing Criterion: 0.62
Luminaire LPW: 62



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1543	
5	1486	
15	1015	
25	355	
35	85	
45	31	
55	13	
65	3	
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'	50	44	40
5.0'	32	28	25
6.0'	22	20	18
7.0'	18	16	14
8.0'	14	13	11
9.0'	11	10	9
10.0'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	610	N/A	85.2
0-40°	675	N/A	94.2
0-60°	712	N/A	99.5
0-90°	716	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 11.6W, 37° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	96.4	2.7'
6	42.9	4.0'
8	24.1	5.4'
10	15.4	6.7'

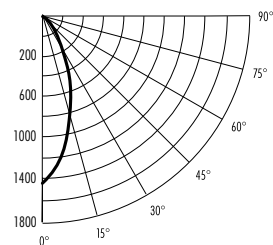
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	10600
55	5395
65	1708
75	266
85	395

PHOTOMETRIC REPORT

Test Report #: PT03141206R
Catalog No: IC1 RLED G4 09LM 35K
90CRI 120 with 12SQ WWH Trim

Luminaire Spacing Criterion: 0.58
Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1471	
5	1403	
15	870	
25	331	
35	131	
45	66	
55	37	
65	22	
75	12	
85	5	
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'	52	45	39
5.0'	33	29	25
6.0'	23	20	17
7.0'	19	16	14
8.0'	15	13	11
9.0'	11	10	9
10.0'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	539	N/A	71.3
0-40°	627	N/A	83.0
0-60°	715	N/A	94.6
0-90°	755	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 11.6W, 34.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	92.0	2.5'
6	40.9	3.7'
8	23.0	4.9'
10	14.7	6.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	22708
55	15825
65	12610
75	11425
85	14597

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.