

# JUNO®

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## 4" IC 900 LUMEN LED DOWNLIGHT REMODEL

IC 1 RLED (G4 09LM) RECESSED HOUSING



## OPEN 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
- Comparable light output to 75W incandescent

### 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 that can produce over 900 lumens with select trims (see page 2 for details) using less than 13W\*.

**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](#)
- 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 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
- Remodel springs accommodate up to 1 1/2" ceiling thickness.

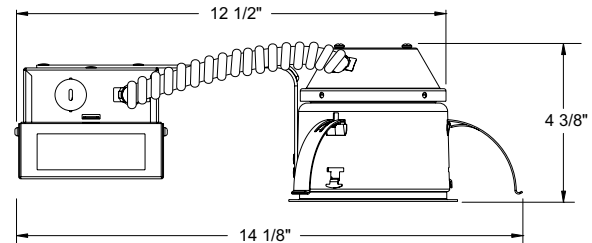
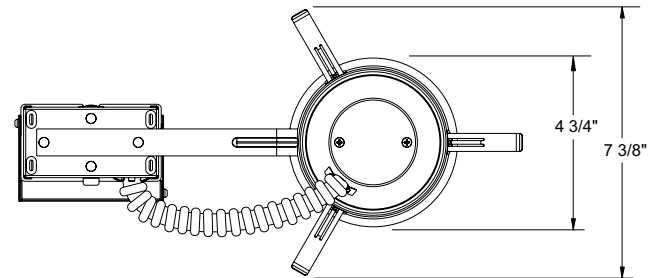
**Junction Box** Pre-wired junction box provided with (5) 1/2" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

- 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

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OPEN TRIMS

## ELECTRICAL DATA

### Dedicated 120V Only Driver Option (120 FRPC)

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


	MVOLT EZ10 and EZ1		MVOLT ZT10 and ZT1	
	120V	277V	120V	277V
Input Power	11.2W (+/-5%)	12.2W (+/-5%)	11.2W (+/-5%)	12.2W (+/-5%)
Input Current	0.10A	0.05A	0.10A	0.05A
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: 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 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), eLdLED 0-10V, 10% dim
					MVOLT EZ1 Multi-Volt (120-277), eLdLED 0-10V, 1% dim

 A+ Capable options indicated by this color background

## Trim/Description

	<b>13 WH</b>	4" Pinhole with Integral Shield - White		<b>4103 FROSTSC<sup>1</sup></b>	4" Decorative Beveled Cylinder Trim - Frosted Glass, Satin Chrome Trim Ring
	<b>14 BABZ<sup>1</sup></b>	4" Downlight Baffle Trim - Black Baffle, Classic Aged Bronze Trim Ring		<b>4103 FROSTWH<sup>1</sup></b>	4" Decorative Beveled Cylinder Trim - Frosted Glass, White Trim Ring
	<b>14 BBL<sup>1</sup></b>	4" Downlight Baffle Trim - Black Baffle, Black Trim Ring			
	<b>14 BSC<sup>1</sup></b>	4" Downlight Baffle Trim - Black Baffle, Satin Chrome Trim Ring			
	<b>14 BWH<sup>1</sup></b>	4" Downlight Baffle Trim - Black Baffle, White Trim Ring		<b>4104 HZSC</b>	4" Decorative Beveled Cone Trim - Haze Cone, Satin Chrome Trim Ring
	<b>14 WWH</b>	4" Downlight Baffle Trim - White Baffle, White Trim Ring		<b>4104 WHZABZ</b>	4" Decorative Beveled Cone Trim - Wheat Haze, Classic Aged Bronze Trim
	<b>17 BWH</b>	4" Downlight Cone Trim - Black Cone, White Trim Ring			
	<b>17 CWH</b>	4" Downlight Cone Trim - Clear Alzak® Cone, White			
	<b>17 GWH</b>	4" Downlight Cone Trim - Gold Cone, White Trim		<b>4150 MESHSC</b>	4" Decorative Glass Cylinder Trim - Mesh Glass, Satin Chrome Trim Ring
	<b>17 HZWH</b>	4" Downlight Cone Trim - Haze Cone, White Trim			
	<b>17 PTSC</b>	4" Downlight Cone Trim - Pewter Cone, Satin Chrome Trim			
	<b>17 WHZABZ</b>	4" Downlight Cone Trim - Wheat Haze Cone, Classic Aged Bronze Trim			
	<b>17 WHZWH</b>	4" Downlight Cone Trim - Wheat Haze Cone, White Trim			
	<b>17 WWH</b>	4" Downlight Cone Trim - White Cone, White Trim Ring			

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.

<sup>1</sup> Multi-Volt: T24 @ 30K, 35K, 40K only

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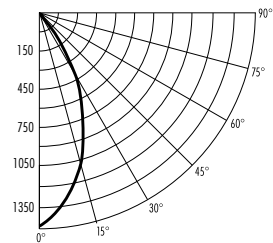
## PHOTOMETRICS

### PHOTOMETRIC REPORT

Test Report #: PT02141303R  
Catalog No: IC1 RLED G4 09LM 35K  
90CRI 120 with 14 WWH Trim

Luminaire Spacing Criterion: 0.72

Luminaire LPW: 81



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1491	
5	1449	
15	1118	
25	600	
35	206	
45	54	
55	22	
65	10	
75	6	
85	1	
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'	65	57	50
5.0'	42	36	32
6.0'	29	25	22
7.0'	23	20	18
8.0'	18	16	14
9.0'	14	12	11
10.0'	10	9	8

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	717	N/A	76.5
0-40°	852	N/A	91.0
0-60°	917	N/A	98.0
0-90°	936	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 11.6W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	93.2	3.2'
6	41.4	4.9'
8	23.3	6.5'
10	14.9	8.1'

### LUMINANCE (Average cd/m<sup>2</sup>)

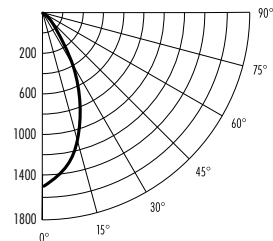
Degrees	Average Luminance
45	12517
55	6382
65	4034
75	4069
85	2014

### PHOTOMETRIC REPORT

Test Report #: LTL26327R  
Catalog No: IC1 RLED G4 09LM 35K  
90CRI 120 with 17 CWH Trim

Luminaire Spacing Criterion: 0.70

Luminaire LPW: 85



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1508	
5	1482	
15	1104	
25	620	
35	254	
45	82	
55	26	
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'	68	59	52
5.0'	44	38	33
6.0'	30	26	23
7.0'	25	21	19
8.0'	19	17	15
9.0'	15	13	11
10.0'	11	10	8

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	725	N/A	73.9
0-40°	887	N/A	90.5
0-60°	977	N/A	99.6
0-90°	981	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 11.6W, 43.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	94.3	3.2'
6	41.9	4.8'
8	23.6	6.4'
10	15.1	8.1'

### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average Luminance
45	18733
55	7144
65	1077
75	0
85	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.