

Project:	
Fixture Type:	
Location:	
Contact/Phone:	

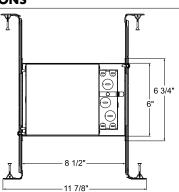
4" IC AND TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

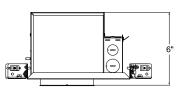
IC4AL, TC4AL (10LM) RECESSED HOUSING

SLOT ADJUSTABLE TRIMS



DIMENSIONS





4 1/2" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option (120)									
	120V								
Input Power	16.4W (+/-5%)								
Input Current	0.15Å								
Frequency	50/60Hz								
EMI/RFI	FCC Title 47 CFR, Part 15,								
	Class B (Residential)								
Minimum starting temp	-25°C (-13°F)								

Universal Voltage	Driver (MVOLT ZT)	
•	120V	277V
Input Power	16.0W (+/-5%)	16.0W (+/-5%)
Input Current	0.15A	0.06A
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 (MVOLT ECOS3) 2771

	1201	2// 4
Input Power	16.4W (+/-5%)	16.6W (+/-5%)
Input Current	0.15A	0.07A
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)

PRODUCT DESCRIPTION

Patent pending dedicated LED, Air-Loc® sealed new construction housing with integral internally adjustable light engine • Double wall, shallow housing construction • IC4AL series can be completely covered with insulation and installs in 2 x 6 construction • TC4AL 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)
• Fully sealed housing stops infiltration and exfiltration of air, reducing heating and cooling costs without the use of additional gaskets heating and cooling costs without the use of additional gaskets
• 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 75W 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 Adjustable slot aperture features a white trim ring • Shadow free, knife edge design blends seamlessly

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. • In a list of compatible dimmers. • In the light of the power of the property of the 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 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 IC4AL designed for use in IC (insulated ceiling) or non-IC construction • TC4AL 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 (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 4 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped with pryout slots
• Quick connect electrical connectors supplied as standard for fast, secure installation.

Mounting Frame 22-gauge die-formed galvanized steel mounting frame • Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

Real Nail 3 Bar Hangers Patented (US Patent D552,969)
Real Nail 3 bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings
• Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.

4" IC AND TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

IC4AL, TC4AL (10LM) RECESSED HOUSING

SLOT ADJUSTABLE TRIMS

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

Example: IC4AL 10LM 27K 90CRI FL 120 FRPC

Series Lumens		Color Temperature CR		CRI		Distribution		Voltage		Driver			
IC4AL	4" LED Internally Adjustable	10LM	1000 Nominal Lumens	27K	2700K	90CRI	90+ CRI	FL	Flood	120	120V	FRPC	Forward/ Reverse Phase Cut
	New Const. IC Downlight			30K	3000K			NFL	Narrow Flood	MVOLT	Multi-Volt	ZT	0 - 10V Dimming Driver
				35K	3500K			SP	Spot		(120-277V)		
				40K	4000K								

Example: TC4AL 10LM 27K 90CRI FL MVOLT ECOS3

Notes: 120 must be ordered with FRPC. MVOLT must be ordered with ZT

Series	Lumens		Color Temperature		CRI		Distribution		Voltage		Driver		
TC4AL	4" LED Internally Adjustable	10LM	1000 Nominal Lumens	27K	2700K	90CRI	90+ CRI	FL	Flood	MVOLT	Multi-Volt	ECOS3	Lumen Hi - Lume A Series, 3-wire fluorescent
	New Const. Non IC Downlight		3	30K	3000K			NFL Narrow Flood				controls & Lutron Ecosystem	
				35K	3500K			SP	Spot				
				40K	4000K								

Trim/Description



4" Adjustable Slot Trim - White

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

Accessories (ordered separately) **Catalog Number** 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 Dichroic Glass Filter - 2" Diameter Medium Blue DGF 200 MBLU 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 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

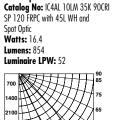
IC4AL, TC4AL (10LM) RECESSED HOUSING

PHOTOMETRICS PHOTOMETRIC REPORT

Test Report: PT09153005R

SLOT ADJUSTABLE TRIMS

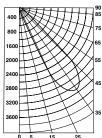
Candlepower Distribution





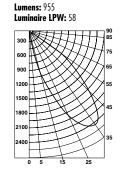
Candlepower Distribution PHOTOMETRIC REPORT Test Report: PT09152925R Catalog No: IC4AL 10LM 35K 90CRI NFL 120 FRPC with 45L WH and Narrow Flood Optic

Watts: 16.4 Lumens: 873 Luminaire LPW: 53



Candle Distribu (Candelas)	power ition	
Degrees Vertical	Candela	
0°	69	
5°	96	
10°	143	
15°	479	
20°	1438	
25°	2519	
30°	3158	
35°	3365	
40°	3135	
45°	2501	
50°	1567	
55°	746	
60°	215	
65°	87	
70°	39	
75°	13	
80°	1	

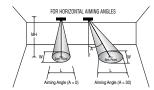
PHOTOMETRIC REPORT Test Report: PT09152905R Catalog No: IC4AL 10LM 35K 90CRI FL 120 FRPC with 45L WH and Flood Optic Watts: 16.4

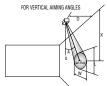


Degrees Vertical 10° 490 1509 25° 2020 309 2368 35 40° 2308 45° 1946 50° 55° 1440 901 210 70° 83 75° 80° 85°

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	Beam			0	°			30°				30°		
FIXTURE	Type	Spread	CBCP	МН	FC	L	W	FC	L	W	D	FC	Χ	L	W
IC4AL (10LM)	SP	18°	5802	4	363	1.3	1.3	236	1.7	1.5	2	181	3.5	2.7	1.3
LED, 3500K				6	161	1.9	1.9	105	2.6	2.2	3	81	5.2	4.1	1.9
Spot		\wedge		8	91	2.5	2.5	59	3.4	2.9	4	45	6.9	5.5	2.5
				10	58	3.2	3.2	38	4.3	3.7	5	29	8.7	6.9	3.2
				12	40	3.8	3.8	26	5.1	4.4	6	20	10.4	8.2	3.8
IC4AL (10LM)	NFL	30°	3365	4	210	2.1	2.1	137	2.9	2.5	2	105	3.5	5.5	2.1
LED, 3500K				6	93	3.2	3.2	61	4.4	3.7	3	47	5.2	8.2	3.2
Narrow Flood				8	53	4.3	4.3	34	5.9	5.0	4	26	6.9	10.9	4.3
				10	34	5.4	5.4	22	7.3	6.2	5	17	8.7	13.7	5.4
				12	23	6.4	6.4	15	8.8	7.4	6	12	10.4	16.4	6.4
IC4AL (10LM)	FL	40°	2465	4	154	2.9	2.9	100	4.1	3.4	2	77	3.5	9.7	2.9
LED, 3500K				6	68	4.4	4.4	44	6.1	5.0	3	34	5.2	14.5	4.4
Flood				8	39	5.8	5.8	25	8.1	6.7	4	19	6.9	19.3	5.8
		7 1		10	25	7.3	7.3	16	10.2	8.4	5	12	8.7	24.2	7.3
				12	17	8.7	8.7	11	12.2	10.1	6	9	10.4	29.0	8.7

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