

# JUNO®

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

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

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

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

## 6" IC 900 LUMEN LED DOWNLIGHT REMODEL

IC22RLED (G4 09LM) 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 75W PAR30 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** 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.

**Aesthetic Trim Selections** Hyperbolic reflector available in clear Alzak®, haze, 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 (120V) 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, through-branch wiring and damp locations • Union made • UL and cUL.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

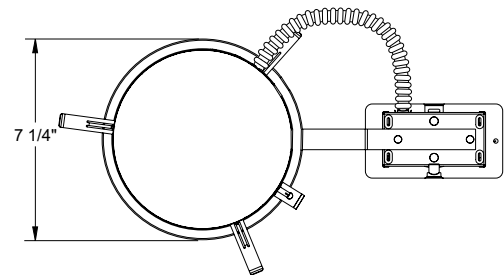
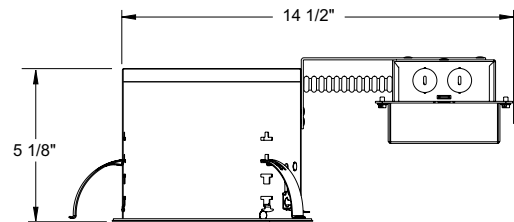
Specifications subject to change without notice.

### HOUSING FEATURES

**Housing** Designed for use in IC (insulated ceiling) or non-IC construction Aluminum housing sealed for Air-Loc® compliance when used with ALG kit • Remodel springs accommodate up to 1 7/8" 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.

### DIMENSIONS



6 3/4" CEILING CUTOUT

# 6" IC 900 LUMEN LED DOWNLIGHT REMODEL

## IC22RLED (G4 09LM) RECESSED HOUSING HYPERBOLIC TRIMS

### ELECTRICAL DATA

Dedicated 120V Only Driver Option (120 FRPC)	
120V	
Input Power	11.5W (+/-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

	MVOLT EZ10 and EZ1		MVOLT ZT10 and ZT1	
	120V	277V	120V	277V
Input Power	10.8W (+/-5%)	11.8W (+/-5%)	10.8W (+/-5%)	11.8W (+/-5%)
Input Current	0.09A	0.05A	0.09A	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:** IC22RLED G4 09LM 27K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage/Driver
IC22RLED 6" LED Remodel Downlight	G4 Generation 4	09LM 900 Nominal Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	90CRI 90+ CRI	120 FRPC 120V Forward/Reverse Phase Cut, 5% dim MVOLT ZT10 Multi-Volt (120-277), 0-10V, 10% dim MVOLT ZT1 Multi-Volt (120-277), 0-10V, 1% dim MVOLT EZ10 Multi-Volt (120-277), eidoLED 0-10V, 10% dim MVOLT EZ1 Multi-Volt (120-277), eidoLED 0-10V, 1% dim



A+ Capable options indicated by this color background

### Trim/Description



<b>27HYP3 BWH</b> <sup>1</sup>	Black Cone, White Trim Ring
<b>27HYP3 CWH</b>	Clear Alzak® Cone, White Trim Ring
<b>27HYP3 HZWH</b>	Haze Cone, White Trim Ring
<b>27HYP3 WHZABZ</b>	Wheat Haze Cone, Classic Aged Bronze Trim Ring
<b>27HYP3 WHZWH</b>	Wheat Haze Cone, White Trim Ring
<b>27HYP3 WWH</b>	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

<sup>2</sup> Multi-Volt: ENERGY STAR® Certified and T24 certified @ 35K, 40K only

<sup>3</sup> Multi-Volt: ENERGY STAR® Certified and T24 certified @ 30K, 35K, 40K only

### Accessories

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

To order, specify catalog number.

# 6" IC 900 LUMEN LED DOWNLIGHT REMODEL

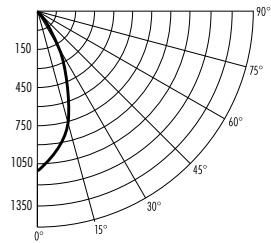
## IC22RLED (G4 09LM) RECESSED HOUSING HYPERBOLIC TRIMS

### PHOTOMETRICS

#### PHOTOMETRIC REPORT

Test Report #: PT06142504R  
Catalog No: IC22RLED G4 09LM 30K  
with 27HYP3 HZWH Trim

Luminaire Spacing Criterion: 0.66  
Luminaire LPW: 60



#### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	1105
5	1061
15	758
25	384
35	140
45	44
55	14
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'	48	42	37
5.0'	31	27	24
6.0'	21	19	16
7.0'	17	15	13
8.0'	14	12	10
9.0'	10	9	8
10.0'	8	7	6

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	520	N/A	74.8
0-40°	632	N/A	91.1
0-60°	690	N/A	99.4
0-90°	694	N/A	100.0

#### INITIAL FOOTCANDLES (One Unit, 11.5W, 44.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	69.1	3.3'
6	30.7	4.9'
8	17.3	6.5'
10	11.1	8.1'

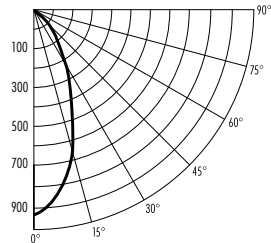
#### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average Luminance
45	18730
55	7223
65	1929
75	262
85	0

#### PHOTOMETRIC REPORT

Test Report #: PT06142604R  
Catalog No: IC22RLED G4 09LM 30K  
with 27HYP3 WWH Trim

Luminaire Spacing Criterion: 0.68  
Luminaire LPW: 60



#### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	930
5	903
15	672
25	346
35	153
45	65
55	33
65	18
75	10
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'	48	41	35
5.0'	31	26	22
6.0'	21	18	16
7.0'	17	15	13
8.0'	14	12	10
9.0'	10	9	8
10.0'	8	7	6

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	462	N/A	66.5
0-40°	572	N/A	82.3
0-60°	660	N/A	95.1
0-90°	694	N/A	100.0

#### INITIAL FOOTCANDLES (One Unit, 11.5W, 46.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	58.1	3.5'
6	25.8	5.2'
8	14.5	6.9'
10	9.3	8.6'

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

Degrees	Average Luminance
45	22527
55	13958
65	10196
75	9022
85	11801

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.