

**JUNO**

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

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

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

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

# 4" IC 600 LUMEN LED DOWNLIGHT REMODEL

IC 1 RLED (G4 06LM) 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 65W 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 600 lumens with select trims (see page 2 for details) using less than 9W\*.

**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.

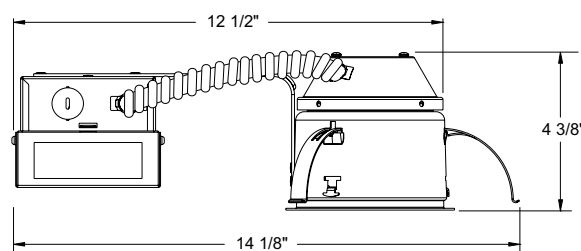
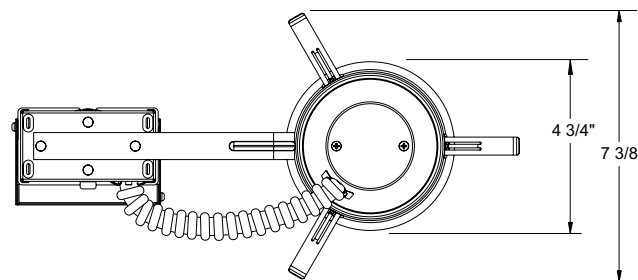
**Junction Box** Pre-wired junction box provided with (5) 1/2" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

- 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	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

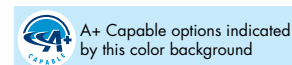
	MVOLT EZ10 and EZ1		MVOLT ZT10 and ZT1	
	120V	277V	120V	277V
Input Power	8.3W (+/-5%)	8.9W (+/-5%)	8.3W (+/-5%)	8.9W (+/-5%)
Input Current	0.07A	0.03A	0.07A	0.03A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	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 06LM 27K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage/Driver
IC1RLED 4" LED IC Remodel Downlight	G4 Generation 4	06LM 600 Nominal Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	90CRI 90+ CRI	<b>120 FRPC</b> 120V Forward/Reverse Phase Cut, 5% dim <b>MVOLT ZT10</b> Multi-Volt (120-277), 0-10V, 10% dim <b>MVOLT ZT1</b> Multi-Volt (120-277), 0-10V, 1% dim <b>MVOLT EZ10</b> Multi-Volt (120-277), eLdoLED 0-10V, 10% dim <b>MVOLT EZ1</b> Multi-Volt (120-277), eLdoLED 0-10V, 1% dim



## 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>4104 HZSC</b>	4" Decorative Beveled Cone Trim - Haze Cone, Satin Chrome Trim Ring
	<b>14 BSC<sup>1</sup></b>	4" Downlight Baffle Trim - Black Baffle, Satin Chrome Trim Ring		<b>4104 WHZABZ</b>	4" Decorative Beveled Cone Trim - Wheat Haze, Classic Aged Bronze Trim
	<b>14 BWH<sup>1</sup></b>	4" Downlight Baffle Trim - Black Baffle, White Trim Ring		<b>4150 MESHSC</b>	4" Decorative Glass Cylinder Trim - Mesh Glass, Satin Chrome Trim Ring
	<b>14 WWH</b>	4" Downlight Baffle Trim - White Baffle, White Trim Ring			
	<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>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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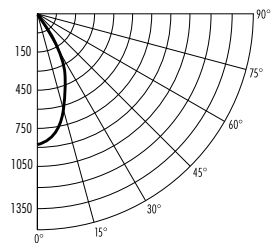
## PHOTOMETRICS

### PHOTOMETRIC REPORT

Test Report #: PT02141303R  
Catalog No: IC1 RLED G4 06LM 35K  
90CRI 120 with 14 WWH Trim

Luminaire Spacing Criterion: 0.72

Luminaire LPW: 76



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1055	
5	1026	
15	791	
25	425	
35	146	
45	38	
55	16	
65	7	
75	5	
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'	46	40	35
5.0'	29	26	23
6.0'	20	18	16
7.0'	17	14	13
8.0'	13	11	10
9.0'	10	9	8
10.0'	7	6	6

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	507	N/A	76.5
0-40°	603	N/A	91.0
0-60°	649	N/A	98.0
0-90°	663	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 8.7W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	65.9	3.2'
6	29.3	4.9'
8	16.5	6.5'
10	10.6	8.1'

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

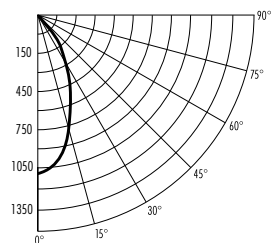
Degrees	Average Luminance
45	8859
55	4517
65	2855
75	2880
85	1425

### PHOTOMETRIC REPORT

Test Report #: LTL26327R  
Catalog No: IC1 RLED G4 06LM 35K  
90CRI 120 with 17 CWH Trim

Luminaire Spacing Criterion: 0.70

Luminaire LPW: 80



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	1072	
5	1054	
15	785	
25	441	
35	181	
45	59	
55	18	
65	0	
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'	48	42	37
5.0'	31	27	24
6.0'	22	19	16
7.0'	17	15	13
8.0'	14	12	11
9.0'	11	9	8
10.0'	8	7	6

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	516	N/A	73.9
0-40°	631	N/A	90.5
0-60°	695	N/A	99.6
0-90°	698	N/A	100.0

### INITIAL FOOTCANDLES (One Unit, 8.7W, 43.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	67.0	3.2'
6	29.8	4.8'
8	16.8	6.4'
10	10.7	8.1'

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

Degrees	Average Luminance
45	13321
55	5080
65	766
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.