



## 2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

LENSED DOWNLIGHT CONE

**REMODEL**

**TC207LDR, TC210LDR  
TC207LAR, TC210LAR  
with 2002 Trim**



### PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 2" round aperture delivers up to 950 lumens and is available with optical distributions approximating that of MR16 halogen lamps. Fixture has 50° visual cut-off for low aperture brightness. Low profile remodel housing is non-IC rated 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 a 2-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K are also available with 90 CRI minimum.

**Modular Optics** Available with field interchangeable optics in 18° Spot, 24° Narrow Flood, 35° Flood, and 45° wide flood distributions.

**Reflector** .040" aluminum reflector in clear specular, black specular, haze, or wheat haze Alzak finish provides 50° cut-off.

**Trims Style** Self Flanged and Flush Mount styles are available  
 • Flange is same finish as reflector unless optional painted white flange is specified  
 • For flush mount installations in drywall ceilings, specify the FMA2R adapter.

**LED Driver** Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • 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 • For a list of compatible dimmers, refer to [ACLXLED2-DIM](#) • Power Factor > 0.9  
 • Field replaceable from above or below 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 wet locations • ENERGY STAR® Qualified with select trim finishes • Union made.

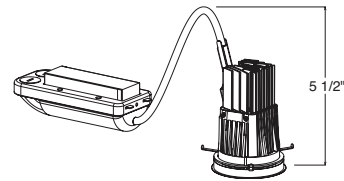
**Remodel Installation** Fixture installs from below the ceiling and secured to remodel ring.

**Wiring** Includes (2) 1/2" knockouts equipped with pryout slots and are compatible with flexible electrical supply only • Supplied with quick connect electrical connectors.

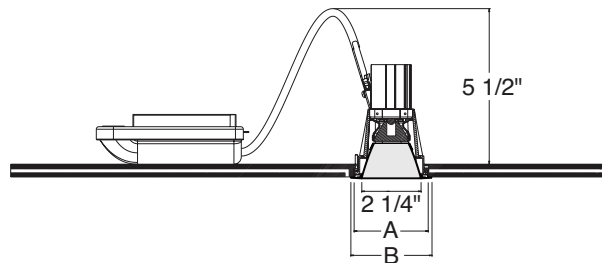
**Ceiling Thickness** 1/2" – 1 1/2" ceiling standard.

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

### DIMENSIONS



**TC207LDR, TC210LDR  
TC207LAR, TC210LAR**



Trim Style	Cutout Size (A)	Trim O.D. (B)
Self Flanged Trims	2.953" (75mm)	3.20"
Flush Mount Trims (Drywall Ceiling)	3"	2.875"

Note: An accurate hole saw is recommended for best results.

### ELECTRICAL DATA

Lumen Package	700			1000		
	Dedicated 120V (-1)	Universal Voltage (-U)	277	Dedicated 120V (-1)	Universal Voltage (-U)	277
Driver Option						
Voltage	120	120	277	120	120	277
Input Power	10.1	9.6	9.6	14.8	14.8	14.6
Input Current	0.09	0.08	0.04	0.12	0.12	0.06
Frequency	50/60Hz	50/60Hz		50/60Hz	50/60Hz	
Power Factor	0.99	0.99	0.93	0.99	0.99	0.95

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**Ordering Information** Housing, trim and accessories each ordered separately

Example: **TC207LD-830-N-1**

Series	CRI/CCT	Optic	Driver
<b>TC207LDR</b> 700 lm Downlight, Non-IC	<b>827</b> 80 CRI, 2700K	<b>S</b> 18° Spot	<b>I</b> 120V, Phase Dimming
<b>TC210LDR</b> 1000 lm Downlight, Non-IC	<b>830</b> 80 CRI, 3000K	<b>N</b> 24° Narrow Flood	<b>U</b> 120-277V, 0-10V Dimming
<b>TC207LAR</b> 700 lm Adjustable, Non-IC	<b>835</b> 80 CRI, 3500K	<b>F</b> 35° Flood	
<b>TC210LAR</b> 1000 lm Adjustable, Non-IC	<b>840</b> 80 CRI, 4000K	<b>W</b> 45° Wide Flood	
	<b>927</b> 90 CRI, 2700K		
	<b>930</b> 90 CRI, 3000K		

Example: **2002C-SF**

Trim/Description		
		
Self Flanged <sup>1</sup>	Flush Mount <sup>2</sup>	Description
<b>2002C-SF</b>	<b>2002C-FM</b>	Clear Specular Cone
<b>2002B-SF</b>	<b>2002B-FM</b>	Black Specular Cone
<b>2002HZ-SF</b>	<b>2002HZ-FM</b>	Haze Cone
<b>2002W-SF</b>	<b>2002W-FM</b>	White Cone
<b>2002WHZ-SF</b>	<b>2002WHZ-FM</b>	Wheat Haze Cone

<sup>1</sup>For self flanged reflector with optional white painted flange, replace ".SF" suffix with ".SFWH".

<sup>2</sup>Flush Mount trims must be used with Flush Mount Adapter in drywall ceilings, ordered separately.


Product specifications subject to change without notice.

**Accessories**

Cat. #	Description
<b>FMA2R</b>	Remodel Flush Mount Adapter for drywall ceilings
<b>TIR-ACLX2-SP</b>	18° Spot Optic
<b>TIR-ACLX2-NFL</b>	24° Narrow Flood Optic
<b>TIR-ACLX2-FL</b>	35° Flood Optic
<b>TIR-ACLX2-WFL</b>	45° Wide Flood Optic
<b>AF2-SPREAD</b>	35mm Linear Spread Optic Film
<b>AF2-DIFFUSION</b>	35mm Diffusion Optic Film
<b>EMI-20</b>	20W Emergency Lighting Inverter

**LUMEN OUTPUT MULTIPLIERS**

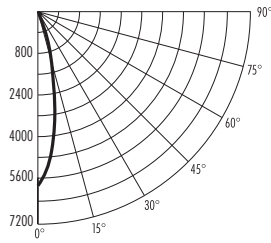
Color Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77

	<b>Construction:</b>	Type Non-IC
	<b>CCT/CRI:</b>	827, 830, 835, 840
	<b>Optic:</b>	S, N, F, W
	<b>Trim Finish:</b>	C, HZ, WHZ, B, W



**PHOTOMETRIC REPORT**

Test Report #: PTO2140109  
 Catalog No: IC/TC210LDR-830-S-1  
 with 2002HZ trim  
 Luminaire Spacing Criterion: 0.36  
 Luminaire LPW: 63



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	5714
5	4854
15	1411
25	228
35	36
45	3
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'	66	61	57
5.0'	42	39	36
6.0'	29	27	25
7.0'	24	22	20
8.0'	19	17	16
9.0'	14	13	12
10.0'	11	10	9

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 20.3° Beam)

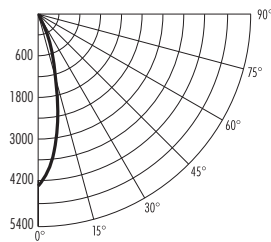
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	158.7	2.1'
8	89.3	2.9'
10	57.1	3.6'
12	39.7	4.3'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	1273
55	54
65	0
75	0
85	0

**PHOTOMETRIC REPORT**

Test Report #: PTO2140105  
 Catalog No: IC/TC210LDR-830-W-1  
 with 2002HZ trim  
 Luminaire Spacing Criterion: 0.40  
 Luminaire LPW: 58



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	4280
5	3689
15	1361
25	290
35	43
45	5
55	1
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'	62	56	52
5.0'	39	36	33
6.0'	27	25	23
7.0'	22	20	19
8.0'	18	16	15
9.0'	13	12	11
10.0'	10	9	8

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 23° Beam)

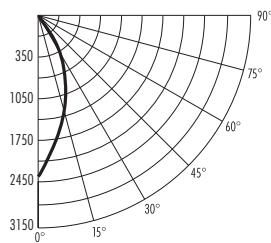
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	118.9	2.4'
8	66.9	3.3'
10	42.8	4.1'
12	29.7	4.9'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	2108
55	433
65	294
75	120
85	356

**PHOTOMETRIC REPORT**

Test Report #: PTO2140101  
 Catalog No: IC/TC210LDR-830-F-1  
 with 2002HZ trim  
 Luminaire Spacing Criterion: 0.54  
 Luminaire LPW: 55



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	2344
5	1993
15	1267
25	514
35	76
45	7
55	1
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'	58	52	47
5.0'	37	34	30
6.0'	26	23	21
7.0'	21	19	17
8.0'	17	15	13
9.0'	13	11	10
10.0'	9	8	8

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 32.4° Beam)

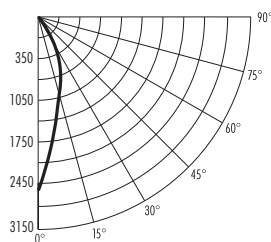
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	65.1	3.5'
8	36.6	4.6'
10	23.4	5.8'
12	16.3	7.0'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	3030
55	650
65	367
75	120
85	0

**PHOTOMETRIC REPORT**

Test Report #: PTO2140113  
 Catalog No: IC/TC210LDR-830-W-1  
 with 2002HZ trim  
 Luminaire Spacing Criterion: 0.38  
 Luminaire LPW: 53



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	2498
5	1864
15	1041
25	564
35	105
45	11
55	2
65	1
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'	56	50	45
5.0'	36	32	29
6.0'	25	22	20
7.0'	20	18	16
8.0'	16	14	13
9.0'	12	11	10
10.0'	9	8	7

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 22.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	69.4	2.4'
8	39.0	3.2'
10	25.0	4.1'
12	17.3	4.9'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	4918
55	1137
65	661
75	360
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. Photometry is at 3000K CCT.



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