



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

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

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

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

# 5" IC 900 LUMEN LED DOWNLIGHT REMODEL

IC2ORLED (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 (120) volt 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 baffle and cone 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
- 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

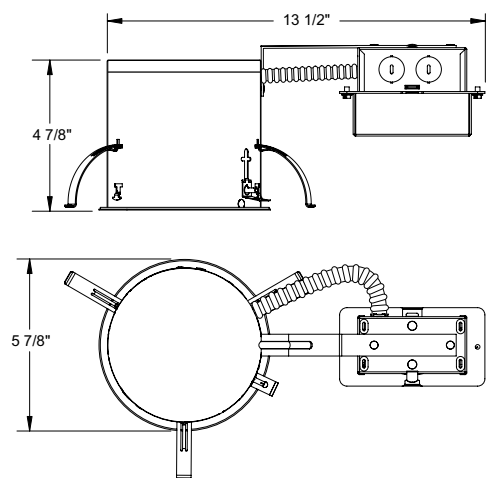
- Aluminum housing sealed for Air-Loc® compliance when used with ALG kit
- Remodel springs accommodate up to 1 1/8" ceiling thickness.

**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



5 1/2" CEILING CUTOUT

# 5" IC 900 LUMEN LED DOWNLIGHT REMODEL

IC20RLED (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

### Universal Voltage

	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: IC20RLED G4 09LM 30K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage/Driver
IC20RLED 5" 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), 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



<b>204HYP3 BWH</b> <sup>1</sup>	5" Hyperbolic Cone Trim - Black Alzak® Cone, White Trim Ring
<b>204HYP3 CWH</b> <sup>3</sup>	5" Hyperbolic Cone Trim - Clear Alzak Cone, White Trim Ring
<b>204HYP3 HZWH</b> <sup>4</sup>	5" Hyperbolic Cone Trim - Haze Cone, White Trim Ring
<b>204HYP3 WHZABZ</b> <sup>1</sup>	5" Hyperbolic Cone Trim - Wheat Haze Cone, Classic Aged Bronze Trim Ring
<b>204HYP3 WHZWH</b> <sup>1</sup>	5" Hyperbolic Cone Trim - Wheat Haze Cone, White Trim Ring
<b>204HYP3 WWH</b> <sup>2</sup>	5" Hyperbolic Cone Trim - White Cone, White Trim Ring

Trim Size: 6 1/4" 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> MVOLT: Not ENERGY STAR® Certified or T24 certified

<sup>3</sup> MVOLT: ENERGY STAR® Certified and T24 certified @ 35K, 40K only

<sup>4</sup> MVOLT: ENERGY STAR® Certified and T24 certified @ 40K only

## Accessories (ordered separately)

Catalog Number	Description
<b>TR5 ABZ</b>	5" Trim Ring - Classic Aged Bronze
<b>TR5 BL</b>	5" Trim Ring - Black
<b>TR5 SC</b>	5" Trim Ring - Satin Chrome
<b>TR5 WH</b>	5" Trim Ring - White

To order, specify catalog number.

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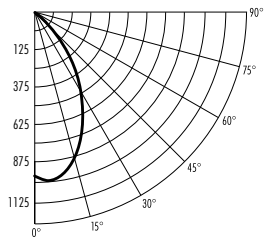
## PHOTOMETRIC REPORT

Test Report #: PT03140404

Catalog No: IC20RLED G4 09LM 35K  
with 204HYP3 CWH Trim  
and standard nano mixing  
chamber

Luminaire Spacing Criterion: 0.94

Luminaire LPW: 77



## CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
Vertical	0°
0	960
5	990
15	893
25	644
35	303
45	61
55	0
65	0
75	0
85	0
90	0
Multiplier: 27K - 0.93	
30K - 0.99	
40K - 1.01	

## AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	61	53	47
5.0'	39	34	30
6.0'	27	24	21
7.0'	22	19	17
8.0'	17	15	13
9.0'	13	12	10
10.0'	10	9	7

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	635	N/A	72.1
0 - 40°	827	N/A	93.9
0 - 60°	880	N/A	100.0
0 - 90°	880	N/A	100.0

## INITIAL FOOTCANDLES

(One Unit, 11.5W, 59.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	60.0	4.6'
6	26.7	6.9'
8	15.0	9.2'
10	9.6	11.5'

## LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	8200
55	16
65	0
75	0
85	0

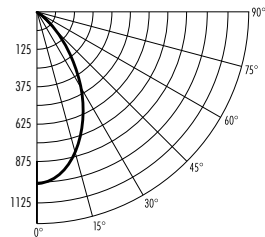
## PHOTOMETRIC REPORT

Test Report #: PT03140405

Catalog No: IC20RLED G4 09LM 35K  
with 204HYP3 HZWH Trim  
and standard nano mixing  
chamber

Luminaire Spacing Criterion: 0.88

Luminaire LPW: 74



## CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
Vertical	0°
0	1011
5	993
15	839
25	618
35	296
45	108
55	1
65	0
75	0
85	0
90	0
Multiplier: 27K - 0.93	
30K - 0.99	
40K - 1.01	

## AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	59	51	45
5.0'	38	33	29
6.0'	26	23	20
7.0'	21	18	16
8.0'	17	15	13
9.0'	13	11	10
10.0'	9	8	7

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	608	N/A	71.4
0 - 40°	795	N/A	93.3
0 - 60°	852	N/A	100.0
0 - 90°	852	N/A	100.0

## INITIAL FOOTCANDLES

(One Unit, 11.5W, 59.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	63.2	4.6'
6	28.1	6.9'
8	15.8	9.2'
10	10.1	11.5'

## LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	8727
55	93
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.