

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 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 ● 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, damp 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

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) ½", (1) 34", 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 $\frac{7}{6}''-1$ $\frac{1}{2}''$, CTA4N-163 $\frac{1}{2}''-1$ $\frac{1}{2}''$ or CTA4N-200 $\frac{1}{6}''-2''$ • CTA4N not required for wood, stone, or tile flush mount applications.

ELECTRICAL DATA

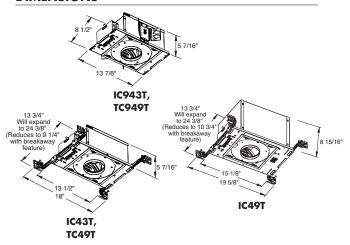
	DAIA						
Housing	IC(9)43T	IC4	19T	TC(9)49T		
Voltage	120	277	120	277	120	277	
Input Power (W)	13.0	14.3	20.5	21.6	22.5	23.6	
Input Current (A)	0.11	0.06	0.17	0.09	0.18	0.09	
Frequency	50/	50/60Hz		60Hz	50/	60Hz	
Power Factor	0.99	0.92	0.99	0.92	0.99	0.92	

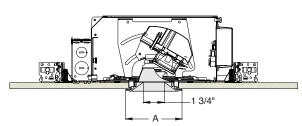
1-3/4" REGRESSED PINHOLE APERTURE

IC(9)43T-4308N, IC49T-4308N, TC(9)49T-4308N

	Туре	Cat. No.
Project:		
Notes:		

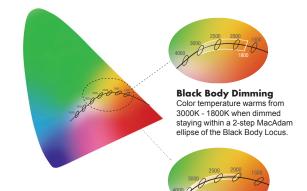
DIMENSIONS





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

	Α
Trim Ring	4 5/8"
Flush Mount	3 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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Example	e: TC949T-W-N-U1							
	Housing	Tur	nable White Range		Beam Spread	Vo	oltage/Dimming ¹	Options
] - [w	-		-		-
IC43T	700 Lumen, Bar Hangers (IC)	w	4350K - 2000K	٧	21° Very Narrow Flood	U	120-277V, 0-10V Dimming	CP* Chicago Plenum
IC943T	700 Lumen, Butterfly Brackets (IC)			N	27° Narrow Flood	U1	120V, 0-10V Dimming	
IC49T	1000 Lumen, Bar Hangers (IC)			F	36° Flood	U2	277V, 0-10V Dimming	
тс49т	1000 Lumen, Bar Hangers (Non-IC)							
тс949т	1000 Lumen, Butterfly Brackets (Non-IC))					ot available on IC491 is Universal voltage.	Housing. Specify voltage for Non-IC produ

Example: 4308 1	N-WH		
		Trim	
Trim Ring	Flush Mount ¹	Description	
4308N-WH	4308N-WH-FM	White Trim	•
4308N-BL	4308N-BL-FM	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
HB-26	(2) 26" C-Channel Bar Hangers
HB-50	(2) 50" C-Channel Bar Hangers
LB-27	(2) 27" Linear Bar Hangers
EMI-20	20W Emergency Lighting Inverter

To order, specify catalog number.



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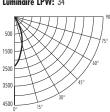
1-3/4" REGRESSED PINHOLE APERTURE

IC(9)43T-4308N, IC49T-4308N, TC(9)49T-4308N

PHOTOMETRIC REPORT

Test Report #: PT10131804R Catalog No: IC49T-W-F-U (Aim at 0°) with 4308N-WH trim

Watts: 19.8 Lumens: 674 Luminaire LPW: 34



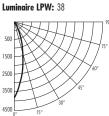
CANDLEPOWER DISTRIBUTION (Candelas)

(
Degrees	
Vertical	0°
0	2408
5	2227
15	1175
25	259
35	24
45	5
55	0
65	0
75	0
85	0
00	Λ

PHOTOMETRIC REPORT

Test Report #: PT10131711R Catalog No: IC49T-W-N-U (Aim at 0°) with 4308N-WH trim

Watts: 19.8 Lumens: 752



CANDLEPOWER DISTRIBUTION

(Candelas)	
Degrees	
Vertical	0°
0	3818
5	3464
15	1265
25	136
35	16
45	3
55	0
65	0
75	0
85	0
90	0

PHOTOMETRIC REPORT

Test Report #: PT10131704R Catalog No: IC49T-W-V-U (Aim at 0°) with 4308N-WH trim

Watts: 19.8 Lumens: 424 Luminaire LPW: 22

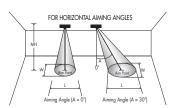


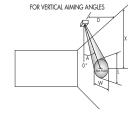
CANDLEPOWER DISTRIBUTION (Candelas)

•	•
Degrees	
Vertical	0°
)	3105
5	2476
15	504
25	119
35	22
45	6
55	6
65	0
75	0
35	0
90	Λ

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			() °		3	80°				30				40)°	
Туре	Spread	CBCP	МН	FC	L	W	FC	L	W	D	FC	Χ	L	W	FC	Χ	L	W
VNFL	21°	3105	4 6 8 10 12	194 86 49 31 22	1.2 1.8 2.5 3.1 3.7	1.2 1.8 2.5 3.1 3.7	126 56 32 20 14	1.7 2.5 3.3 4.1 5.0	1.4 2.1 2.8 3.6 4.3	2 3 4 5 6	97 43 24 16 11	3.5 5.2 6.9 8.7 10.4	2.7 4.0 5.3 6.6 8.0	1.2 1.8 2.5 3.1 3.7	206 92 52 33 23	2.4 3.6 4.8 6.0 7.2	1.5 2.3 3.1 3.9 4.6	1.0 1.4 1.9 2.4 2.9
NFL	27°	3818	4 6 8 10 12	239 106 60 38 27	1.7 2.6 3.5 4.3 5.2	1.7 2.6 3.5 4.3 5.2	155 69 39 25 17	2.3 3.5 4.7 5.9 7.0	2.0 3.0 4.0 5.0 6.0	2 3 4 5 6	119 53 30 19 13	3.5 5.2 6.9 8.7 10.4	4.0 6.0 8.0 10.1 12.1	1.7 2.6 3.5 4.3 5.2	254 113 63 41 28	2.4 3.6 4.8 6.0 7.2	2.2 3.4 4.5 5.6 6.7	1.3 2.0 2.7 3.4 4.0
FL	36°	2408	4 6 8 10 12	151 67 38 24 17	2.1 3.2 4.2 5.3 6.3	2.1 3.2 4.2 5.3 6.3	98 43 24 16 11	2.9 4.3 5.7 7.2 8.6	2.4 3.6 4.9 6.1 7.3	2 3 4 5 6	75 33 19 12 8	3.5 5.2 6.9 8.7 10.4	5.3 8.0 10.6 13.3 16.0	2.1 3.2 4.2 5.3 6.3	160 71 40 26 18	2.4 3.6 4.8 6.0 7.2	2.8 4.2 5.7 7.1 8.5	1.6 2.5 3.3 4.1 4.9

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

Photometry is at 3000K CCT

