Aculux®
Precision Recessed Lighting

LED RECESSED ADJUSTABLE

3-1/4" SQUARE APERTURE

Non-IC Rated, 1000 LUMEN

TC49LSQ, TC949LSQ

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Recessed adjustable 20W LED luminaire produces up to 1000 fixture lumens (depending on trim) 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™ 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.

Trims Style Trim Ring, Self Flanged and Flush Mount reflectors utilize torsion spring retention for tight, secure fit to ceiling • Trim ring features beveled knife edge for clean ceiling interface • Self Flanged reflectors with polished or optional white painted flange • 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 ACLXLED-DIM • 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 and wet location with suitable trims • Meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Qualified with select trims • 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).

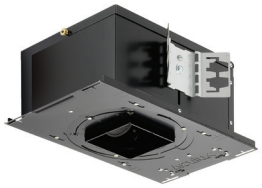
Junction Box Rated for 8 No. 12 AWG 90° C through branch circuit conductors and includes (6) ½", (1) ¾", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

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.

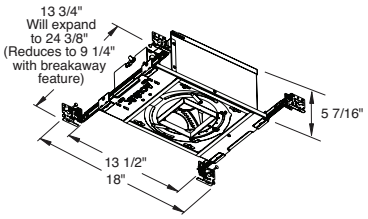
Ceiling Thickness 1/2" – 7/8" ceiling standard • For thicker ceilings, order CTA4SQ-125 (7/8"-1 1/4"), CTA4SQ-163 (1 1/4"-1 5/8") or CTA4SQ-200 (1 5/8" – 2") • CTA4SQ not required for wood, stone, or tile flush mount applications.

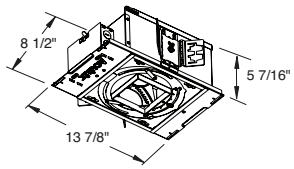
TC49LSQ

TC949LSQ



DIMENSIONS





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

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

Juno Lighting Group
by Schneider Electric

LED RECESSED ADJUSTABLE

3-1/4" SQUARE APERTURE

Non-IC Rated, 1000 LUMEN

TC49LSQ, TC949LSQ

Ordering Information Example: **TC49LSQ-835-F-L**

Housings	CRI/Color Temperature	Beam Optics	Drivers	Options
TC49LSQ	**827** 2700K, 85CRI	**S** 12˚ Spot	**1** 120V, Forward & Reverse Phase Dimming	**CP** Chicago Plenum
TC949LSQ	**830** 3000K, 85CRI	**N** 24˚ Narrow Flood	**U** 120-277V, 0-10V Dimming	
	835 3500K, 85CRI	**F** 35˚ Flood	**L** 120-277V, Lutron Hi-Lume 3-wire Dimming, Ecosystem Compatible	
	840 4000K, 85CRI		**D** 120V, Lutron Hi-Lume 2-wire Dimming	
	930* 3000K, 93CRI			

*Not ENERGY STAR® Qualified.

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 (Use with 12˚ Optic)	**T7406**	Magenta Dichroic Lens
		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		

Product specifications subject to change without notice.

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, specify catalog number.

JUNO LIGHTING GROUP by Schneider Electric

1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com

Printed in U.S.A. ©2014 Juno Lighting, LLC.

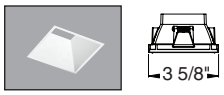
LED RECESSED ADJUSTABLE

TC49LSQ, TC949LSQ

TRIM SELECTION

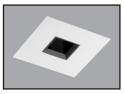
Downlight

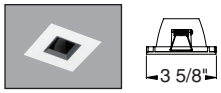
Deep Downlight Reflector



Self Flanged[1]	Flush Mount[2]	Description
437SQBHZ-SF*	437SQBHZ-FM*	Black Haze Reflector
437SQW-SF	437SQW-FM	White Reflector
437SQHZ-SF	437SQHZ-FM	Haze Reflector
437SQWHZ-SF*	437SQWHZ-FM*	Wheat Haze Reflector

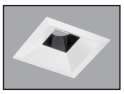
Downlight 1 1/4" Pinhole

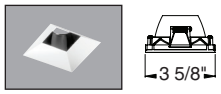




Self Flanged[1]	Flush Mount[2]	Description
4337SQ-WH	4337SQ-WH-FM	White Trim, Black Alzak® Reflector
4337SQ-BL	4337SQ-BL-FM	Black Trim, Black Alzak® Reflector

Downlight Regressed 1 3/4" Pinhole

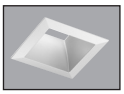




Self Flanged[1]	Flush Mount[2]	Description
4307SQ-WH	4307SQ-WH-FM	White Trim, Black Alzak® Reflector
4307SQ-BL	4307SQ-BL-FM	Black Trim, Black Alzak® Reflector

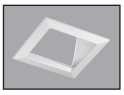
Lensed

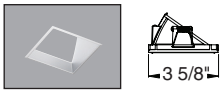
Downlight Lensed Trim



Self Flanged[1]	Flush Mount[2]	Description
432SQBHZ-SF	432SQBHZ-FM	Black Haze Reflector
432SQW-SF	432SQW-FM	White Haze Reflector
432SQHZ-SF	432SQHZ-FM	Haze Reflector
432SQWHZ-SF	432SQWHZ-FM	Wheat Haze Reflector

Angle-Cut Lensed Trim





Self Flanged[1]	Flush Mount[2]	Description
431SQBHZ-SF	431SQBHZ-FM	Black Haze Reflector
431SQW-SF	431SQW-FM	White Haze Reflector
431SQHZ-SF	431SQHZ-FM	Haze Reflector
431SQWHZ-SF	431SQWHZ-FM	Wheat Haze Reflector

* Not ENERGY STAR® Qualified with Black and Wheat Haze Reflectors.

[1]**Self Flanged:** For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

[2]**Flush Mount:** Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

JUNO LIGHTING GROUP by Schneider Electric

1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com

Printed in U.S.A. ©2014 Juno Lighting, LLC.

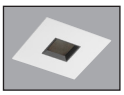
LED RECESSED ADJUSTABLE

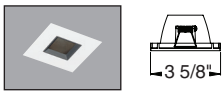
TC49LSQ, TC949LSQ

TRIM SELECTION

Lensed (continued)

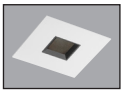
Downlight 1 1/4" Pinhole with Uniformity Lens

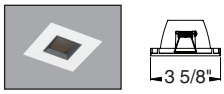




Self Flanged[1]	Flush Mount[2]	Description
4332SQ-WH	4332SQ-WH-FM	White Trim, Black Alzak® Reflector
4332SQ-BL	4332SQ-BL-FM	Black Trim, Black Alzak® Reflector

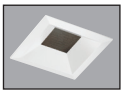
Adjustable 1 1/4" Pinhole with Uniformity Lens

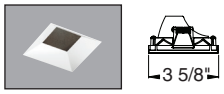




Self Flanged[1]	Flush Mount[2]	Description
4331SQ-WH	4331SQ-WH-FM	White Trim, Black Alzak® Reflector
4331SQ-BL	4331SQ-BL-FM	Black Trim, Black Alzak® Reflector

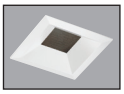
Downlight Regressed 1 3/4" Pinhole with Uniformity Lens

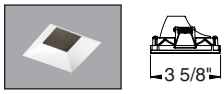




Self Flanged[1]	Flush Mount[2]	Description
4302SQ-WH	4302SQ-WH-FM	White Trim, Black Alzak® Reflector
4302SQ-BL	4302SQ-BL-FM	Black Trim, Black Alzak® Reflector

Adjustable Regressed 1 3/4" Pinhole with Uniformity Lens





Self Flanged[1]	Flush Mount[2]	Description
4301SQ-WH	4301SQ-WH-FM	White Trim, Black Alzak® Reflector
4301SQ-BL	4301SQ-BL-FM	Black Trim, Black Alzak® Reflector

[1]**Self Flanged:** For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

[2]**Flush Mount:** Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

Juno Lighting Group by Schneider Electric
1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com
Printed in U.S.A. ©2014 Juno Lighting, LLC.

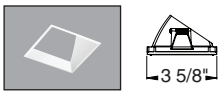
LED RECESSED ADJUSTABLE

TC49LSQ, TC949LSQ

TRIM SELECTION

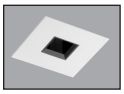
Adjustable Accent

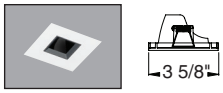
Angle-Cut Reflector



Self Flanged[1]	Flush Mount[2]	Description
438SQBHZ-SF*	438SQBHZ-FM*	Black Haze Reflector
438SQW-SF	438SQW-FM	White Reflector
438SQHZ-SF	438SQHZ-FM	Haze Reflector
438SQWHZ-SF*	438SQWHZ-FM*	Wheat Haze Reflector

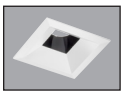
Adjustable 1 1/4" Pinhole

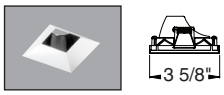




Self Flanged[1]	Flush Mount[2]	Description
433SQ-WH	433SQ-WH-FM	White Trim, Black Alzak® Reflector
433SQ-BL	433SQ-BL-FM	Black Trim, Black Alzak® Reflector

Adjustable Regressed 1 3/4" Pinhole

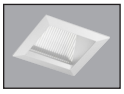




Self Flanged[1]	Flush Mount[2]	Description
4308SQ-WH	4308SQ-WH-FM	White Trim, Black Alzak® Reflector
4308SQ-BL	4308SQ-BL-FM	Black Trim, Black Alzak® Reflector

Wall Wash

Lensed Wall Wash



Self Flanged[1]	Flush Mount[2]	Description
439SQBHZ-SF	439SQBHZ-FM	Black Haze Reflector
439SQW-SF	439SQW-FM	White Haze Reflector
439SQHZ-SF	439SQHZ-FM	Haze Reflector
439SQWHZ-SF	439SQWHZ-FM	Wheat Haze Reflector

* Not ENERGY STAR® Qualified with Black and Wheat Haze Reflectors.

[1]**Self Flanged:** For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

[2]**Flush Mount:** Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

Juno Lighting Group by Schneider Electric
1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com
Printed in U.S.A. ©2014 Juno Lighting, LLC.