



LOW PROFILE 3-1/4" LED RECESSED WALL WASH 800/1200/1500/2000 LUMEN LENSED WALL WASH TC420LP, IC415LP, IC412LP, IC408LP with 439N Trim

PRODUCT DESCRIPTION

Low Profile recessed adjustable LED luminaire is less than 4" tall and 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 .040" aluminum angle-cut reflector provides 50° lamp and lamp image cut-off • Specular clear kicker reflector directs light toward wall surface • Reflector finishes include white paint and clear, black, haze or wheat haze Alzak.

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 FMA4 flush mount adapter • For flush mount installations in wood, stone, or tile ceilings the FMA4-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 [ACXL3-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, wet locations • IC housings meet energy code Air Leakage requirements per ASTM E283 • IC housings are rated for direct contact with insulation • IC408LP and IC412LP 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 +/- 1/2" translation aids fixture alignment after installation, prior to drywall.

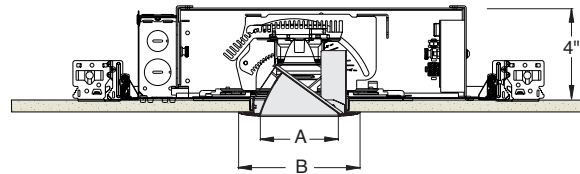
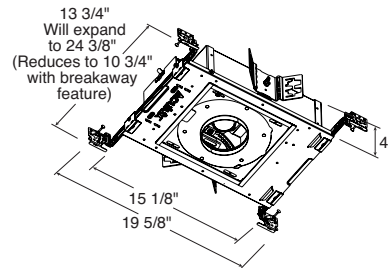
Junction Box Rated for 4 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

Ceiling Thickness 1/2" – 7/8" ceiling standard • For thicker ceilings, order CTA4N-125 (7/8"-1 1/4"), CTA4N-163 (1 1/4"-1 5/8") or CTA4N-200 (1 5/8"-2") • CTA4N not required for wood, stone, or tile flush mount applications.



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

DIMENSIONS



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

	A	B
Trim Ring	3 1/4"	5"
Self Flanged	3 3/8"	4 5/8"
Flush Mount	3 3/8"	3 7/8"

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

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Ordering Information Housing, trim and accessories each ordered separately

Example: **IC412LP-830-N-1**

Series	CRI/Color Temperature	Optic	Driver	Options
IC408LP	800 Lumen, IC Rated 827 2700K, 80CRI	S 12° Spot	I 120V, Forward & Reverse Phase Dimming, 5%	CP* Chicago Plenum
IC412LP	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
IC415LP	1500 Lumen, IC Rated 835 3500K, 80CRI	F 35° Flood	EZB 120-277V, eldoLED SOLdrive 0-10V Dimming, 0.1%	N2¹ nLight® dimming pack, 277V
TC420LP	2000 Lumen, Non-IC Rated 840 4000K, 80CRI 927 2700K, 90CRI 930 3000K, 90CRI	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
			D 120V, Lutron Hi-Lume 2-Wire Dimming, 1%	*Chicago Plenum not available on TC420LP
			M 120-277V, DMX512/RDM	¹ Available with eldoLED drivers only
			A 120-277V, DALI Dimming	² nLight® NPS80EZ ships loose for remote mounting

*Narrow Flood is recommended for Wall Wash.

Example: **439NC-WH**

Trim			
Trim Ring ¹	Self Flanged ²	Flush Mount ³	Description
			
439NB-WH	439NB-SF	439NB-FM	Black Haze Cone
439NC-WH	439NC-SF	439NC-FM	Clear Cone
439NW-WH	439NW-SF	439NW-FM	White Painted Cone
439NHZ-SC	-	-	Haze Cone
439NHZ-WH	439NHZ-SF	439NHZ-FM	Haze Cone
439NWHZ-ABZ	-	-	Wheat Haze Cone
439NWHZ-WH	439NWHZ-SF	439NWHZ-FM	Wheat Haze Cone

¹Trim Ring Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White.
²For self flanged reflector with optional white painted flange, replace "SF" suffix with "SFWH".
³Flush Mount trims must be used with Flush Mount Adapter, ordered separately.
 Product specifications subject to change without notice.



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Flush Mount Adapters

Cat. #	Description
FMA4	Drywall Ceiling Adapter
FMA4-SC087-WH	Wood, Stone, Tile, 1/2"-7/8" Thick Ceiling, Adapter, White
FMA4-SC087-BL	Wood, Stone, Tile, 1/2"-7/8" Thick Ceiling, Adapter, Black
FMA4-SC125-WH	Wood, Stone, Tile, 7/8"-1 1/4" Thick Ceiling, Adapter, White
FMA4-SC125-BL	Wood, Stone, Tile, 7/8"-1 1/4" Thick Ceiling, Adapter, Black
FMA4-SC163-WH	Wood, Stone, Tile, 1 1/4"-1 5/8" Thick Ceiling, Adapter, White
FMA4-SC163-BL	Wood, Stone, Tile, 1 1/4"-1 5/8" 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		

Product specifications subject to change without notice.

Misc. Accessories

Cat. #	Description
CTA4N-125	1 1/4" Thick Ceiling Adapter
CTA4N-163	1 5/8" Thick Ceiling Adapter
CTA4N-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

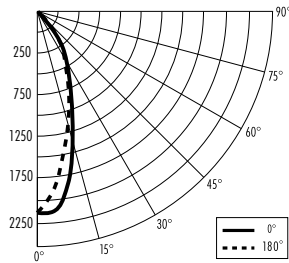
To order, specify catalog number.



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PHOTOMETRIC REPORT

Test Report #: PT05152021
Catalog No: IC/TC420L-830-N-1
 with 439N Trim
Luminaire Spacing Criterion @ 90°: 0.68
Luminaire: 3-1/4" IC LED Downlight with Lensed
 Angle Cut Wall Wash Trim



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees	0°	180°
Vertical	Wall Wash	Downlight
0	2017	2017
5	2025	1852
10	1836	1572
15	1477	1244
20	1089	910
25	752	645
30	488	443
35	283	297
40	171	185
45	112	92
50	78	21
55	56	1
60	44	1
65	37	1
70	30	0
75	20	0
80	8	0
85	1	0
90	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	928	72.2
0 - 40°	1145	89.1
0 - 60°	1268	98.6
0 - 90°	1286	100.0
90 - 180°	0	0.0
0 - 180°	1286	100.0

LUMINANCE (Average cd/m²)

Degrees	Average 180° Downlight Luminance
45	29723
55	18469
65	16355
75	14804
85	1509

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall	18"			24"		
	18"	24"	18"	24"		
1'	17 17 17	15 13 15	11 11 11	9 9 9		
2'	35 35 35	28 27 28	21 22 21	17 17 17		
3'	51 51 51	41 40 41	32 32 32	25 25 25		
4'	53 53 53	41 41 41	40 40 40	31 31 31		
5'	46 46 46	36 37 36	41 41 41	32 32 32		
6'	38 39 38	31 31 31	38 38 38	31 31 31		
7'	32 33 32	26 27 26	34 34 34	28 28 28		
8'	27 28 27	22 23 22	30 30 30	24 25 24		
9'	21 22 21	18 19 18	24 25 24	20 20 20		

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen 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		

