

# LED REMODEL DOWNLIGHT

#### PRODUCT DESCRIPTION

Recessed downlight 13W LED remodel luminaire with 3½" lensed downlight aperture produces up to 650 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 throught 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 clear, gold, black, haze, or wheat haze Alzak finish provides 50° lamp and lamp image cut-off.

**Trims Style** Trim Ring and Self Flanged 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.

**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 <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, wet locations with suitable trims

• 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) ½" and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

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

# 3-1/4" LENSED DOWNLIGHT CONE Non-IC Rated, 13W LED



# TC43LR-432N

Project:

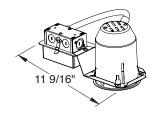
Fixture Type:

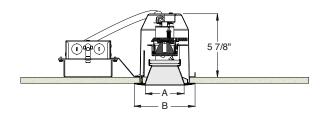
Location:

Contact/Phone:



## **DIMENSIONS**





4 3/8" CEILING CUTOUT\*

	Α	В
Trim Ring	3 1/4"	5″
Self Flanged	3 3/8"	4 5/8"

## **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

<sup>\*</sup>For best results, a hole saw is recommended



# LED REMODEL DOWNLIGHT

3-1/4" LENSED DOWNLIGHT CONE

Non-IC Rated, 13W LED

# TC43LR-432N

Ordering Information Housing, trim and accessories each ordered separately Example: 432NC-WH Example: TC43LR-830-N-1 CRI/Color Beam Housing Drivers Temperature Optics **Trim/Description** TC43LR 2700K, 85CRI 120V, 12° Spot 827 S Forward 24° Narrow Flood & Reverse Phase 830 85CRI Dimming 35° Flood 3500K, 120-277V, 0-10V 835 Trim Ring Self Flanged<sup>2</sup> Description 85CRI 432NB-WH 432NB-SF Black Cone Dimming 432NC-WH 432NC-SF Clear Cone 4000K 840 432NG-WH 432NG-SF **Gold Cone** 85CRI 120-277V, 432NHZ-SC 432NHZ-SF Haze Cone Lutron 432NHZ-WH Haze Cone, White Ring 930 3000K, 93CRI 3-wire Wheat Haze Cone 432NWHZ-ABZ 432NWHZ-SF Dimming, Wheat Haze Cone, White Ring 432NWHZ-WH Ecosyste Compatible <sup>1</sup>Trim Ring Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White. **Accessories** <sup>2</sup>For self flanged reflector with optional white painted flange, replace "-SF" suffix Cat. # Description Cat. # **Description** with "-SFWH" T741 Med. Pink Color Filter T7411 Blue Green Dichroic Lens Product specifications subject to change without notice. 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 Med. Green Color Filter Linear Spread Lens T746 T7478

T7401

T7403

T7404

T7405

T7406

Red Dichroic Lens

Med. Green Dichroic Lens

Med Blue Dichroic Lens

Yellow Dichroic Lens

Magenta Dichroic Lens

To order, specify catalog number.

T7459BL

TIR-1-SP

TIR-1-NFL

TIR-1-FL

EMI-20

Hexcell Louver

12° Spot Optic

35° Flood Optic

20W Emergency

Lighting Inverter

24° Narrow Flood Optic

# LED REMODEL DOWNLIGHT

3-1/4" LENSED DOWNLIGHT CONE

Non-IC Rated, 13W LED

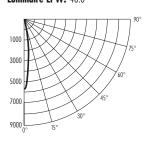
# TC43LR-432N

#### PHOTOMETRIC REPORT

Test Report #: PT05121604 Catalog No: TC43LR-830-S-1

with 432NC-WH Trim

**Luminaire Spacing Criterion:** 0.29 Luminaire LPW: 48.0



## **CANDLEPOWER DISTRIBUTION**

# **AVERAGE INITIAL FOOTCANDLES**

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

209 2070 774 2070 7207			
Spacing	RCR1	RCR3	RCR5
4.0′	44	41	38
5.0′	28	26	25
6.0′	19	18	17
7.0′	16	15	14
8.0′	12	12	11
9.0′	10	9	8
10.0′	7	7	6

### ZONAL LUMEN SUMMARY

ZOMAL LOMEN SOMMAKI				

## **INITIAL FOOTCANDLES**

(One Unit, 12.8W, 14.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	161.9	1.5′
8	91.1	2.0'
10	58.3	2.5'
12	40.5	3.1'

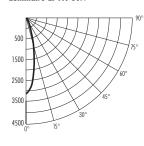
### LUMINANCE (Average cd/m²)

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

#### PHOTOMETRIC REPORT

Test Report #: PT05121702 Catalog No: TC43LR-830-N-1 with 432NC-WH Trim

**Luminaire Spacing Criterion: 0.39** Luminaire LPW: 50.4



### **CANDLEPOWER** DISTRIBUTION

930 - 0.92 835 - 1.01 840 - 1.02

Multipliers: 827 - 0.92

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

0

0

## **AVERAGE INITIAL FOOTCANDLES**

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

Spacing	RCR1	RCR3	RCR5
4.0′	46	42	39
5.0′	29	27	25
6.0′	20	19	17
7.0′	17	15	14
8.0′	13	12	11
9.0′	10	9	8
10.0′	7	7	6

## **ZONAL LUMEN SUMMARY**

Zone	Lumens	%Fixture	
0-30°	626	96.2	
0 - 40°	648	99.7	
0-60°	650	100.0	
0-90°	650	100.0	

## **INITIAL FOOTCANDLES**

(One Unit, 12.9W, 23.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	91.1	2.4'
8	51.3	3.3'
10	32.8	4.1′
12	22.8	4.9'

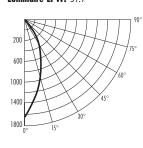
## **LUMINANCE** (Average cd/m²)

Average		
Degrees	Luminance	
45	477	
55	0	
65	0	
75	0	
85	0	

#### PHOTOMETRIC REPORT

Test Report #: PT05121704 Catalog No: TC43LR-830-F-1 with 432NC-WH Trim

**Luminaire Spacing Criterion:** 0.57 Luminaire LPW: 51.9



#### **CANDLEPOWER DISTRIBUTION**

(Candelas)

85

90

Degrees	
Vertical	0°
0	1622
5	1397
15	954
25	421
35	89
45	12
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%

coming cover than covernoon zove				
Spacing	RCR1	RCR3	RCR5	
4.0′	46	42	37	
5.0′	30	27	24	
6.0′	21	18	17	
7.0′	17	15	13	
8.0′	13	12	11	
9.0*	10	9	8	
10.0′	7	7	6	

## **ZONAL LUMEN SUMMARY**

	Zone	Lumens	%Fixture	
_	0-30°	588	88.5	
Т	0 - 40°	654	98.4	
_	0 - 60°	664	100.0	
	0 - 90°	664	100.0	
_				

#### **INITIAL FOOTCANDLES**

(One Unit, 12.8W, 35.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	45.1	3.8′
6	25.3	5.1′
8	16.2	6.3'
10	11.3	7.6′

# LUMINANCE (Average cd/m²)

	Average		
Degrees	Luminance		
45	2623		
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.

