



PRODUCT DESCRIPTION

Recessed adjustable 20W LED luminaire produces up to 1000 fixture lumens exceeding the performance of a 75W MR16 halogen 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. IC rated housing for use in insulated or non-insulated areas.

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 • Patented (US Patent 8,950,911) 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 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.

Junction Box Rated for 4 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.

LED RECESSED ADJUSTABLE

3-1/4" SQUARE APERTURE



IC Rated, 1000 LUMEN

IC49LSQ

Project: _____

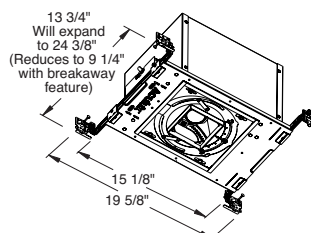
Fixture Type: _____

Location: _____

Contact/Phone: _____



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

LED RECESSED ADJUSTABLE

3-1/4" SQUARE APERTURE

IC Rated, 1000 LUMEN

IC49LSQ

Ordering Information Example: IC49LSQ-835-F-L

Housings	CRI/Color Temperature	Beam Optics	Drivers
IC49LSQ	827 2700K, 85CRI	S 12° Spot	I 120V, Forward & Reverse Phase Dimming
	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
T741	Med. Pink Color Filter	T7411	Blue Green Dichroic Lens
T742	Warm Red Color Filter	T7416	Daylight Blue Correction Lens
T743	Daylight Blue Color Filter	T7420	Diffuse Spread Lens
T744	Med. Blue Color Filter	T7422	UV Filter Lens
T745	Med. Amber Color Filter	T7477	Prismatic Lens
T746	Med. Green Color Filter	T7478	Linear Spread Lens
T7401	Red Dichroic Lens	T7459BL	Hexcell Louver

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.



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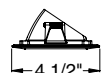
LED RECESSED ADJUSTABLE

IC49LSQ

TRIM SELECTION

Adjustable Accent

Angle-Cut Reflector



Self Flanged¹

438SQBHZ-SF*
438SQW-SF
438SQHZ-SF
438SQWHZ-SF*

Flush Mount²

438SQBHZ-FM*
438SQW-FM
438SQHZ-FM
438SQWHZ-FM*

Description

Black Haze Reflector
White Reflector
Haze Reflector
Wheat Haze Reflector

Adjustable 1 1/4" Pinhole



Self Flanged¹

433SQ-WH
433SQ-BL

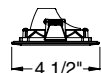
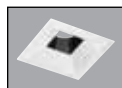
Flush Mount²

433SQ-WH-FM
433SQ-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Adjustable Regressed 1 3/4" Pinhole



Self Flanged¹

4308SQ-WH
4308SQ-BL

Flush Mount²

4308SQ-WH-FM
4308SQ-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Wall Wash

Lensed Wall Wash



Self Flanged¹

439SQBHZ-SF
439SQW-SF
439SQHZ-SF
439SQWHZ-SF

Flush Mount²

439SQBHZ-FM
439SQW-FM
439SQHZ-FM
439SQWHZ-FM

Description

Black Haze Reflector
White Haze Reflector
Haze Reflector
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 "-SEWH".

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