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BLACK BODY DIMMING & TUNABLE WHITE 700/1000 LUMEN ADJUSTABLE LED

PRODUCT DESCRIPTION

Recessed adjustable LED luminaire features both Black Body Dimming and Tunable White technology in a single fixture. In Black Body Dimming mode, the luminaire duplicates halogen dimming, creating a natural warm glow as the CCT shifts from 3000K to less than 1800K when dimmed. In Tunable White mode, the CCT can be adjusted anywhere along the Planckian locus from 2000K through 4350K independent of dimming. Aculux Black Body Dimming and Tunable White luminaires feature a sealed Air-Loc® housing and is available in both IC and Non-IC rated configurations.

PRODUCT SPECIFICATIONS

LED Light Engine With single dimmer connected, the light engine duplicates halogen, with the CCT shifting from 3000K at 100% to 1800K when dimmed to 1% • Connect a second dimmer to engage Tunable White mode, featuring independent dimming and CCT tuning from 2000K through 4350K • Superb color consistency within 2 SDCM of the Planckian locus over CCT range • Accurate color rendition with 90 CRI at 3000K, and 85 CRI/70 R9 throughout CCT range.

Dimming and CCT Control Black Body Dimming and CCT Tuning are compatible with most 0-10V protocol dimmers • IC rated housings are rated for 120-277V input • For Non-IC housings, specify 120V or 277V. Refer to installation instructions for detailed wiring schematics.

Modular Optics Field interchangeable optics available with 21° Very Narrow Flood, 27° Narrow Flood, or 36° Flood distributions • 50° distribution is available when AF3-50DEG accessory lens is used with 27° Narrow Flood optic • Patent pending auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position relative to trim • Accommodates up to three (3) beam control lenses and/or filters.

Adjustability Acu-Aim[™] precision geared hot-aiming achieves 370° rotation, 45° tilt • Optimized center beam optics translates light engine forward as it is aimed off nadir

Reflector .040" aluminum angle-cut reflector in black Alzak finish coupled with solite lens, shields housing interior.

Trims Style Trim Ring and Flush Mount reflectors available • Trim ring features beveled knife edge for clean ceiling interface • Flush Mount trim creates a truly trimless aperture • Features solite glass lens on aperture • For flush mount installations in drywall ceilings use the FMA4 flush mount adapter • For flush mount installations in wood, stone, or tile ceilings the FMA4-SC*** must be used (specify ceiling thickness and adapter finish).

Life Rated for 50,000 hrs at 70% lumen maintenance.

Warranty 5 years from date of purchase on LED components • Standard Juno Lighting Group product guarantee terms and conditions apply.

Codes/Labels UL and cUL listed for through branch wiring, wet locations • Meets energy code Air Leakage requirements per ASTM E283 • Union made.

Mounting Available with either Patented (US Patent 8,038,113) Pro-VI[™] bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings, or with vertically adjustable mounting brackets (butterfly brackets). Specify mounting style when ordering.

Junction Box IC housings are rated for 4 No. 12 AWG 90°C through branch circuit conductors. • Non-IC housings are rated for 8 No. 12 AWG 90°C through branch circuit conductors. • Includes (5) $\frac{1}{2}$ ", (1) $\frac{3}{4}$ ", and (4) Non-metallic sheathed cable knock-outs. • Push-in electrical connectors for field connections.

Housing/Mounting Frame Housing painted black for visually dark interior ● V-Notch in plaster frame and Patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- ½" translation aids fixture alignment after installation, prior to drywall.

Ceiling Thickness $\frac{1}{2}$ " - $\frac{7}{6}$ " ceiling standard • For thicker ceilings, order CTA4N-125 ($\frac{7}{6}$ "-1 $\frac{1}{4}$ "), CTA4N-163 (1 $\frac{1}{4}$ "-1 $\frac{5}{6}$ ") or CTA4N-200 (1 $\frac{5}{6}$ "-2") • CTA4N not required for wood, stone, or tile flush mount applications.

ELECTRICAL DATA

Housing	IC(9)43T	IC4	19T	TC(9)49T			
Voltage	120	277	120	277	120	277		
Input Power (W)	13.0 14.3		20.5	21.6	22.5 23.6			
Input Current (A)	0.11	0.11 0.06		0.17 0.09		0.09		
Frequency	50/60Hz		50/	60Hz	50/60Hz			
Power Factor	0.99	0.99 0.92		0.92	0.99	0.92		

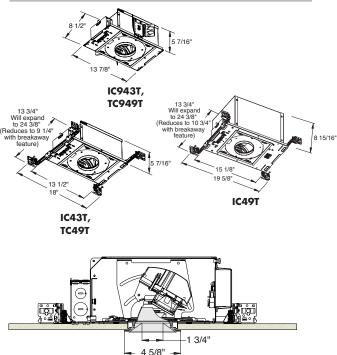
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1-3/4" LENSED REGRESSED PINHOLE APERTURE

IC(9)43T-4301N, IC49T-4301N, TC(9)49T-4301N

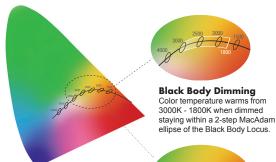
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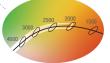
DIMENSIONS



4 1/4" CEILING CUTOUT (REFER TO INSTRUCTION SHEET FOR FLUSH MOUNT CEILING CUTOUT)

ATrim Ring4 5/8"Flush Mount3 7/8"





Tunable White Color temperature can be tuned from 4350K - 2000K while staying within a 2-step MacAdam ellipse of the Black Body Locus.



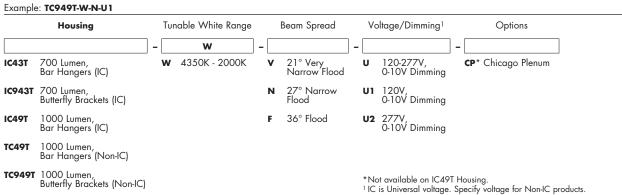
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IC(9)43T-4301N, IC49T-4301N, TC(9)49T-4301N

Ordering Information Housing, trim and accessories each ordered separately



Example: 4301	N-WH		
		Trim	
Trim Ring	Flush Mount ¹	Description	
4301N-WH 4301N-BL	4301N-WH-FM 4301N-BL-FM	White Trim Black Trim	-

¹Flush Mount trims must be used with Flush Mount Adapter, ordered separately. Product specifications subject to change without notice.

Flush Mount Adapters

Cat. #	Description							
FMA4	Drywall Ceiling Adapter							
FMA4-SC087-WH	Wood, Stone, Tile, 1/2"-7/8" Thick Ceiling, Adapter, White							
FMA4-SC087-BL	Wood, Stone, Tile, 1/2"-7/8" Thick Ceiling, Adapter, Black							
FMA4-SC125-WH	Wood, Stone, Tile, 7/8"-1 1/4" Thick Ceiling, Adapter, White							
FMA4-SC125-BL	Wood, Stone, Tile, 7/8"-1 1/4" Thick Ceiling, Adapter, Black							
FMA4-SC163-WH	Wood, Stone, Tile, 1 1/4"-1 5/8" Thick Ceiling, Adapter, White							
FMA4-SC163-BL	Wood, Stone, Tile, 1 1/4"-1 5/8" Thick Ceiling, Adapter, Black							

Optical Accessories

Cat. #	Description	Cat. #	Description
TIR-TW-V	21° Very Narrow Flood Optic	T7403	Med. Green Dichroic Lens
TIR-TW-N	27° Narrow Flood Optic	T7404	Med. Blue Dichroic Lens
TIR-TW-F	36° Flood Optic	T7405	Yellow Dichroic Lens
AF3-50DEG	50° Optic Film	T7406	Magenta Dichroic Lens
	(Use with 27° Optic)	T7411	Blue Green Dichroic Lens
T741	Med. Pink Color Filter	T7416	Daylight Blue Correction Lens
T742	Warm Red Color Filter	T7420	Diffuse Spread Lens
T743	Daylight Blue Color Filter	T7422	UV Filter Lens
T744	Med. Blue Color Filter	T7477	Prismatic Lens
T745	Med. Amber Color Filter	T7478	Linear Spread Lens
T746	Med. Green Color Filter	T7459BL	Hexcell Louver
T7401	Red Dichroic Lens		

Misc. Accessories

Cat. #	Description							
CTA4N-125	1 1/4" Thick Ceiling Adapter							
CTA4N-163	1 5/8" Thick Ceiling Adapter							
CTA4N-200	2" Thick Ceiling Adapter							
HB-1	(2) Real Nail 3 Bar Hangers (2) 26" C-Channel Bar Hangers							
HB-26								
HB-50	(2) 50" C-Channel Bar Hangers							
LB-27	(2) 27" Linear Bar Hangers							
EMI-20	20W Emergency Lighting Inverter							
To order, spec	cify catalog number.							

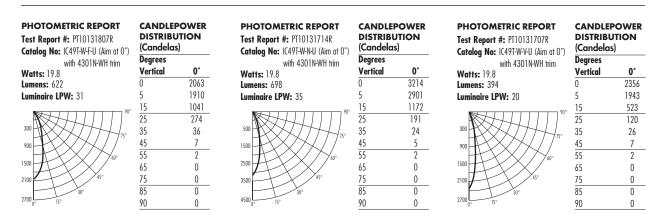


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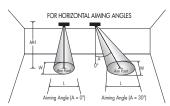
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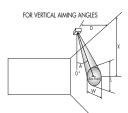


CBCP · Centerbeam candlepower FC · Footcandles at beam center (aim point)

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°).



Horizontal Aiming Angles



Vertical Aiming Angles

			Λ															
Beam	Beam		0 °		30°			30 °				40 °						
Туре	Spread	CBCP	MH	FC	L	W	FC	L	W	D	FC	Х	L	W	FC	Х	L	W
VNFL	21°	2356	4 6 8 10 12	147 65 37 24 16	1.4 2.0 2.7 3.4 4.1	1.4 2.0 2.7 3.4 4.1	96 43 24 15 11	1.8 2.7 3.7 4.6 5.5	1.6 2.4 3.1 3.9 4.7	2 3 4 5 6	74 33 18 12 8	3.5 5.2 6.9 8.7 10.4	3.0 4.5 6.0 7.4 8.9	1.4 2.0 2.7 3.4 4.1	156 70 39 25 17	2.4 3.6 4.8 6.0 7.2	1.7 2.6 3.4 4.3 5.1	1.1 1.6 2.1 2.6 3.2
NFL	27°	3214	4 6 8 10 12	201 89 50 32 22	1.8 2.7 3.5 4.4 5.3	1.8 2.7 3.5 4.4 5.3	130 58 33 21 14	2.4 3.6 4.8 6.0 7.2	2.0 3.1 4.1 5.1 6.1	2 3 4 5 6	100 45 25 16 11	3.5 5.2 6.9 8.7 10.4	4.2 6.2 8.3 10.4 12.5	1.7 2.7 3.5 4.4 5.3	213 95 53 34 24	2.4 3.6 4.8 6.0 7.2	2.3 3.5 4.6 5.8 6.9	1.4 2.1 2.8 3.4 4.1
FL	36°	2063	4 6 8 10 12	129 57 32 21 14	2.2 3.2 4.3 5.4 6.5	2.2 3.2 4.3 5.4 6.5	84 37 21 13 9	2.9 4.4 5.9 7.4 8.8	2.5 3.7 5.0 6.2 7.5	2 3 4 5 6	64 29 16 10 7	3.5 5.2 6.9 8.7 10.4	5.5 8.3 11.0 13.8 16.6	2.2 3.2 4.3 5.4 6.5	137 61 34 22 15	2.4 3.6 4.8 6.0 7.2	2.9 4.4 5.8 7.3 8.7	1.7 2.5 3.4 4.2 5.0

Fc/Lumen Multipliers: IC(9)43T - 0.70 IC49T - 1.00 TC(9)49T - 1.00

Photometry is at 3000K CCT



