



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

IC4RAL, TC4RAL RECESSED HOUSING
LENSED TRIMS



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 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 perimeter frosted lensed trim • Shadow free, knife edge design blends seamlessly into ceiling • Trims are wet location approved for covered ceiling applications.

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 wet locations (covered ceilings) • 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.

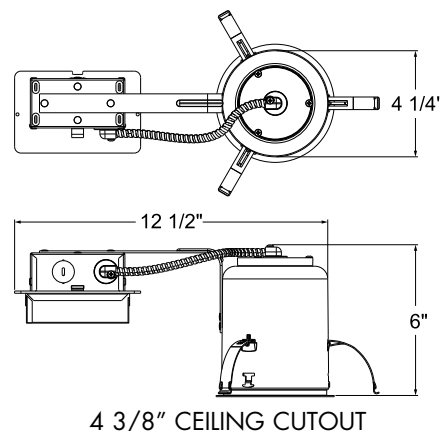
HOUSING FEATURES

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 1 1/2" 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 • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.



DIMENSIONS



ELECTRICAL DATA

Dedicated 120V Only Driver Option (-1)

120V	
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 Driver (-U)

120V	277V
Input Power	10.0W (+/-5%)
Input Current	0.04A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (Commercial)
Minimum starting temp	-20°C (-4°F)

Lutron Hi-Lume® LED Driver (-L)

120V	277V
Input Power	11.1W (+/-5%)
Input Current	0.10A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (Commercial)
Minimum starting temp	0°C (32°F)

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ORDERING INFORMATION: Housing and trim each ordered separately.

Example: **IC4RAL-3K-F-1**

Series	Color Temperature	Beam Optics	Input Voltage
IC4RAL	27K 2700K 3K 3000K 35K 3500K 41K 4100K	S 18° Spot N 30° Narrow Flood F 40° Flood	1 Dedicated 120V Only (Forward Phase + ELV Dimmable) U Universal Voltage 120-277V (0-10V Dimmable)

Series	Color Temperature	Beam Optics	Input Voltage
TC4RAL	27K 2700K 3K 3000K 35K 3500K 41K 4100K	S 18° Spot N 30° Narrow Flood F 40° Flood	L Lutron Hi-Lume® 3-Wire Dimming EcoSystem Compatible

Example: **41L-WH**

Trim/Description
 41L-ABZ Frosted Perimeter Lens 41L-SC 41L-WH

Trim Size: 5" O.D.

Trim Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White.

Note: In Canada when insulation is present, Type IC fixtures must be used.

ACCESSORIES

Catalog No.	Description
T741	Med. Pink Color Filter
T742	Warm Red Color Filter
T743	Daylight Blue Color Filter
T744	Med. Blue Color Filter
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

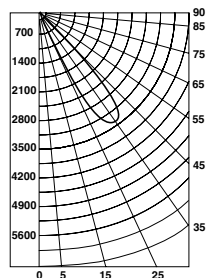
4" IC AND TC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

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PHOTOMETRIC REPORT

Test Report: PT09153003R
Catalog No: IC4AL-35K-S-1
with 41L-WH
and Spot Optic

Watts: 10.5
Lumens: 630
Luminaire LPW: 60



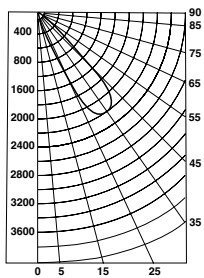
Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	105	
5°	142	
10°	201	
15°	336	
20°	615	
25°	1289	
30°	2516	
35°	3442	
40°	2790	
45°	1515	
50°	671	
55°	236	
60°	111	
65°	63	
70°	40	
75°	24	
80°	11	
85°	3	
90°	0	

PHOTOMETRIC REPORT

Test Report: PT09152923R
Catalog No: IC4AL-35K-N-1
with 41L-WH and
Narrow Flood Optic

Watts: 10.5
Lumens: 644
Luminaire LPW: 61



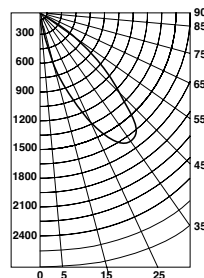
Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	100	
5°	136	
10°	173	
15°	347	
20°	897	
25°	1640	
30°	2105	
35°	2251	
40°	2067	
45°	1612	
50°	957	
55°	303	
60°	111	
65°	69	
70°	39	
75°	20	
80°	9	
85°	2	
90°	0	

PHOTOMETRIC REPORT

Test Report: PT09152903R
Catalog No: IC4AL-35K-F-1
with 41L-WH
and Flood Optic

Watts: 10.5
Lumens: 695
Luminaire LPW: 66

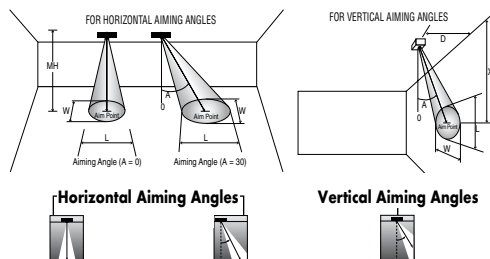


Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	103	
5°	189	
10°	362	
15°	614	
20°	951	
25°	1324	
30°	1592	
35°	1712	
40°	1654	
45°	1275	
50°	823	
55°	459	
60°	301	
65°	167	
70°	70	
75°	21	
80°	7	
85°	0	
90°	0	

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°).



Beam Type Beam Spread° CBCP				0°				30°				30°				
Fixture				MH	FC	L	W	FC	L	W	D	FC	X	L	W	
IC4AL LED, 3500K Spot	S	18°	3442	4	215	1.3	1.3	140	1.7	1.5	2	108	3.5	2.7	1.3	
				6	96	1.9	1.9	62	2.6	2.2	3	48	5.2	4.1	1.9	
				8	54	2.5	2.5	35	3.4	2.9	4	27	6.9	5.5	2.5	
				10	34	3.2	3.2	22	4.3	3.7	5	17	8.7	6.9	3.2	
				12	24	3.8	3.8	16	5.1	4.4	6	12	10.4	8.2	3.8	
IC4AL LED, 3500K Narrow Flood	N	30°	2251	4	141	2.1	2.1	91	2.9	2.5	2	70	3.5	5.5	2.1	
				6	63	3.2	3.2	41	4.4	3.7	3	31	5.2	8.2	3.2	
				8	35	4.3	4.3	23	5.9	5.0	4	18	6.9	10.9	4.3	
				10	23	5.4	5.4	15	7.3	6.2	5	11	8.7	13.7	5.4	
				12	16	6.4	6.4	10	8.8	7.4	6	8	10.4	16.4	6.4	
IC4AL LED, 3500K Flood	F	40°	1712	4	107	2.9	2.9	69	4.1	3.4	2	54	3.5	9.7	2.9	
				6	48	4.4	4.4	31	6.1	5.0	3	24	5.2	14.5	4.4	
				8	27	5.8	5.8	17	8.1	6.7	4	13	6.9	19.3	5.8	
				10	17	7.3	7.3	11	10.2	8.4	5	9	8.7	24.2	7.3	
				12	12	8.7	8.7	8	12.2	10.1	6	6	10.4	29.0	8.7	

Multipliers:
27K - 0.93
3K - 0.96
35K - 1.00
41K - 1.03



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com

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