

Project:	
Fixture Type:	
Location:	
Contact/Phone:	

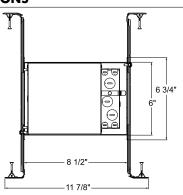
4" IC AND TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

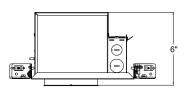
IC4AL, TC4AL (10LM) RECESSED HOUSING

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	0.15A	
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)						
_	ut Current 0.15A quency 50/60Hz						
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 ECOD) 120V 277V Input Power 16.4W (+/-5%) 16.6W (+/-5%) 0.15A0.07A Input Current Frequency 50/60Hz 50/60Hz FCC Title 47 CFR, Part 15 FCC Title 47 CFR, Part 15 EMI/RFI

Class A (Commercial)

0°C (32°F)

Class A (Commercial)

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.

Minimum starting temp

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

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

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

Series		Lumens		Color Temperature		CRI		Distribution		Voltage		Driver		Territory	
TC4AL	4" LED Internally Adjustable	10LM	1000 Nominal Lumens	27K	2700K	90CRI	90+ CRI	FL	Flood	MVOLT	Multi-Volt	ECOD	Lutron Hi-Lume EcoSystem,	CP	Chicago
	New Const. Non IC Downlight			30K	3000K			NFL	Narrow Flood				1% Dimming		Plenum
				35K	3500K			SP	Spot						
				40K	4000K										

TC4AL is not ENERGY STAR® or T24 compliant

Trim/Description



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 separately)

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 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

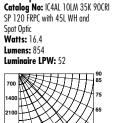
IC4AL, TC4AL (10LM) RECESSED HOUSING

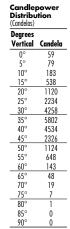
PHOTOMETRICS PHOTOMETRIC REPORT

Test Report: PT09153005R

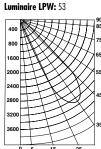
SLOT ADJUSTABLE TRIMS

Candlepower Distribution



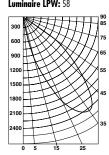


PHOTOMETRIC REPORT
Test Report: PT09152925R
Catalog No: IC4AL 10LM 35K 90CRI
NFL 120 FRPC with 45L WH and
Narrow Flood Optic
Watts: 16.4
Lumens: 873



Candlepower Distribution Vertical 10° 143 20° 1438 259 2519 30° 3158 35° 40° 3135 2501 50° 55° 1567 746 70° 39 13 75° 85° 0

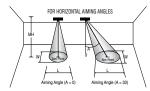
PHOTOMETRIC REPORT Test Report: PT09152905R Catalog No: IC4AL 10LM 35K 90CRI FL 120 FRPC with 45L WH and Flood Optic Watts: 16.4 Lumens: 955 Luminaire LPW: 58

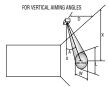


Vertical 10° 490 1509 25° 2020 309 2368 35 409 2308 45° 1946 50° 55° 1440 901 210 70° 83 75° 80° 85°

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	Туре	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