JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

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

IC4RAL, TC4RAL (07LM) RECESSED HOUSING

SLOT ADJUSTABLE TRIMS

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 diuminum sliding heatsini 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 Adjustable slot aperture features a white trim ring • 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 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. Specifications subject to change without notice.

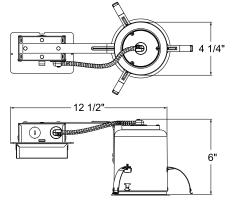
HOUSING FEATURES

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) ½" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.



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 Voltag	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 [®] I	LED Driver (MVOLT E	COS3)
	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)

SecurityBrands.

G1.7.79

G1.7.79 4" IC AND TC 700 LUMEN INTERNALLY ADJUSTABLE **LED DOWNLIGHT** REMODEL

IC4RAL (07LM), TC4RAL (07LM) RECESSED HOUSING **SLOT ADJUSTABLE 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	ies Lumens		Color Temperature	CRI	Distribution	Voltage	Driver	
	ally Adjustable	07LM 700 Nominal Lumens	27K 2700K	90CRI 90+ CRI	FL Flood	120 120V	FRPC Forward/ Reverse Phase Cut	
Remodel IC D	ownlight		30K 3000K		NFL Narrow Flood	MVOLT Multi-Volt	ZT 0 - 10V Dimming Driver	
			35K 3500K		SP Spot	(120-277V)		
			40K 4000K					
Notes: 120 must be ordered with FRPC. MVOIT must be ordered 7T								

Example: TC4RAL 07LM 30K 90CRI FL MVOLT ECOS3

must be ordered with FRPC. MVOLI must be ordered ZI

Series		Lumens	Color Temperature	CRI	Distribution	Voltage	Driver
TC4RAL		07LM 700 Nominal Lumens	27K 2700K	90CRI 90+ CRI	FL Flood	MVOLT Multi-Volt	ECOS3 Lumen Hi - Lume A Series, 3-wire
	Remodel Non IC Downlight		30K 3000K		NFL Narrow Flood		fluorescent controls & Lutron Ecosystem
			35K 3500K		SP Spot		
			40K 4000K				

Trim/Description

45L WH 4" Adjustable Slot Trim - White

Trim Size: 5" O.D. Note: In Canada when insulation is present, Type IC fixtures must be used.

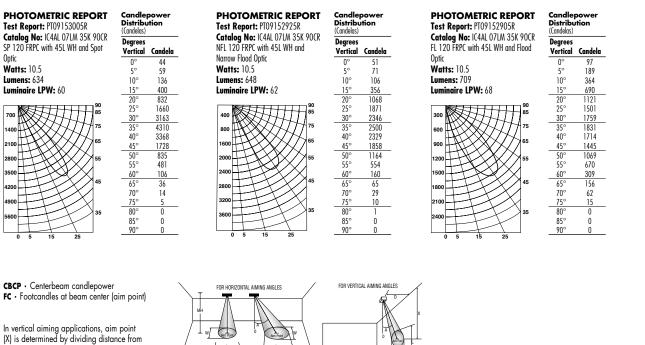
Accessories (ordered senarately)

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
TIR2 FLD	TIR Optic - Flood

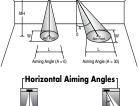
4" IC AND TC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

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

SLOT ADJUSTABLE TRIMS



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°).





				0 °				30°			30 °				
FIXTURE	Doom	Page	CBCP												
	Beam Type	Beam Spread®		MH	FC	L	W	FC	L	W	D	FC	Х	L	W
IC4AL (07LM)	SP	18°	4310	4	269	1.3	1.3	175	1.7	1.5	2	135	3.5	2.7	1.3
LED, 3500K				6	120	1.9	1.9	78	2.6	2.2	3	60	5.2	4.1	1.9
Spot				8	67	2.5	2.5	44	3.4	2.9	4	34	6.9	5.5	2.5
•				10	43	3.2	3.2	28	4.3	3.7	5	22	8.7	6.9	3.2
				12	30	3.8	3.8	19	5.1	4.4	6	15	10.4	8.2	3.8
IC4AL (07LM)	NF	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	3.2
Narrow Flood				8	39	4.3	4.3	25	5.9	5.0	4	20	6.9	10.9	4.3
				10	25	5.4	5.4	16	7.3	6.2	5	12	8.7	13.7	5.4
				12	17	6.4	6.4	11	8.8	7.4	6	9	10.4	16.4	6.4
IC4AL (07LM)	FL	40°	1831	4	114	2.9	2.9	74	4.1	3.4	2	57	3.5	9.7	2.9
LED, 3500K				6	51	4.4	4.4	33	6.1	5.0	3	25	5.2	14.5	4.4
Flood				8	29	5.8	5.8	19	8.1	6.7	4	14	6.9	19.3	5.8
				10	18	7.3	7.3	12	10.2	8.4	5	9	8.7	24.2	7.3
				12	13	8.7	8.7	8	12.2	10.1	6	6	10.4	29.0	8.7

Multipliers: 2/K - 0.93 30K - 0.96 35K - 1.00

35K - 1.00 40K - 1.03
