JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Patent pending dedicated LED, Air-Loc® remodel housing with integral internally adjustable light engine • IC4RAL series can be completely covered with insulation and installs in shallow 2 x 6 construction • TC4RAL series for use in non-insulated areas (If installed where insulation is present, the insulation must be pulled back 3" from all sides of the TC housing) • 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 • LED housing is designed to provide 50,000 hours of life • 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 cast aluminum sliding heatsink integrated directly with housing provides superior heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to inner 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.

Optics Three field interchangeable, TIR optics available in 18°, 30° and 40° beam angles • Module can accommodate one 2-inch diameter beam control lens or filter • Adjustable light engine module provides up to 35° vertical adjustment and 360° rotation.

Aesthetic Trim Selections Aluminum angle-cut reflector in clear, black, pewter, white, haze and wheat haze • Shadow free, knife edge design blends seamlessly into ceiling.

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates 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 driver is dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see <u>JUNOICLED-DIM</u>.

Life Rated for 50,000 hours at 70% lumen maintenance.

Labels ENERGY STAR[®] Certified ● Certified to the high efficacy requirements of California T24 JA8-2016● UL listed for U.S. and Canada for 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 IC4RAL designed for use in IC (insulated ceiling) or non-IC construction • TC4RAL designed for use in non-IC construction
 Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1½" ceiling thickness.

Junction Box Pre-wired junction box provided with (5) $\frac{1}{2}$ " knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire \bullet Junction box provided with removable access plates \bullet Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

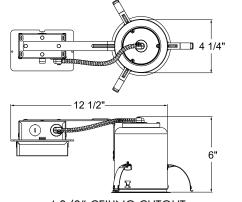
G1.7.77 **4" IC AND TC 700 LUMEN** INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

IC4RAL, TC4RAL (07LM) RECESSED HOUSING ANGLE CUT TRIMS





DIMENSIONS



4 3/8" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V	Only Driver Option (120V	(120)
Input Power	10.5W (+/-5%)	
Input Current	0.10A	
Frequency	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15,	
	Class B (Residential)	
Minimum starting temp	-25°C (-13°F)	
Universal Voltage	e Driver (MVOLT ZT)	
-	120V	277V
Input Power	10.0W (+/-5%)	10.0W (+/-5%)
Input Current	0.04A	0.09A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class A (Commercial)	Class A (Commercial)
Minimum starting temp	-20°C (-4°F)	-20°C (-4°F)
Lutron Hi-Lume _* L	ED Driver (MVOLT E	COD)
	120V	277V
Input Power	11.1W (+/-5%)	11.3W (+/-5%)
Input Current	0.10Å	0.05Å
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class A (Commercial)	Class A (Commercial)
Minimum starting temp	0°C (32°F)	0°C (32°F)

4" IC AND TC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

IC4RAL (07LM), TC4RAL (07LM) RECESSED HOUSING ANGLE CUT TRIMS

ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC4RAL 07LM 30K 90CRI FL 120 FRPC

Series		Lumens	Color Temperature	CRI	Distribution	Voltage	Driver
IC4RAL	4" LED Internally Adjustable	07LM 700 Nominal Lumens	27K 2700K	90CRI 90+ CRI	FL Flood	120 120V	FRPC Forward/ Reverse Phase Cut
	Remodel IC Downlight		30K 3000K		NFL Narrow Flood	MVOLT Multi-Volt	ZT 0 - 10V Dimming Driver
			35K 3500K		SP Spot	(120-277V)	
			40K 4000K				
		ECOD				lotes: 120 must be ordered with I	RPC. MVOLT must be ordered with ZT

Example: TC4RAL 07LM 30K 90CRI FL MVOLT ECOD

47L BWH

47L CWH

47L HZWH

47L PTSC

47L WHZBRZ

47L WHZWH

47L WWH

Series		Lumen	S	Colo	r Temperature	CRI		Dist	ribution	Voltage)	Driver	
TC4RAL	4" LED Internally Adjustable	07LM	700 Nominal Lumens	27K	2700K	90CRI	90+ CRI	FL	Flood	MVOLT	Multi-Volt	ECOD †	Lutron Hi-Lume EcoSystem, 1% Dimming
	Remodel Non IC Downlight			30K	3000K			NFL	Narrow Flood				
				35K	3500K			SP	Spot				
				40K	4000K								

Trim/Description



4" Adjustable Angle Cut Coned Trim - Black Alzak \circledast Cone, White Trim Ring 4" Adjustable Angle Cut Coned Trim - Clear Alzak \circledast Cone, White Trim Ring

4" Adjustable Angle Cut Coned Trim - Haze Cone, White Trim Ring

4" Adjustable Angle Cut Coned Trim - Pewter Alzak® Cone, Satin Chrome Trim Ring

4" Adjustable Angle Cut Coned Trim - Wheat Haze Cone, Bronze Trim Ring

- 4" Adjustable Angle Cut Coned Trim Wheat Haze Cone, White Trim Ring
- 4" Adjustable Angle Cut Coned Trim Gloss 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.

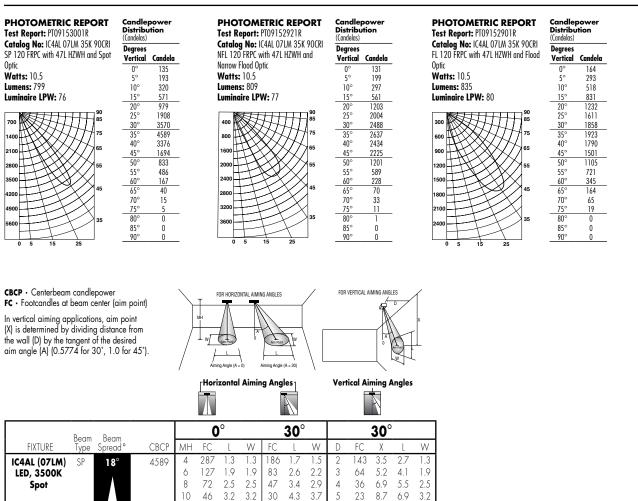
†: ECOD driver not ENERGY STAR® certified

Catalog Number	Description				
CGF 200 MPINK	Color Glass Filter - 2″ Diameter - Medium Pink				
CGF 200 WRED	Color Glass Filter - 2" Diameter - Warm Red				
CGF 200 DLTBLUE	Color Glass Filter - 2″ Diameter - Daylight Blue				
CGF 200 MBLU	Color Glass Filter - 2" Diameter - Medium Blue				
CGF 200 MAMB	Color Glass Filter - 2" Diameter - Medium Amber				
CGF 200 MGRN	Color Glass Filter - 2" Diameter - Medium Green				
DGF 200 DRED	Dichroic Glass Filter - 2" Diameter Red				
DGF 200 MGRN	Dichroic Glass Filter - 2" Diameter Medium Green				
DGF 200 MBLU	Dichroic Glass Filter - 2" Diameter Medium Blue				
DGF 200 DYEL	Dichroic Glass Filter - 2" Diameter Yellow (Dichroic)				
DGF 200 MAGEN	Dichroic Glass Filter - 2" Diameter Magenta				
DGF 200 CYAN	Dichroic Glass Filter - 2″ Diameter Cyan				
DCCF 200 HL4250	Dichroic Color Correction Filter - 2" Diameter - Halogen - to - Daylight				
DIFF 200	Diffusion Glass Lens - 2" Diameter				
UVF 200	UV Filter Lens - 2" Diameter				
HCLBL 200	Hexagonal Cell Louver - Black - 2″ Diameter				
LSPREAD 200	Linear Spread Glass Lens - 2″ Diameter				
PRISM 200	Prismatic Glass Lens - 2" Diameter				
TIR2 SPT	TIR Optic - Spot				
TIR2 NFLD	TIR Optic - Narrow Flood				
FIR2 FLD	TIR Optic - Flood				

4" IC AND TC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

IC4RAL (07LM), TC4RAL (07LM) RECESSED HOUSING

ANGLE CUT TRIMS



12 32 3.8 3.8 21 5.1 4.4 6 16 10.4 8.2 3.8

6

8

10 26 5.4 5.4 17 7.3 6.2 5 13 8.7 13.7 5.4

12 18

4

6 53 4.4 4.4 35 6.1 5.0 3 27 5.2

8 30 5.8 5.8 20 8.1 6.7 4 15 6.9 19.3 5.8

10 19

73 3.2 3.2 48 4.4 3.7 3 37 5.2 8.2 3.2

41

120 29 29 78

4.3 4.3

64 64

7.3 7.3

87

27 5.9 5.0

12 8.8 7.4

12

87 9

4.1

10.2

12.2 10.

21 6.9 10.9

9 10.4 16.4

10

7

3.5 9.7 2.9

8.7

10.4

4.3

6.4

7.3

14.5 4.4

24.2

29.0 8.7

4

6

2 60

34

8.4 5

2637 4 165 2.1 2.1 107 2.9 2.5 2 82 3.5 5.5 2.1

1923

IC4AL (07LM) NFL

LED, 3500K

Narrow Flood

IC4AL (07LM)

LED, 3500K

Flood

Multipliers:

FL

27K - 0.93 30K - 0.96 35K - 1.00 40K - 1.03 30

40°