

PRODUCT DESCRIPTION

Low Profile recessed lensed wall wash LED luminaire is less than 4" tall produces up to 1300 delivered lumens. Fixture has 45° visual cutoff and features precision geared hot-aiming. Available in both IC and Non-IC rated configurations.

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 two (2) additional beam control lenses and/or filters.

Reflector Lensed, die cast, anglecut, parabolic reflector maintains low glare, tight corners, and 50° cut-off • Available in haze, black haze, wheat haze, or white finishes • Specular clear kicker reflector directs light toward wall surface.

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 <u>ACLXLED3-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 • IC housings meet energy code Air Leakage requirements per ASTM E283 • IC housings are rated for direct contact with insulation • IC408LPSQ and IC412LPSQ are compatible with spray foam insulation with an R-Value of 3.7 per inch or less • Union made.

New Construction Mounting Shallow new construction fixture is less than 4" tall for applications with limited space • 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 and vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- ½" 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) ½″, (1) ¾″, 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.

LOW PROFILE 3-1/4" LED RECESSED WALL WASH 800/1200/1500/2000 LUMEN

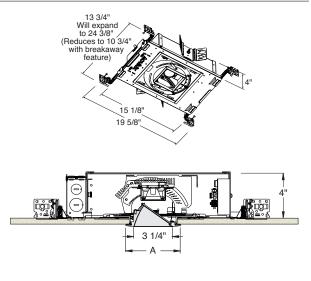
SQUARE LENSED WALL WASH

TC420LPSQ, IC415LPSQ, IC412LPSQ, IC408LPSQ with 439SQ Trim

	Туре	Cat. No.
Project:		
Notes: _		

DIMENSIONS

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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								
Lumen Package	80	00	12	00	15	00	20	00
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	50/6	OHz
Power Factor	>0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9



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xample: TC420LPSQ-830-	N-1							
Series		CRI/Color emperature		Optic		Driver		Options
C408LPSQ800 Lumen, IC RatedC412LPSQ1200 Lumen, IC RatedC415LPSQ1500 Lumen, IC RatedC420LPSQ2000 Lumen, 	827 830 835 840 927	2700K, 80CRI 3000K, 80CRI 3500K, 80CRI 4000K, 80CRI 2700K, 90CRI	S N F W	12° Spot 24° Narrow Flood 35° Flood 50° Wide Flood] - [1 EZ1 EZB L	120V, Forward & Reverse Phase Dimming, 5% 120-277V, eldoLED ECOdrive 0-10V Dimming, 1% 120-277V, eldoLED SOLOdrive 0-10V Dimming, 0.1% 120-277V, Lutron Hi-Lume 3-Wire Dimming, Ecosystem	*Chicag TC420L	Chicago Plenum nLight® dimming pack, 120V nLight® dimming pack, 277V nLight® dimming pack and Chicago Plenum rated to Plenum not available on SQ ble with eldoLED drivers
Narrow Flood is recommer	930 ded for W	3000K, 90CRI Yall Wash.			D M A	Compatible, 1% 120V, Lutron Hi-Lume 2-Wire Dimming, 1% 120-277V, DMX512/RDM 120-277V, DALI Dimming	only	NPS80EZ ships loose for
xample: 439SQW-SF								

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L
L
L

Flush Mount ²	Description
439SQBHZ-FM	Black Haze Reflector
439SQHZ-FM	Haze Reflector
4395QW-FM	White Reflector
439SQWHZ-FM	Wheat Haze Reflector
	439SQBHZ-FM 439SQHZ-FM 439SQW-FM

 $^{1}\mbox{For self}$ flanged reflector with optional white painted flange, replace "-SF" suffix with "-<u>SFWH</u>".

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

Product specifications subject to change without notice.



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Misc. Accessories

To order, specify catalog number.

Description CTA4SQ-125 1 1/4" Thick Ceiling Adapter CTA4SQ-163 1 5/8" Thick Ceiling Adapter CTA4SQ-200 2" Thick Ceiling Adapter

(2) Real Nail 3 Bar Hangers

(2) 27" Linear Bar Hangers

(2) 26" C-Channel Bar Hangers

(2) 50" C-Channel Bar Hangers

20W Emergency Lighting Inverter

Cat. #

HB-1

HB-26

HB-50

LB-27

EMI-20

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-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					

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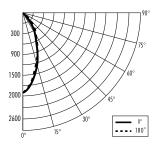
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PHOTOMETRIC REPORT

Test Report #: PT05150107 Catalog No: IC/TC420LSQ-830-N-1 with 439SQHZ Trim

Luminaire Spacing Criterion @ 90°: 0.62 Luminaire: 3-1/4" IC LED Downlight with Lensed Angle Cut Wall Wash Trim



DISTRIBUTION (Candelas) Degrees 0° 180° Wall Wash Vertical Downlight 20 <u>30</u> 35 <u>45</u> 50 55 <u>60</u> 65 75 80

CANDLEPOWER

ZONAL	ZONAL LUMEN SUMMARY				
Zone	Lumens	%Fixture			
0 - 30°	889	68.7			
0 - 40°	1111	85.8			
0 - 60°	1265	97.7			
0 - 90°	1294	100.0			
90-180°	0	0.0			
0-180°	1294	100.0			

LUMINANCE (Average cd/m²)

Average 180°			
Degrees	Downlight Luminance		
45	23824		
55	19932		
65	17522		
75	13679		
85	1693		

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall			18″	2	24″
Fixture	e Centers (spacing)	₼ 18″ ₼	₫ 24″ ₫	₼ 18″ ₼	₫ 24″ ₫
0	1'	21 21 21	18 16 18	13 13 13	11 10 11
CEILIN	2′	38 38 38	30 29 30	26 26 26	20 20 20
CE	3′	50 50 50	39 38 39	32 33 32	26 26 26
ž	4'	48 49 48	38 38 38	38 39 38	30 30 30
FRO	5′	42 42 42	33 33 33	38 38 38	30 30 30
ш	6′	35 35 35	28 28 28	34 35 34	28 28 28
Ž	7′	30 30 30	24 25 24	31 31 31	25 26 25
ISTANC	8'	25 26 25	21 21 21	27 27 27	22 23 22
DIS	9′	20 20 20	17 17 17	22 22 22	18 18 18

LUMEN OUTPUT MULTIPLIERS

Color			Lumen	
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		



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