

**JUNO**®

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

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

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

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

# 6" IC 600 LUMEN LED DOWNLIGHT REMODEL

IC22RLED (G4 06LM) RECESSED HOUSING

## HYPERBOLIC 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 • When used with supplied ALG kit, stops infiltration and exfiltration of air, reducing heating and air cooling costs • 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 65W BR30 incandescent

### 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.

**Hyperbolic Optical System** Patent pending unique hyperbolic reflector shape optimized for small, directional LED source provides unique aperture appearance with reduced brightness • NMC™ nano mixing chamber (provided with trim) with high reflectance white finish coupled with a high transmission diffusing lens conceals the LED and integrates with the hyperbolic trim to create a low glare, efficient system producing over 600 lumens using less than 9W\*.

**Aesthetic Trim Selections** Hyperbolic reflector available in clear Alzak®, wheat haze, black Alzak® and white • Shadow free, knife edge design blends seamlessly into ceiling • Installs with torsion springs.

**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 between the j-box and housing 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.

Product specifications subject to change without notice.

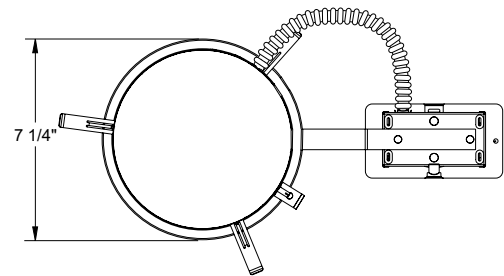
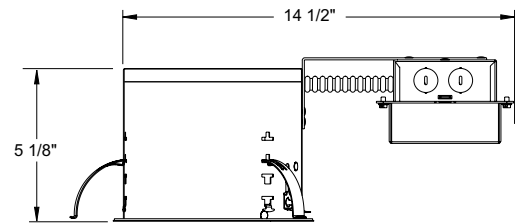
### HOUSING FEATURES

**Housing** Designed for use in IC (insulated ceiling) or non-IC construction Aluminum housing sealed for Air-Loc® compliance when used with ALG kit • Remodel springs accommodate up to 17/8" 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 drive under stable operating conditions.

### DIMENSIONS



6 3/4" CEILING CUTOUT

# 6" IC 600 LUMEN LED DOWNLIGHT REMODEL

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HYPERBOLIC 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: IC22RLED G4 06LM 27K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage/Driver
IC22RLED 6" LED Remodel Downlight	G4 Generation 4	06LM 600 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), eldoLED 0-10V, 10% dim
					MVOLT EZ1 Multi-Volt (120-277), eldoLED 0-10V, 1% dim



A+ Capable options indicated by this color background

## Trim/Description



27HYP2 BWH <sup>1</sup>	Black Alzak® Cone, White Trim Ring
27HYP2 CWH	Clear Alzak® Cone, White Trim Ring
27HYP2 HZWH	Haze Cone, White Trim Ring
27HYP2 WHZABZ	Wheat Haze Cone, Classic Aged Bronze Trim Ring
27HYP2 WHZWH	Wheat Haze Cone, White Trim Ring
27HYP2 WWH	White Cone, White Trim Ring

Trim Size: 7 5/8" 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> Not ENERGY STAR® Certified or T24 certified

## Accessories

Catalog Number	Description
TR6 ABZ	6" Trim Ring - Classic Aged Bronze
TR6 BL	6" Trim Ring - Black
TR6 SC	6" Trim Ring - Satin Chrome
TR6 WH	6" Trim Ring - White

To order, specify catalog number.

# 6" IC 600 LUMEN LED DOWNLIGHT REMODEL

## IC22RLED (G4 06LM) RECESSED HOUSING HYPERBOLIC TRIMS

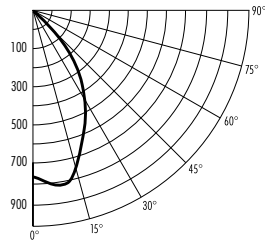
### PHOTOMETRICS

#### PHOTOMETRIC REPORT

**Test Report #:** PT02141402  
**Catalog No:** IC22RLED G4 06LM 35K  
with 27HYP2 CWH Trim and standard  
nano mixing chamber

**Luminaire Spacing Criterion:** 0.98

**Luminaire LPW:** 86



#### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
<b>Vertical</b>	<b>0°</b>
0	776
5	810
15	752
25	550
35	253
45	53
55	0
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'	51	45	39
5.0'	33	29	25
6.0'	23	20	17
7.0'	18	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°	535	N/A	72.3
0-40°	695	N/A	93.9
0-60°	740	N/A	100.0
0-90°	740	N/A	100.0

#### INITIAL FOOTCANDLES (One Unit, 8.6W , 60.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	43.1	4.7'
6	19.2	7.0'
8	10.8	11.7'
10	6.9	16.7'

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

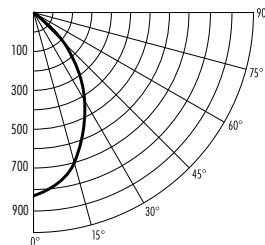
Degrees	Average Luminance
45	4105
55	0
65	0
75	0
85	0

#### PHOTOMETRIC REPORT

**Test Report #:** PT02141403  
**Catalog No:** IC22RLED G4 06LM 35K  
with 27HYP2 HZWH Trim and standard  
nano mixing chamber

**Luminaire Spacing Criterion:** 0.908

**Luminaire LPW:** 84



#### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
<b>Vertical</b>	<b>0°</b>
0	838
5	822
15	705
25	528
35	255
45	55
55	0
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'	50	43	38
5.0'	32	28	24
6.0'	22	19	17
7.0'	18	16	14
8.0'	14	12	11
9.0'	11	9	8
10.0'	8	7	6

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	514	N/A	71.2
0-40°	674	N/A	93.3
0-60°	722	N/A	100.0
0-90°	722	N/A	100.0

#### INITIAL FOOTCANDLES (One Unit, 8.6W , 59.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	52.4	4.6'
6	23.3	6.9'
8	13.1	9.2'
10	8.4	11.5'

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

Degrees	Average Luminance
45	4291
55	10
65	0
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.