

Project:	
Fixture Type:	
Location:	
Contact/Phone:	

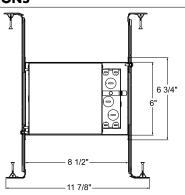
4" IC AND TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

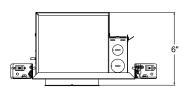
IC4AL, TC4AL (10LM) RECESSED HOUSING

WALL WASH 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 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)

120V	277V
16.4W (+/-5%)	16.6W (+/-5%)
0.15Å	0.07A
50/60Hz	50/60Hz
FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
Class A (Commercial)	Class A (Commercial)
0°C (32°F)	0°C (32°F)
	16.4W (+/-5%) 0.15A 50/60Hz FCC Title 47 CFR, Part 15, Class A (Commercial)

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 Recessed lensed wall wash trim • Shadow free, knife edge design blends seamlessly into ceiling • Reflector finishes include clear, haze, wheat haze and white painted.

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 the control of the dimmark of the control of the dimmark of the control of the dimmark of the control of the dimmark. 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**

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

Trim/Description



39 CWH 4" Lensed Wall Wash Cone Trim - Clear Alzak®. White Trim Ring 4" Lensed Wall Wash Cone Trim - White, White Trim Ring 4" Lensed Wall Wash Cone Trim - Haze, White Trim Ring 39 WHZWH 4" Lensed Wall Wash Cone Trim - Wheat Haze, White Trim Ring

Trim Size: 5'' O.D. Alzak is a registered trademark of Alco Corp. 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					

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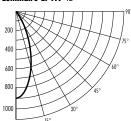
WALL WASH TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT02162902R Catalog No: IC4AL 10LM 35K 90CRI NFL 120 FRPC with 39 HZWH Trim

Luminaire Spacing Criterion: 0.64 Lumingire LPW: 42



CANDLEPOWER DISTRIBUTION (Candelas)

•	
Degrees	
Vertical	0°
0	900
5	871
15	606
25	322
35	157
45	72
55	35
65	18
75	6
85	0
90	0
Multipliers: 27K	- 0 93

30K - 0.96 35K - 1.00

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	443	N/A	64.7
0 - 40°	571	N/A	83.5
0-60°	671	N/A	98.1
0 - 90°	684	N/A	100.0

LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	19022	
55	11545	
65	7879	
75	4337	
85	0	

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixtur	e Distance to Wall		2′		3′
Fixtur	e Centers (spacing)	≜ 2′ ≜	∄ 3′ Å	∄ 3′ Å	₫ 4′ Å
<u>6</u>	1'	4 4 4	4 3 4	2 2 2	2 2 2
Ż	2'	11 11 11	8 7 8	4 4 4	4 3 4
CEILIN	3′	15 15 15	11 10 11	6 6 6	5 5 5
≨	4′	17 17 17	12 12 12	8 8 8	6 6 6
FRO	5′	16 16 16	12 12 12	9 9 9	7 7 7
	6'	15 15 15	11 11 11	9 9 9	7 7 7
ZCE	7'	13 13 13	10 10 10	9 9 9	7 7 7
₹	8'	12 12 12	9 9 9	9 9 9	7 7 7
SIST	9′	10 10 10	7 7 7	8 8 8	6 6 6

Fixtures tested to IES recommended standard for solid state lighting per LW-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.