

PRODUCT DESCRIPTION

Recessed downlight 13W LED remodel luminaire with 1 3/4" lensed regressed pinhole aperture produces up to 600 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.

Reflector .040" aluminum parabolic reflector in black Alzak finish 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 (-I) 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.

LED REMODEL DOWNLIGHT

1-3/4" LENSED REGRESSED PINHOLE APERTURE



Non-IC Rated, 13W LED

TC43LR-4302N

Project: _____

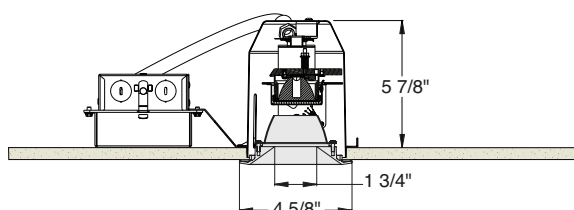
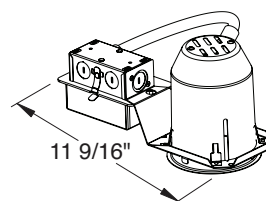
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



4 3/8" CEILING CUTOUT*

ELECTRICAL DATA

Driver Option	Dedicated 120V (-I)	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.

LED REMODEL DOWNLIGHT

1-3/4" LENSED REGRESSED PINHOLE APERTURE

Non-IC Rated, 13W LED

TC43LR-4302N

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: **4302N-WH**

Trim/Description



Trim Ring	Description
4302N-WH	White Trim Ring

Product specifications subject to change without notice.

LED REMODEL DOWNLIGHT

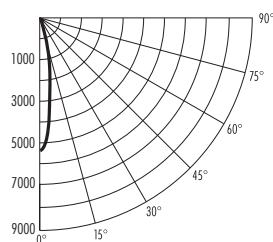
1-3/4" LENSED REGRESSED PINHOLE APERTURE

Non-IC Rated, 13W LED

TC43LR-4302N

PHOTOMETRIC REPORT

Test Report #: PT05121602
 Catalog No: TC43LR-830-S-1
 with 4302N-WH Trim
 Luminaire Spacing Criterion: 0.3
 Luminaire LPW: 45.6

**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees	0°
0	5286
5	3751
15	669
25	67
35	7
45	0
55	0
65	0
75	0
85	0
90	0
Multipliers: 827 - 0.92	
	930 - 0.92
	835 - 1.01
	840 - 1.02

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	47	44	42
5.0'	30	28	27
6.0'	21	20	19
7.0'	17	16	15
8.0'	13	13	12
9.0'	10	10	9
10.0'	8	7	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	579	99.2
0 - 40°	584	100.0
0 - 60°	584	100.0
0 - 90°	584	100.0

INITIAL FOOTCANDLES

(One Unit, 12.8W, 15.0° Beam)

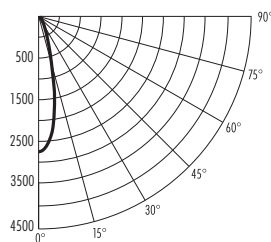
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	146.8	1.6'
8	82.6	2.1'
10	52.8	2.6'
12	36.8	3.2'

LUMINANCE (Average cd/m²)

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

PHOTOMETRIC REPORT

Test Report #: PT05121609
 Catalog No: TC43LR-830-N-1
 with 4302N-WH Trim
 Luminaire Spacing Criterion: 0.41
 Luminaire LPW: 45.2

**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees	0°
0	2814
5	2464
15	945
25	141
35	20
45	3
55	0
65	0
75	0
85	0
90	0
Multipliers: 827 - 0.92	
	930 - 0.92
	835 - 1.01
	840 - 1.02

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	48	44	41
5.0'	31	28	27
6.0'	21	20	18
7.0'	17	16	15
8.0'	14	13	12
9.0'	10	10	9
10.0'	8	7	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	568	97.5
0 - 40°	581	99.6
0 - 60°	583	100.0
0 - 90°	583	100.0

INITIAL FOOTCANDLES

(One Unit, 12.9W, 24.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	78.1	2.6'
8	44.0	3.4'
10	28.1	4.3'
12	19.5	5.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	623
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.