



# LED RECESSED ADJUSTABLE

#### **PRODUCT DESCRIPTION**

Recessed adjustable 20W LED luminaire with 1-1/4" lensed pinhole aperture produces up to 650 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.

#### **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<sup>™</sup> 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 trims utilize precision wound double torsion springs for tight, secure fit to ceiling • Features solite glass lens on aperture • 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, wet 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 ½" 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"-1 5/8") or CTA4SQ-200 (1 5/8" – 2") • CTA4SQ not required for wood, stone, or tile flush mount applications. 1-1/4" SQUARE LENSED PINHOLE APERTURE ♪ Non-IC Rated, 1000 LUMEN

### TC49LSQ-4331SQ, TC949LSQ-4331SQ

Project:

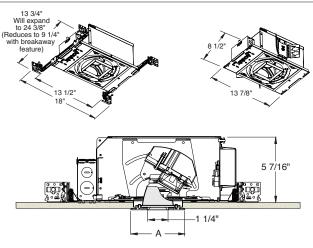
Fixture Type:

Location:

Contact/Phone:



#### DIMENSIONS



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

	A
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



## LED RECESSED ADJUSTABLE 1-1/4" SQUARE LENSED PINHOLE APERTURE Non-IC Rated, 1000 LUMEN TC49LSQ-4331SQ, TC949LSQ-4331SQ

#### Ordering Information Housing, trim and accessories each ordered separately

Example: T	C49LS	Q-835-F-I	_						Example: 43315	Q-WH	
Housings		I/Color perature		Beam Optics		Drivers		Options		Trim/D	escription
TC49LSQ TC949LSQ	- 827 830	85CRI 3000K,	- S N	12° Spot 24° Narrow Flood	-	120V, Forward & Reverse Phase	СР	Chicago Plenum			
	835	85CRI 3500K, 85CRI	F	35° Flood	U	Dimming 120-277V, 0-10V Dimming			Self Flanged 43315Q-WH	Flush Mount <sup>1</sup> 4331SQ-WH-FM	Description White Trim
	840	4000K, 85CRI			L	120-277V, Lutron	1	4331SQ-BL <sup>1</sup> Flush Mount trims	4331SQ-BL-FM must be used with Flus	Black Trim sh Mount Adapter, ordered separately	
	930	3000K, 93CRI				Hi-Lume 3-wire Dimming, Ecosystem Compatible		Product specifications subject to change without notice.			
					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
FMASQ4-SC100-BL	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
FMASQ4-SC175-BL	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		

Description		
1 1/4" Thick Ceiling Adapter		
1 5/8" Thick Ceiling Adapter		
2" Thick Ceiling Adapter		
(2) Real Nail 3 Bar Hangers		
(2) 26" C-Channel Bar Hangers		
(2) 50" C-Channel Bar Hangers		
(2) 27" Linear Bar Hangers		
20W Emergency Lighting Inverter		



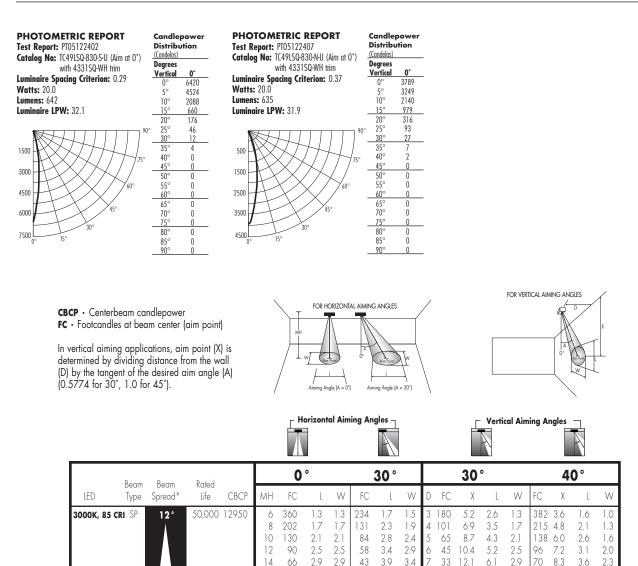
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#### P5.4.11

# LED RECESSED ADJUSTABLE 1-1/4" SQUARE LENSED PINHOLE APERTURE Non-IC Rated, 1000 LUMEN

## TC49LSQ-4331SQ, TC949LSQ-4331SQ



14 66

> 4 367 1.7 1.7 238 2.3 2.0

6 163

8 92 3.4 3.4 60 4.6 3.9 4 46 6.9 7.9 3.4 97 4.8 4.4 2.6

12 41 5.1 5.1 26 6.9 5.9

4 138 2.5 2.5 90 3.5 2.9

6 61 3.8 3.8 40 5.2 4.4 3 31

8

10

59 4.3

35 5.0 5.0

22

Multipliers: 827 - 0.92 930 - 0.92 835 - 1.01 840 - 1.02

NFL

FL

24°

35°

50,000 5864

50,000 2212



2.9 43

4.3

2.6 2.6 106

6.3 6.3 14 8.7

7.6 76 33 12.1

183 3.5 3.9 1.7

81

29 8.7 9.8

20

69

11

8

5.2

3.5 7.2 2.5

10.4 11.8

5.2 10.8

6.9 14.4

8.7 18.0

10.4 21.6

3

5

6 2

2.9

7.3 5

8.7

3.5

10.4

38 5.8 4.9

22 7.0 5.8 4 17 2.9

2.6

4.3

5.1 43 7.2 6.6 4.0

3.8 65 3.6 5.3 29

5.0

5.0 23

7.6 16 7.2 10.7

6.1

5.9

8.3 3.6 2.3

> 2.2 1.3

3.3

3.6 2.0

89 49

2.0

59

389 2.4

173 3.6

147 2.4

4.8 7.1 3.9

6.0

62 6.0 5.5 3.3

37