# G1.7.79

REMODEL

# 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 LED Light Engine LED array affached to cast aluminum sitting heats 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 4100K 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 Adjustable slot aperture features a white trim ring • Shadow free, knife edge design blends seamlessly into ceilina.

**LED Driver** Choice of dedicated 120 volt driver or universal voltage 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 JUNOICLED-DIM

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

Product specifications subject to change without notice.

# HOUSING FEATURES

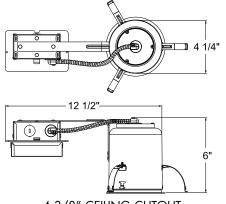
Housing IC4RAL designed for use in IC (insulated ceiling) or non-IC construction • TC4RAL designed for use in non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1½" ceiling thickness.

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  $\bullet$  Quick connect electrical connectors supplied as standard for fast, secure installation.



LED DOWNLIGHT

# DIMENSIONS



4" IC AND TC 700 LUMEN

INTERNALLY ADJUSTABLE

IC4RAL, TC4RAL RECESSED HOUSING

SLOT ADJUSTABLE TRIMS

4 3/8" CEILING CUTOUT

#### FIECTRICAL DATA

ELECTRICAL DA		
Dedicated 120V	Only Driver Option 120V	(-1)
Innut Dawar	-	
Input Power	<u>10.5W (+/-5%)</u>	
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 Voltag	e Driver (-U)	
•	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®	LED Driver (-L)	
	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)

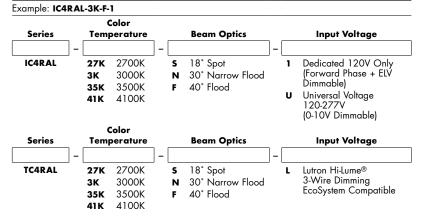


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# 4" IC AND TC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

IC4RAL, TC4RAL RECESSED HOUSING SLOT ADJUSTABLE TRIMS

**ORDERING INFORMATION:** Housing and trim each ordered separately.



Example: 45L-WH

		Trim/Description
	45L-WH	Slot Aperture Downlight or Adjustable
S.B		

Trim Size: 5" O.D.

Trim Finish: WH - White. Note: In Canada when insulation is present, Type IC fixtures must be used.

# ACCESSORIES

ACCESSORI	EJ						
Catalog No.	Description Med. Pink Color Filter						
T741							
T742	Warm Red Color Filter						
T743	Daylight Blue Color Filter Med. Blue Color Filter						
T744							
T745	Med. Amber Color Filter						
T746	Med. Green Color Filter						
T7401	Red Dichroic Lens						
T7403	Med. Green Dichroic Lens						
T7404	Med. Blue Dichroic Lens						
T7405	Yellow Dichroic Lens						
T7406	Magenta Dichroic Lens						
T7411	Blue Green Dichroic Lens						
T7416	Daylight Blue Correction Lens						
T7420	Diffuse Spread Lens						
T7422	UV Filter Lens						
T7459BL	Hexcell Louver						
T7478	Linear Spread Lens						
T7477	Prismatic Lens						
TIR-2-SP	18° Spot Optic						
TIR-2-NFL	30° Narrow Flood Optic						
TIR-2-FL	40° Flood Optic						
	•						

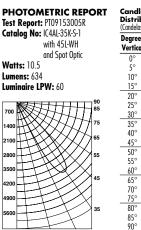


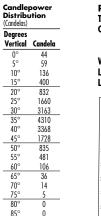
## G1.7.79

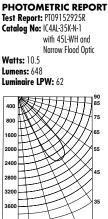
# 4" IC AND TC 700 LUMEN **INTERNALLY ADJUSTABLE** LED DOWNLIGHT REMODEL

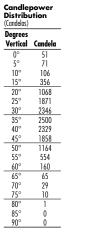
IC4RAL, TC4RAL RECESSED HOUSING **SLOT ADJUSTABLE TRIMS** 

PHOTOMETRIC REPORT









300

600

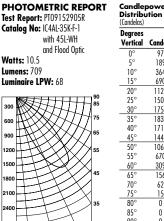
900

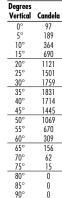
120

1500

180

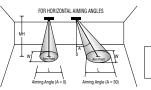
210





#### **CBCP** · Centerbeam candlepower FC · Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Horizontal Aiming Angles

 $\overline{A}$ 



FOR VERTICAL AIMING ANGLES

**Vertical Aiming Angles** 

				$\mathbf{\Lambda}$							N				
	Beam Beam			<b>0</b> °				30°			30°				
FIXTURE	Type	Spread®	CBCP	MH	FC	L	W	FC	L	W	D	FC	Х	L	W
IC4AL	S	18°	4310	4	269	1.3	1.3	175	1.7	1.5	2	135	3.5	2.7	1.
LED, 3500K				6	120	1.9	1.9	78	2.6	2.2	3	60	5.2	4.1	1.
Spot				8	67	2.5	2.5	44	3.4	2.9	4	34	6.9	5.5	2.
				10	43	3.2	3.2	28	4.3	3.7	5	22	8.7	6.9	3.
				12	30	3.8	3.8	19	5.1	4.4	6	15	10.4	8.2	3.
IC4AL	Ν	30°	2499	4	156	2.1	2.1	101	2.9	2.5	2	78	3.5	5.5	2
LED, 3500K				6	69	3.2	3.2	45	4.4	3.7	3	35	5.2	8.2	3.
Narrow				8	39	4.3	4.3	25	5.9	5.0	4	20	6.9	10.9	4
Flood				10	25	5.4	5.4	16	7.3	6.2	5	12	8.7	13.7	5.
				12	17	6.4	6.4	11	8.8	7.4	6	9	10.4	16.4	6.
IC4AL	F	40°	1831	4	114	2.9	2.9	74	4.1	3.4	2	57	3.5	9.7	2.
LED, 3500K				6	51	4.4	4.4	33	6.1	5.0	3	25	5.2	14.5	4
Flood				8	29	5.8	5.8	19	8.1	6.7	4	14	6.9	19.3	5.
				10	18	7.3	7.3	12	10.2	8.4	5	9	8.7	24.2	7.
				12	13	8.7	8.7	8	12.2	10.1	6	6	10.4	29.0	8.

3K - 0.96 35K - 1.00 41K - 1.03



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