

LED RECESSED ADJUSTABLE

PRODUCT DESCRIPTION

Recessed adjustable 20W LED luminaire with 1-1/4" square pinhole aperture produces up to 700 fixture lumens and approximates the performance of a 75W MR16 lamp. Fixture has 50° visual cutoff and features precision geared hot-aiming. Sealed Air-Loc® housing ensures maximum energy savings and controls plenum sound transmission. Low profile Non-IC rated housing for use in non-insulated areas or where insulation is spaced at least 3" from housing.

1-1/4" SQUARE PINHOLE APERTURE Non-IC Rated, 1000 LUMEN

TC49LSQ-433SQ, TC949LSQ-433SQ

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color consistency within 3-step MacAdam ellipse ● 2700K, 3000K, 3500K, or 4000K color temperatures are available with 85 CRI typical ● 3000K also available with 93 CRI typical and R9 > 80.

Modular Optics Available with 12° Spot, 24° Narrow Flood, or 35° Flood field interchangeable optics • 50° distribution is available when AF3-50DEG accessory lens is used with 12° Spot optic • Patent pending auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position • Accommodates up to three (3) additional 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, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Reflector .040" aluminum angle-cut reflector in black Alzak finish shields housing interior.

Trims Style Die cast Self Flanged and Flush Mount trim with black oculus utilizes precision wound double torsion springs for tight, secure fit to ceiling ● For flush mount installations in drywall ceilings use the FMASQ4 flush mount adapter ● For flush mount installations in wood, stone, or tile ceilings the FMASQ4-SC*** must be used (specify ceiling thickness and adapter finish).

LED Driver Choice of four drivers to accommodate voltages from 120-277 volts AC • Dedicated 120V (-1) driver is dimmable with most incandescent, magnetic low voltage, and electronic low voltage dimmers • Universal Voltage (-U) driver is dimmable with most 0-10V protocol dimmers • Lutron Hi-Lume® A Series 3-wire (-L) driver is dimmable with 3-wire fluorescent controls and compatible with EcoSystem® • Lutron Hi-Lume® A Series 2-wire (-D) driver is dimmable with 2-wire forward phase dimmers containing a neutral wire • For a list of compatible dimmers, refer to <u>ACLXLED-DIM</u> • Power Factor > 0.9 • Field replaceable from below or above ceiling.

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 TC49LSQ features Patented (US Patent 8,038,113) Pro-VI™ Bar Hanger System with locking set screws, permitting quick placement of housing within 24" O.C. joists or suspended ceilings • Robust bar eliminates flexing regardless of fixture position • Integral T-bar notch with locking tabs secures housing to suspended ceiling grid • Captive bugle-headed ring shank nail for quick one-step installation • Bar Hanger foot aligns to bottom of construction joist and breaks away for use in suspended ceilings.

TC949LSQ is equipped with vertically adjustable mounting brackets that accept $\frac{1}{2}$ " conduit, "C" channels (HB-26 or HB-50), linear flat bars (LB-27) or 26" telescoping Real Nail bar hangers (HB-1).

Junction Box Rated for 8 No. 12 AWG 90° C through branch circuit conductors and includes (6) ½", (1) ¾", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

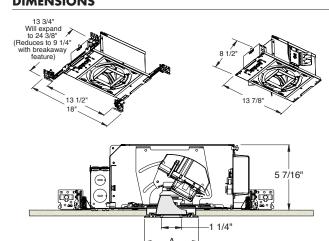
Housing/Mounting Frame Black steel plaster frame and housing painted for visually dark interior ● V-Notch in plaster frame and Patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- ½″ translation and +/- 45° aperture rotation aids fixture alignment during installation.

Ceiling Thickness 1/2" – 7/8" ceiling standard • For thicker ceilings, order CTA4SQ-125 (7/8"-1 1/4"), CTA4SQ-163 (1 1/4"-15/8") or CTA4SQ-200 (1 5/8" – 2") • CTA4SQ not required for wood, stone, or tile flush mount applications.

Project:
Fixture Type:
Location:
Contact/Phone:

TC49LSQ TC949LSQ

DIMENSIONS



4 1/8" CEILING CUTOUT (REFER TO INSTRUCTION SHEET FOR FLUSH MOUNT CEILING CUTOUT)

	Α
Self Flanged	4 1/2"
Flush Mount	3 5/8"

ELECTRICAL DATA

Driver Option	Dedicated 120V (-1)	Universal Voltage (-U)	Lutron 3-wire (-L)	Lutron 2-wire (-D)		
Voltage	120	120 277	120 277	120		
Input Power	18.7	20.6 22.1	19.7 21.1	20.0		
Input Current	0.16	0.17 0.08	0.16 0.08	0.17		
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz		
Power Factor	0.98	0.99 0.90	0.99 0.94	0.98		



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Non-IC Rated, 1000 LUMEN

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Ordering Information Housing, trim and accessories each ordered separately

Example: TC	49LS	Q-835-F-L					Example: 433SQ-WH								
Housings		CRI/Color Temperature				Beam Optics		Drivers	(Options	Trim/Description				
TC49LSQ	827	2700K, 85CRI		12° Spot	1	Forward	СР	Chicago Plenum							
TC949LSQ	830	3000K, 85CRI	N F	24° Narrow Flood 35° Flood		& Reverse Phase Dimming									
	835	3500K, 85CRI	•	33 F100d	U	120-277V, 0-10V			Self Flanged 433SQ-WH	Flush Mount ¹ 433SQ-WH-FM	Description White Trim				
	840	4000K, 85CRI			L	Dimming 120-277V,			433SQ-BL	433SQ-BL-FM	Black Trim IASQ4 Flush Mount Adapter, ordere				
	930	3000K, 93CRI				Lutron Hi-Lume 3-wire Dimming, Ecosystem Compatible			separately.	ons subject to change	•				
					D	120V, Lutron Hi-Lume 2-wire Dimming									

Flush Mount Adapters

Cat. # Description FMASQ4 Drywall Ceiling Adapter FMASQ4-SC100-WH Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, White Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, Black FMASQ4-SC138-WH Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, White FMASQ4-SC138-BL Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, Black FMASQ4-SC175-WH Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, White Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, Black

Optical Accessories

Cat. #	Description	Cat. #	Description
TIR-1-SP	12° Spot Optic	T7403	Med. Green Dichroic Lens
TIR-1-NFL	24° Narrow Flood Optic	T7404	Med. Blue Dichroic Lens
TIR-1-FL	35° Flood Optic	T7405	Yellow Dichroic Lens
AF3-50DEG	50° Optic Film	T7406	Magenta Dichroic Lens
	(Use with 12° 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						
CTA4SQ-125	1 1/4" Thick Ceiling Adapter						
CTA4SQ-163	1 5/8" Thick Ceiling Adapter						
CTA4SQ-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, spec	ify catalog number.						

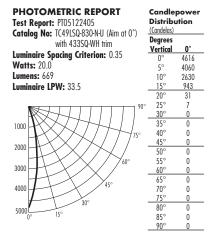


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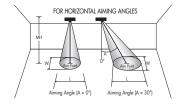
PHOTOMETRIC REPORT Candlepower Test Report: PT05122305 Distribution . Catalog No: TC49LSQ-830-S-U (Aim at 0°) (Candelas) Degrees with 433SQ-WH trim **0°** 9632 Luminaire Spacing Criterion: 0.22 **Watts:** 20.0 6011 Lumens: 685 10° 2117 Luminaire LPW: 34.3 15° 368 25° 30° 2000 40° 45° 4000 55° 6000 60° 8000 70° 10000 80° 85°

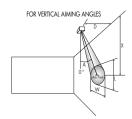


CBCP · Centerbeam candlepower FC · Footcandles at beam center (aim point)

90°

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°).













											J									
	Beam	Beam	Rated			0°				30°		30°					40°			
LED	Туре	Spread®	Life	CBCP	МН	FC	L	W	FC	L	W	D	FC	Χ	L	W	FC	χ	L	W
3000K, 85	CRI SP	12°	50,000	12950	6 8 10 12 14	360 202 130 90 66	1.3 1.7 2.1 2.5 2.9	1.3 1.7 2.1 2.5 2.9	234 131 84 58 43	1.7 2.3 2.8 3.4 3.9	1.5 1.9 2.4 2.9 3.4	3 4 5 6 7		5.2 6.9 8.7 10.4 12.1	2.6 3.5 4.3 5.2 6.1	1.3 1.7 2.1 2.5 2.9	215	3.6 4.8 6.0 7.2 8.3	1.6 2.1 2.6 3.1 3.6	1.0 1.3 1.6 2.0 2.3
	NFL	24°	50,000	5864	4 6 8 10 12	367 163 92 59 41	1.7 2.6 3.4 4.3 5.1	1.7 2.6 3.4 4.3 5.1	238 106 60 38 26	2.3 3.5 4.6 5.8 6.9	2.0 2.9 3.9 4.9 5.9	2 3 4 5 6	183 81 46 29 20	3.5 5.2 6.9 8.7 10.4	3.9 5.9 7.9 9.8 11.8	1.7 2.6 3.4 4.3 5.1	389 173 97 62 43	2.4 3.6 4.8 6.0 7.2	2.2 3.3 4.4 5.5 6.6	1.3 2.0 2.6 3.3 4.0
	FL	35°	50,000	2212	4 6 8 10 12	138 61 35 22 15	2.5 3.8 5.0 6.3 7.6	2.5 3.8 5.0 6.3 7.6	90 40 22 14 10	3.5 5.2 7.0 8.7 10.4	2.9 4.4 5.8 7.3 8.7	2 3 4 5 6	69 31 17 11 8	3.5 5.2 6.9 8.7 10.4	7.2 10.8 14.4 18.0 21.6	2.5 3.8 5.0 5.0 7.6	147 65 37 23 16	2.4 3.6 4.8 6.0 7.2	3.6 5.3 7.1 8.9 10.7	2.0 2.9 3.9 4.9 5.9

Multipliers: 827 - 0.92 930 - 0.92 835 - 1.01

840 - 1.02

