



## 2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

1-3/8" REGRESSED PINHOLE

**REMODEL**

**TC207LDR, TC210LDR  
TC207LAR, TC210LAR  
with 2307 Trim**



### PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 1-3/8" regressed pinhole aperture delivers up to 810 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** Black reflector shields the interior of the housing.

**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 damp locations • ENERGY STAR® Qualified with spot, narrow flood, and flood optics • Union made.

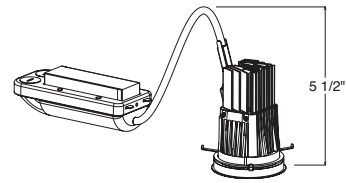
**Remodel Installation** Fixture installs from below the ceiling and secured to remodel ring.

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

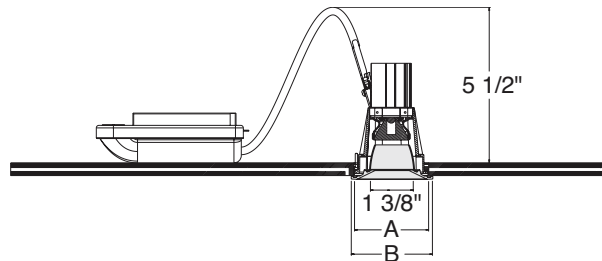
**Ceiling Thickness** 1/2" – 1 1/2" ceiling standard.

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		
	Driver Option	Dedicated 120V (-1)	Universal Voltage (-U)	Dedicated 120V (-1)	Universal Voltage (-U)	
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: **TC207LDR-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: **2307BHZ-WH-SF**

Trim/Description		
		
Self Flanged	Flush Mount <sup>1</sup>	Description
<b>2307BHZ-BL-SF</b>	<b>2307BHZ-BL-FM</b>	Black Trim
<b>2307BHZ-WH-SF</b>	<b>2307BHZ-WH-FM</b>	White Trim

<sup>1</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**

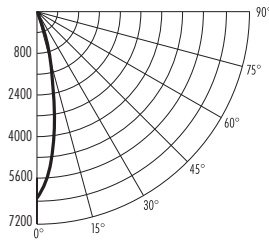
Color Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77

	<b>Construction:</b>	Type Non-IC
	<b>CCT/CRI:</b>	827, 830, 835, 840
	<b>Optic:</b>	S, N, F
	<b>Trim Finish:</b>	BHZ-BL, BHZ-WH



**PHOTOMETRIC REPORT**

Test Report #: PT02140112  
 Catalog No: IC/TC210LDR-830-S-1  
 with 2307BHZ trim  
 Luminaire Spacing Criterion: 0.32  
 Luminaire LPW: 54



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	6325
5	5326
15	1067
25	108
35	9
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'	57	53	50
5.0'	37	34	32
6.0'	25	24	22
7.0'	21	19	18
8.0'	16	15	14
9.0'	12	12	11
10.0'	9	8	8

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 18.4° Beam)

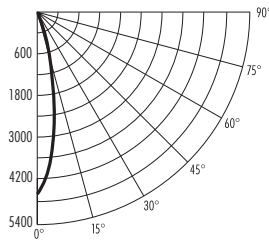
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	175.7	1.9'
8	98.8	2.6'
10	63.3	3.2'
12	43.9	3.9'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	124
55	38
65	52
75	0
85	0

**PHOTOMETRIC REPORT**

Test Report #: PT02140108  
 Catalog No: IC/TC210LDR-830-N-1  
 with 2307BHZ trim  
 Luminaire Spacing Criterion: 0.36  
 Luminaire LPW: 49



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	4687
5	3924
15	1126
25	161
35	15
45	2
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'	52	48	45
5.0'	33	31	29
6.0'	23	21	20
7.0'	19	17	16
8.0'	15	14	13
9.0'	11	11	10
10.0'	8	8	7

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 20.3° Beam)

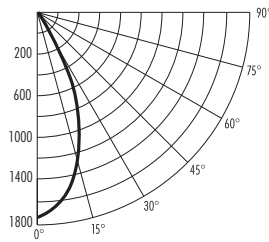
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	130.2	2.1'
8	73.2	2.9'
10	46.9	3.6'
12	32.5	4.3'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	682
55	267
65	259
75	254
85	251

**PHOTOMETRIC REPORT**

Test Report #: PT02140104  
 Catalog No: IC/TC210LDR-830-F-1  
 with 2307BHZ trim  
 Luminaire Spacing Criterion: 0.68  
 Luminaire LPW: 50



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1770
5	1751
15	1307
25	396
35	43
45	3
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'	52	47	43
5.0'	33	30	27
6.0'	23	21	19
7.0'	19	17	15
8.0'	15	13	12
9.0'	11	10	9
10.0'	8	8	7

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 39.8° Beam)

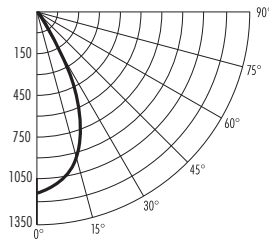
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	49.2	4.3'
8	27.7	5.8'
10	17.7	7.2'
12	12.3	8.7'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	806
55	267
65	207
75	169
85	0

**PHOTOMETRIC REPORT**

Test Report #: PT02140116  
 Catalog No: IC/TC210LDR-830-W-1  
 with 2307BHZ trim  
 Luminaire Spacing Criterion: 0.74  
 Luminaire LPW: 38



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1174
5	1137
15	942
25	308
35	73
45	2
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'	40	36	33
5.0'	26	23	21
6.0'	18	16	14
7.0'	14	13	12
8.0'	11	10	9
9.0'	9	8	7
10.0'	6	6	5

**INITIAL FOOTCANDLES**

(One Unit, 15.1W, 42.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	32.6	4.7'
8	18.3	6.3'
10	11.7	7.8'
12	8.2	9.4'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	682
55	458
65	415
75	423
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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