



PRODUCT DESCRIPTION

Recessed adjustable LED luminaire produces up to 2000 delivered lumens. Fixture has 45° visual cutoff and features precision geared hot-aiming. Sealed Air-Loc® housing ensures maximum energy savings and controls plenum sound transmission. Available in both IC and Non-IC rated configurations. IC rated luminaires can be used in insulated or non-insulated areas. Non-IC luminaires must be used in non-insulated areas or where insulation is spaced at least 3" from housing.

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color within 3-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI minimum.

Modular Optics Available with 12° Spot, 24° Narrow Flood, 35° Flood and 50° wide flood field interchangeable optics • Additional distributions of 20°, 30°, 40°, 45° and 60° FWHM can be achieved with the use of the diffusing films and spot primary 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 Self Flanged and Flush Mount reflectors utilize precision wound double torsion springs for tight, secure fit to ceiling • Flange is same finish as reflector unless optional painted white flange is specified • 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 Seven (7) driver options available to accommodate 120-277V input and multiple control protocols • For a list of compatible dimmers, refer to [ACLXLED3-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. Wet location listed with certain trims • Meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Qualified with select trims • IC rated luminaires with 90CRI light engine are certified to high efficacy requirements of California T24 with select color temperatures and trims • IC housings are rated for direct contact with insulation • IC408LSQ and IC412LSQ are compatible with spray foam insulation with an R-Value of 3.7 per inch or less • Union made.

New Construction Mounting Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • All fixtures except for IC420LSQ also feature vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation aids fixture alignment after installation, prior to drywall.

Junction Box Rated for 4 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

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.

3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT
800/1200/1500/2000 LUMEN

SQUARE APERTURE

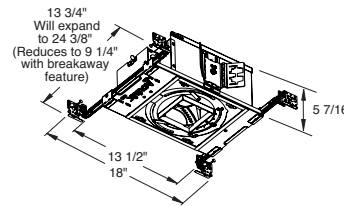
NEW CONSTRUCTION

IC/TC420LSQ, IC415LSQ, IC412LSQ, IC408LSQ

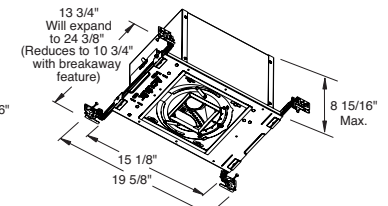


Type	Cat. No.
_____	_____
Project:	_____
Notes:	_____

DIMENSIONS



IC408LSQ, IC412LSQ, IC415LSQ, TC420LSQ



IC420LSQ

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

ELECTRICAL DATA								
Lumen Package	800		1200		1500		2000	
Voltage	120	277	120	277	120	277	120	277
Input Power	9.6W	9.7W	15.1W	15.3W	19.8W	19.8W	27.0W	26.7
Input Current	0.08	0.04	0.13	0.06	0.17	0.08	0.23	0.10
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9

3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT

800/1200/1500/2000 LUMEN

SQUARE APERTURE
NEW CONSTRUCTION
**IC/TC420LSQ, IC415LSQ,
IC412LSQ, IC408LSQ**

Ordering Information Housing, trim and accessories each ordered separately

Example: **IC420LSQ-830-N-1**

Series	CRI/Color Temperature	Optic	Driver	Options
IC408LSQ	800 Lumen, IC Rated 827 2700K, 80CRI	S 12° Spot	I 120V, Forward & Reverse Phase Dimming, 5%	CP* Chicago Plenum
IC412LSQ	1200 Lumen, IC Rated 830 3000K, 80CRI	N 24° Narrow Flood	EZ1 120-277V, eldoLED ECOdrive 0-10V Dimming, 1%	N1¹ nLight® dimming pack, 120V
IC415LSQ	1500 Lumen, IC Rated 835 3500K, 80CRI	F 35° Flood	EZB 120-277V, eldoLED SOLOdrive 0-10V Dimming, 0.1%	N2¹ nLight® dimming pack, 277V
IC420LSQ	2000 Lumen, IC Rated 840 4000K, 80CRI	W 50° Wide Flood	L 120-277V, Lutron Hi-Lume 3-Wire Dimming, Ecosystem Compatible, 1%	CPNL^{1,2} nLight® dimming pack and Chicago Plenum rated
TC420LSQ	2000 Lumen, Non-IC Rated 927 2700K, 90CRI 930 3000K, 90CRI		D 120V, Lutron Hi-Lume 2-Wire Dimming, 1%	*Chicago Plenum not available on IC420LSQ 1 Available with eldoLED drivers only 2 nLight® NPS80EZ ships loose for remote mounting
			M 120-277V, DMX512/RDM	
			A 120-277V, DALI Dimming	

To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film from the table below

Desired FWHM	Primary Optic	Film
12°	S	-
20°	S	AF3-10
24°	N	-
30°	S	AF3-20
35°	F	-
40°	S	AF3-30
45°	S	AF3-40
50°	W	-
60°	S	AF3-50
20°x60°	S	AF3-60x1

Flush Mount Adapters

Cat. #	Description
FMSQ4	Drywall Ceiling Adapter
FMSQ4-SC100-WH	Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, White
FMSQ4-SC100-BL	Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, Black
FMSQ4-SC138-WH	Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, White
FMSQ4-SC138-BL	Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, Black
FMSQ4-SC175-WH	Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, White
FMSQ4-SC175-BL	Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, Black

Optical Accessories

Cat. #	Description	Cat. #	Description
TIR-ACLX3-SP	12° Spot Optic	T746	Med. Green Color Filter
TIR-ACLX3-NFL	24° Narrow Flood Optic	T7401	Red Dichroic Lens
TIR-ACLX3-FL	35° Flood Optic	T7403	Med. Green Dichroic Lens
TIR-ACLX3-WFL	50° Wide Flood Optic	T7404	Med. Blue Dichroic Lens
AF3-10	10° Film (Use with Spot Optic)	T7405	Yellow Dichroic Lens
AF3-20	20° Film (Use with Spot Optic)	T7406	Magenta Dichroic Lens
AF3-30	30° Film (Use with Spot Optic)	T7411	Blue Green Dichroic Lens
AF3-40	40° Film (Use with Spot Optic)	T7416	Daylight Blue Correction Lens
AF3-50	50° Film (Use with Spot Optic)	T7420	Diffuse Spread Lens
AF3-60x1	60°x1° Film (Use with Spot Optic)	T7421	Uniformity Lens
T741	Med. Pink Color Filter	T7422	UV Filter Lens
T742	Warm Red Color Filter	T7477	Prismatic Lens
T743	Daylight Blue Color Filter	T7478	Linear Spread Lens
T744	Med. Blue Color Filter	T7459BL	Hexcell Louver
T745	Med. Amber Color Filter		

Misc. Accessories

Cat. #	Description
CTA45Q-125	1 1/4" Thick Ceiling Adapter
CTA45Q-163	1 5/8" Thick Ceiling Adapter
CTA45Q-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.

Product specifications subject to change without notice.



3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT IC/TC420LSQ, IC415LSQ, IC412LSQ, IC408LSQ

Downlight Trims

Deep Downlight Reflector



Self Flanged¹

4375QBHZ-SF
4375QW-SF
4375QHZ-SF
4375QWHZ-SF

Flush Mount²

4375QBHZ-FM
4375QW-FM
4375QHZ-FM
4375QWHZ-FM

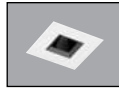
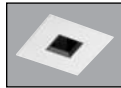
Description

Black Haze Reflector
White Reflector
Haze Reflector
Wheat Haze Reflector

	Construction:	Type IC & Non-IC
	CCT/CRI:	827, 830, 835, 840
	Optic:	S, N, F, W
Trim Finish:		HZ, WHZ, W

	Construction:	Type IC
	CCT/CRI:	927, 930
	Optic:	S, N, F, W
Trim Finish:		BHZ, HZ, WHZ, W

Downlight 1 1/4" Pinhole



Self Flanged¹

43375Q-WH
43375Q-BL

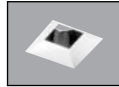
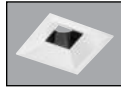
Flush Mount²

43375Q-WH-FM
43375Q-BL-FM

Description

White Trim, Black Alzak[®] Reflector
Black Trim, Black Alzak[®] Reflector

Downlight Regressed 1 3/4" Pinhole



Self Flanged¹

43075Q-WH
43075Q-BL

Flush Mount²

43075Q-WH-FM
43075Q-BL-FM

Description

White Trim, Black Alzak[®] Reflector
Black Trim, Black Alzak[®] Reflector

	Construction:	Type IC & Non-IC
	CCT/CRI:	827, 830, 835, 840
	Optic:	S, N, F

	Construction:	Type IC
	CCT/CRI:	927, 930
	Optic:	S, N, F

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.

3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT IC/TC420LSQ, IC415LSQ, IC412LSQ, IC408LSQ

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

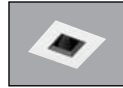
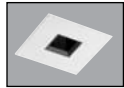
Description

Black Haze Reflector
White Reflector
Haze Reflector
Wheat Haze Reflector

	Construction:	Type IC & Non-IC
	CCT/CRI:	827, 830, 835, 840
	Optic:	S, N, F, W
	Trim Finish:	HZ, WHZ, W

	Construction:	Type IC
	CCT/CRI:	927, 930
	Optic:	S, N, F, W
	Trim Finish:	BHZ, HZ, WHZ, W

Adjustable 1 1/4" Pinhole



Self Flanged¹

433SQ-WH
433SQ-BL

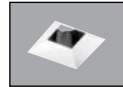
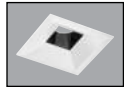
Flush Mount²

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

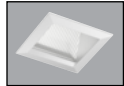
White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

	Construction:	Type IC & Non-IC
	CCT/CRI:	827, 830, 835, 840
	Optic:	S, N, F

	Construction:	Type IC
	CCT/CRI:	927, 930
	Optic:	S, N, F

Lensed Wall Wash

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

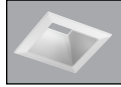
¹**Self Flanged:** For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

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

3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT IC/TC420LSQ, IC415LSQ, IC412LSQ, IC408LSQ

Lensed

Downlight Lensed Trim



Self Flanged¹

432SQBHZ-SF
432SQW-SF
432SQHZ-SF
432SQWHZ-SF

Flush Mount²

432SQBHZ-FM
432SQW-FM
432SQHZ-FM
432SQWHZ-FM

Description

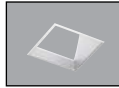
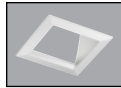
Black Haze Reflector
White Haze Reflector
Haze Reflector
Wheat Haze Reflector



	Construction:	Type IC & Non-IC
	CCT/CRI:	827, 830, 835, 840
	Optic:	S, N, F
Trim Finish:		HZ, WHZ, W

	Construction:	Type IC
	CCT/CRI:	927, 930
	Optic:	S, N, F
Trim Finish:		BHZ, HZ, WHZ, W

Angle-Cut Lensed Trim



Self Flanged¹

431SQBHZ-SF
431SQW-SF
431SQHZ-SF
431SQWHZ-SF

Flush Mount²

431SQBHZ-FM
431SQW-FM
431SQHZ-FM
431SQWHZ-FM

Description

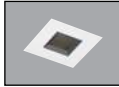
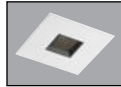
Black Haze Reflector
White Haze Reflector
Haze Reflector
Wheat Haze Reflector



	Construction:	Type IC & Non-IC
	CCT/CRI:	827, 830, 835, 840
	Optic:	S, N, F
Trim Finish:		HZ, WHZ, W

	Construction:	Type IC
	CCT/CRI:	927, 930
	Optic:	S, N, F
Trim Finish:		HZ, WHZ, W

Downlight 1 1/4" Pinhole with Uniformity Lens



Self Flanged¹

4332SQ-WH
4332SQ-BL

Flush Mount²

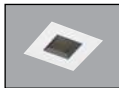
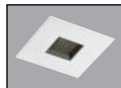
4332SQ-WH-FM
4332SQ-BL-FM

Description

White Trim, Black Alzak[®] Reflector
Black Trim, Black Alzak[®] Reflector



Adjustable 1 1/4" Pinhole with Uniformity Lens



Self Flanged¹

4331SQ-WH
4331SQ-BL

Flush Mount²

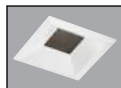
4331SQ-WH-FM
4331SQ-BL-FM

Description

White Trim, Black Alzak[®] Reflector
Black Trim, Black Alzak[®] Reflector



Downlight Regressed 1 3/4" Pinhole with Uniformity Lens



Self Flanged¹

4302SQ-WH
4302SQ-BL

Flush Mount²

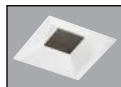
4302SQ-WH-FM
4302SQ-BL-FM

Description

White Trim, Black Alzak[®] Reflector
Black Trim, Black Alzak[®] Reflector



Adjustable Regressed 1 3/4" Pinhole with Uniformity Lens



Self Flanged¹

4301SQ-WH
4301SQ-BL

Flush Mount²

4301SQ-WH-FM
4301SQ-BL-FM

Description

White Trim, Black Alzak[®] Reflector
Black Trim, Black Alzak[®] Reflector



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.