

LED REMODEL ADJUSTABLE

1-1/4" LENSED
PINHOLE APERTURE

Non-IC Rated, 13W LED

TC43LR-4331N



PRODUCT DESCRIPTION

Recessed adjustable 13W LED remodel luminaire with 1 1/4" lensed pinhole aperture produces up to 440 fixture lumens and approximates the performance of a 50W MR16 lamp. Fixture has 50° visual cutoff. Low profile non-IC rated housing for use in non-insulated areas or where insulation is spaced at least 3" from housing. Installs quickly and securely with patented (US Patent 7,191,993) push-pull cable system through ceiling opening.

PRODUCT SPECIFICATIONS

LED Light Engine Replaceable LED array with connector mounts directly to high purity aluminum heat sink to provide superior thermal management • 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 in three (3) factory-configured beam spreads, the optics are field interchangeable if other beam spreads are required after fixture installation • 12° Spot, 24° Narrow Flood, and 35° Flood optics available • Patent pending auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position and accommodates up to two (2) additional beam control lenses and/or filters.

Adjustability 370° rotation, 35° tilt hot aiming with locking • Optimized optics translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Reflector .040" aluminum angle-cut reflector in black Alzak finish coupled with solite lens, shields housing interior.

Trims Style Trim Ring reflectors utilize torsion spring retention for tight, secure fit to ceiling • Trim ring features beveled knife edge for clean ceiling interface.

LED Driver Choice of three 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 A Series (-L) driver is 3-wire dimmable and compatible with EcoSystem® • 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, wet locations • Union made.

Patented (US Patent 7,191,993) "Push-Pull" Cable System Allows rapid installation without tools or loose parts • Housing accommodates ceiling thickness from 3/8" to 2" without altering photometrics • Fits 2 x 6 construction.

Junction Box Includes (5) 1/2" and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

Housing/Mounting Frame Galvanized steel plaster frame • Housing anodized black for visually dark interior • Packaged for ease of rapid installation.

Project: _____

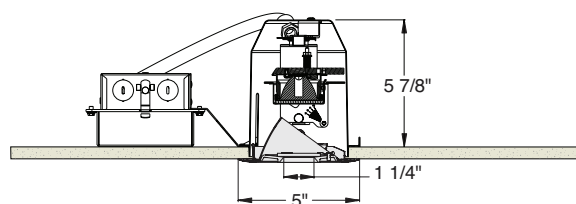
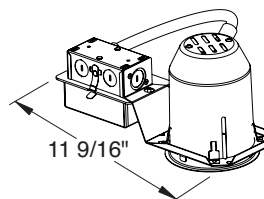
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



4 3/8" CEILING CUTOUT*

ELECTRICAL DATA

Driver Option	Dedicated 120V (-1)	Universal Voltage (-U)		Lutron A Series (-L)	
Voltage	120	120	277	120	277
Input Power	12.8	13.7	14.1	12.6	13.6
Input Current	0.10	0.11	0.05	0.10	0.05
Frequency	50/60Hz	50/60Hz		50/60Hz	
Power Factor	0.99	0.99	0.90	0.99	0.94

*For best results, a hole saw is recommended.

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Ordering Information

Housing, trim and accessories each ordered separately

Example: **TC43LR-830-N-1**

Housing	CRI/Color Temperature	Beam Optics	Drivers
TC43LR	827 2700K, 85CRI	S 12° Spot	1 120V, Forward & Reverse Phase Dimming
	830 3000K, 85CRI	N 24° Narrow Flood	
	835 3500K, 85CRI	F 35° Flood	U 120-277V, 0-10V Dimming
	840 4000K, 85CRI		L 120-277V, Lutron 3-wire Dimming, Ecosystem Compatible
	930 3000K, 93CRI		

Accessories

Cat. #	Description	Cat. #	Description
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
T7403	Med. Green Dichroic Lens	TIR-1-SP	12° Spot Optic
T7404	Med. Blue Dichroic Lens	TIR-1-NFL	24° Narrow Flood Optic
T7405	Yellow Dichroic Lens	TIR-1-FL	35° Flood Optic
T7406	Magenta Dichroic Lens	EMI-20	20W Emergency Lighting Inverter

To order, specify catalog number.

Example: **4331N-WH**

Trim/Description



Trim Ring	Description
4331N-WH	White Trim Ring
4331N-ABZ	Aged Bronze Trim Ring
4331N-SC	Satin Chrome Trim Ring

Trim Ring Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White.

Product specifications subject to change without notice.

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PHOTOMETRIC REPORT

Test Report: PT0512603

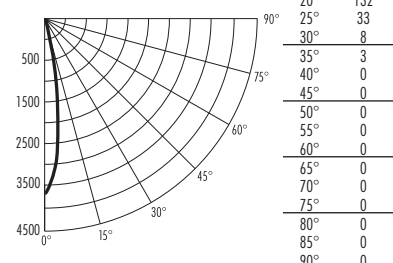
Catalog No: TC43LR-830-S-1 (Aim at 0°)
with 4331N-WH trim

Luminaire Spacing Criterion: 0.31

Watts: 12.8

Lumens: 414

Luminaire LPW: 32.3



PHOTOMETRIC REPORT

Test Report: PT05121701

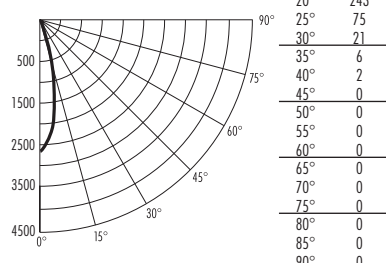
Catalog No: TC43LR-830-N-1 (Aim at 0°)
with 4331N-WH trim

Luminaire Spacing Criterion: 0.37

Watts: 12.9

Lumens: 444

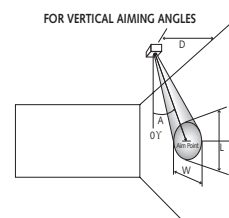
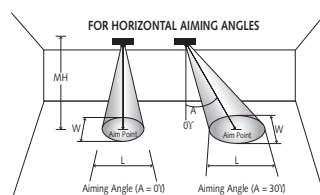
Luminaire LPW: 34.4



CBCP • Centerbeam candlepower

FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Horizontal Aiming Angles



Vertical Aiming Angles



LED	Beam Type	Beam Spread°	Rated Life	CBCP	0°			30°			30°			40°		
					MH	FC	L	W	FC	L	W	D	FC	X	L	W
3000K, 80 CRI	SP	12°	50,000	9586	6	266	1.3	1.3	173	1.7	1.5	3	133	5.2	2.6	1.3
					8	150	1.7	1.7	97	2.3	1.9	4	75	6.9	3.5	1.7
					10	96	2.1	2.1	62	2.8	2.4	5	48	8.7	4.3	2.1
					12	67	2.5	2.5	43	3.4	2.9	6	33	10.4	5.2	2.5
	NFL	24°	50,000	4338	14	49	2.9	2.9	32	3.9	3.4	7	24	12.1	6.1	2.9
					4	271	1.7	1.7	176	2.3	2.0	2	136	3.5	3.9	1.7
					6	121	2.6	2.6	78	3.5	2.9	3	60	5.2	5.9	2.6
					8	68	3.4	3.4	44	4.6	3.9	4	34	6.9	7.9	3.4
	FL	35°	50,000	1678	10	43	4.3	4.3	28	5.8	4.9	5	22	8.7	9.8	4.3
					12	30	5.1	5.1	20	6.9	5.9	6	15	10.4	11.8	5.1
					4	105	2.5	2.5	68	3.5	2.9	2	52	3.5	7.2	2.5
					6	47	3.8	3.8	30	5.2	4.4	3	23	5.2	10.8	3.8
					8	26	5.0	5.0	17	7.0	5.8	4	13	6.9	14.4	5.0
					10	17	6.3	6.3	11	8.7	7.3	5	8	8.7	18.0	5.0
					12	12	7.6	7.6	8	10.4	8.7	6	6	10.4	21.6	7.6

Multipliers: 827 - 0.92
930 - 0.92
835 - 1.01
840 - 1.02



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