JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Patent pending dedicated LED, Air-Loc® remodel housing with integral internally adjustable light engine • Non-IC remodel housing for remodel application where back side of ceiling is not accessible • If installed where insulation is present, the insulation must be pulled back 2th for the IC busing the lately back and a participation of the IC busing the state of th 3" from all sides of the TC housing • 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 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 Aluminum angle-cut reflector in clear, black, pewter, white, haze and wheat haze • 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 120277 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 ENERGY STAR® Certified • Certified to the high efficacy requirements of California T24 JA8-2016 • 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 Designed for use in non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1 ½" ceiling thickness.

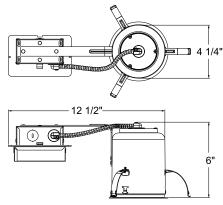
Junction Box Pre-wired junction box provided with (5) ½" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

G1.7.63 4" TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

TC4RAL (10LM), RECESSED HOUSING **ANGLE CUT TRIMS**



DIMENSIONS



4 3/8" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120	/ Only Driver Opti 120V	on (120)
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 Volta	ge 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 (MVO)	LT ECOD)
	120V	277V
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)

Light Commercial & Residential

4" TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL TC4RAL (10LM), RECESSED HOUSING ANGLE CUT TRIMS

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

Example: TC4RAL 10LM 30K 90CRI FL 120 FRPC

Series		Lumen	s	Colo	r Temperature	CRI		Distr	ibution	Voltage		Driver	
TC4RAL	4" LED Internally Adjustable	10LM	1000 Nominal Lumens	27K	2700K	90CRI	90+ CRI	FL	Flood	120	120V	ECOD [†]	Lutron Hi-Lume EcoSystem, 1% Dimming
	Reconstruction Non IC Downlight			30K	3000K			NFL	Narrow Flood	MVOLT		FRPC	Forward/ Reverse Phase Cut
				35K	3500K			SP	Spot		(120-277V)	ZT	0 - 10V Dimming Driver
				40K	4000K								

Notes: 120 must be ordered with FRPC. MVOLT can be ordered with either ZT or ECOD. †: ECOD driver not ENERGY STAR® certified

Trim/Description



4" Adjustable Angle Cut Cone Trim - Block Alzak® Cone, Block Trim Ring 4" Adjustable Angle Cut Cone Trim - Block Alzak® Cone, White Trim Ring 4" Adjustable Angle Cut Cone Trim - Clear Alzak® Cone, White Trim Ring 4" Adjustable Angle Cut Cone Trim - Haze Cone, White Trim Ring 4" Adjustable Angle Cut Cone Trim - Pewter Alzak® Cone, Satin Chrome Trim Ring

4" Adjustable Angle Cut Cone Trim - Wheat Haze Cone, Bronze Trim Ring

4" Adjustable Angle Cut Cone Trim - Wheat Haze Cone, White Trim Ring

4" Adjustable Angle Cut Cone Trim - Gloss White Cone, White Trim Ring

Trim Size: 5" O.D.

Alzak is a registered trademark of Alcoa 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

4" TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT REMODEL

TC4RAL (10LM), RECESSED HOUSING ANGLE CUT TRIMS

Candlepower Distribution (Candelas) Candlepower Distribution (Candelas) Candlepower Distribution (Candelas) PHOTOMETRIC PHOTOMETRIC PHOTOMETRIC REPORT REPORT REPORT Test Report: PT09153001R Test Report: PT09152901R Test Report: PT09152921R Degrees Degrees Degrees Catalog No: IC4AL 10LM 35K 90CRI Catalog No: IC4AL 10LM 35K 90CRI Catalog No: IC4AL 10LM 35K 90CRI Candela Vertical Candela Vertical Candela Vertical NFL 120 FRPC with 47L HZWH and SP 120 FRPC with 47L HZWH and Spot FL 120 FRPC with 47L HZWH and Flood 0' 183 220 Narrow Flood Ontic 50 Ontic 59 260 268 Ontic 5° 395 10° 10° Watts: 16.4 Watts: 16.4 Watts: 16.4 10 431 400 698 Lumens: 1091 Lumens: 1077 770 15 756 Lumens: 1126 15 1120 15 Luminaire LPW: 66 209 1320 Luminaire LPW: 67 20° 25° 1621 2700 Lumingire LPW: 69 200 1661 25° 2571 25 2171 30° 4811 30° 3352 30° 2504 700 35° 40° 35° 40° 6185 3554 35 2591 4549 800 3280 40 2413 45 45° 2283 2600 45 2023 210 50° 55° 50° 55° 1123 1618 50 1489 794 55 972 656 60° 225 54 60° 65° 70° 308 60° 465 350 94 65 220 70° 70° 4200 20 44 87 75° 75° 14 75° 80° 78 190 85° 85° 85° 0 0 90 90 **CBCP** • Centerbeam candlepower FOR HORIZONTAL AIMING ANGLES FOR VERTICAL AIMING ANGLES FC • Footcandles at beam center (aim point) In vertical aiming applications, aim point (Am 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°).

Vertical Aiming Angles

0° **30**° 30° Beam Spread Beam FIXTURE CBCP MH FC W FC W D FC W Type 387 251 1.7 1.5 193 3.5 2.7 IC4AL 4 1.3 2 13 SP 6185 18 (10LM) 172 1.9 1.9 112 2.6 2.2 3 86 5.2 4.1 1.9 6 LEĎ, 3500K 97 2.9 48 6.9 8 2.5 2.5 63 3.4 5.5 2.5 4 Spot 10 62 3.2 3.2 40 4.3 3.7 5 31 8.7 6.9 3.2 12 43 3.8 3.8 28 5.1 4.4 21 10.4 8.2 3.8 6 IC4AL NFL 30° 3554 2.1 2.1 2.9 2.5 3.5 5.5 2.1 4 222 1/// 2 (10LM) 99 3.2 3.7 3 49 5.2 8.2 3.2 6 3.2 64 4.4 LED, 3500K 5.9 28 6.9 36 5.0 10.9 8 56 4.3 4.3 4 4.3 Narrow 10 36 5.4 5.4 23 7.3 6.2 5 18 8.7 13.7 54 Flood 12 12 6.4 6.4 16 8.8 7.4 6 10.4 16.4 6.4 IC4AL FL 40° 2591 2.9 2.9 3.4 2 3.5 9.7 2.9 162 105 41 81 4 (10LM) 47 14.5 6 72 4.4 4.4 6.1 5.0 3 36 5.2 4.4 LED, 3500K 6.9 19.3 5.8 5.8 5.8 26 8.1 20 8 40 6.7 Δ Flood 10 17 8.7 26 7.3 7.3 10.2 8.4 5 13 24.2 7.3 87 8.7 12 12.2 18 10.1 0 10.4 29.0 87

Horizontal Aiming Angles

Multipliers:

27K - 0.93 30K - 0.96 35K - 1.00

40K - 1.03

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