

LED RECESSED DOWNLIGHT

PRODUCT DESCRIPTION

Recessed downlight 20W LED luminaire with 1¾" lensed regressed pinhole aperture produces up to 800 fixture lumens and approximates the performance of a 75W MR16 lamp. Fixture has 50° visual cutoff and features precision geared hotaiming. 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

Reflector .040" aluminum parabolic reflector in black Alzak finish shields housing interior.

Trims Style Die Cast Trim Ring and Flush Mount trims utilize torsion spring retention for tight, secure fit to ceiling • Flush Mount trim creates a truly trimless aperture • Features solite glass lens on aperture • 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 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 (-U) 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 <u>ACLXLED-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 • Meets energy code Air Leakage requirements per ASTM E283 • Union made.

Mounting TC49L 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.

TC949L is equipped with vertically adjustable mounting brackets that accept $\frac{1}{2}$ 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 aids fixture alignment after installation, prior to drawall

Ceiling Thickness 1/2" − 7/8" ceiling standard • For thicker ceilings, order CTA4N-125 [7/8"-1 1/4"), CTA4N-163 [1 1/4"-15/8"] or CTA4N-200 (1 5/8"-2") • CTA4N not required for wood, stone, or tile flush mount applications.

1-3/4" LENSED REGRESSED
PINHOLE APERTURE
Non-IC Rated, 1000 LUMEN

TC49L-4302N, TC949L-4302N

Project:

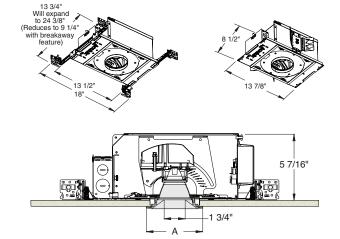
Fixture Type:

Location:

Contact/Phone:



DIMENSIONS



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

	Α
Trim Ring	4 5/8"
Flush Mount	3 7/8"

ELECTRICAL DATA

FFF GIIVI	CAL DAIA			
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



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Non-IC Rated, 1000 LUMEN

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Ordering Information Housing, trim and accessories each ordered separately

Example: TC	49L-8	30-N-U							Example: 4302N	I-WH		
Housings		I/Color perature		Beam Optics		Drivers		Options		Trim/D	escription	
			- <u> </u>			1001	-L	- 01:				
TC49L	827	2700K, 85CRI	S	12° Spot	1	120V, Forward	CI	P Chicago Plenum				
TC949L	830	3000K,	N	24° Narrow Flood		& Reverse Phase		110110111				
		85CRI	F	35° Flood		Dimming				-1 1		
	835	3500K, 85CRI			U	120-277V, 0-10V			Trim Ring	Flush Mount	Description	-
	940	4000K,				Dimming			4302N-WH 4302N-BL	4302N-WH-FM 4302N-BL-FM	White Trim Black Trim	
	040	85CRI			L	120-277V, Lutron			¹ Flush Mount trims	must be used with FM	A4 Flush Mount A	Adapter, ordered separately
	930	3000K, 93CRI				Hi-Lume 3-wire Dimming, Ecosystem Compatible			Product specification	ons subject to change	without notice.	
					D	120V, Lutron Hi-Lume 2-wire Dimming						

Flush Mount Adapters

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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

Opincai i	1000001100		
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	T7406	Magenta Dichroic Lens
	(Use with 12° Optic)	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		

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, spec	cify catalog number.



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1-3/4" LENSED REGRESSED PINHOLE APERTURE

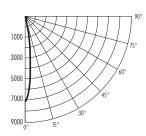
Non-IC Rated, 1000 LUMEN

TC49L-4302N, TC949L-4302N

PHOTOMETRIC REPORT

Test Report #: PT05121602 Catalog No: TC49L-830-S-U with 4302N-WH Trim

Luminaire Spacing Criterion: 0.3 Lumingire LPW: 38.6



CANDLEPOWER DISTRIBUTION

(Candelas)

,	1
Degrees	
Vertical	0°
0	7098
5	5037
15	898
25	90
35	10
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0′	55	51	48
5.0°	35	33	31
6.0′	24	23	21
7.0°	20	18	17
8.0°	16	15	14
9.0′	12	11	10
10.0′	9	8	8

ZONAL LUMEN SUMMARY

			• •
Zone	Lumens	%Fixture	
0-30°	762	98.8	
0 - 40°	771	99.9	
0-60°	771	100.0	
0 - 90°	771	100.0	

INITIAL FOOTCANDLES

(One Unit, 20.0W, 15° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	197.2	1.6′
8	110.9	2.1'
10	71.0	2.6'
12	49.3	3.2'

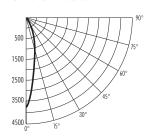
LUMINANCE (Average cd/m²)

	Average	
Degrees	Average Luminance	
45	0	
55	0	
65	0	
75	0	
85	0	

PHOTOMETRIC REPORT

Test Report #: PT05121609 Catalog No: TC49L-830-N-U with 4302N-WH Trim

Luminaire Spacing Criterion: 0.41 Luminaire LPW: 39.0



CANDLEPOWER **DISTRIBUTION** (Candelas)

/ Garragia	٠,	
Degrees		
Vertical	0°	
0	3779	
5	3309	
15	1269	
25	189	
35	27	
45	4	
55	0	
65	0	
75	0	
85	0	

0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

coming ou	o rran o	0 /0 1 1001 2	0 70
Spacing	RCR1	RCR3	RCR5
4.0′	55	51	47
5.0′	35	32	30
6.0′	24	23	21
7.0′	20	18	17
8.0′	16	14	13
9.0′	12	11	10
10.0′	9	8	7

70NAL LUMEN CUMMADY

ZOMAL LUMEN SUMMAKI					
Zone	Lumens	%Fixture			
0 - 30°	756	97.5			
0 - 40°	776	99.6			
0 - 60°	780	100.0			
0 - 90°	780	100.0			

INITIAL FOOTCANDLES

(One Unit, 20.0W, 24.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	105.0	2.6′
8	59.0	3.4'
10	37.8	4.3'
12	26.2	5.1'

LUMINANCE (Average cd/m²)

Average				
Degr	ees L	uminance		
45)	836		
55	,	0		
65	,	0		
75)	0		
85)	0		

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Multipliers: 827 - 0.92

90

930 - 0.92 835 - 1.01



