



## 2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

1-1/4" PINHOLE

REMODEL

**TC207LDR, TC210LDR  
TC207LAR, TC210LAR  
with 2337 Trim**

### PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 1-1/4" pinhole aperture delivers up to 618 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** Die cast trim in white or black with black oculus • Black shield eliminates visibility into housing.

**Trims Style** Self Flanged and Flush Mount styles are available  
• 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 • Union made.

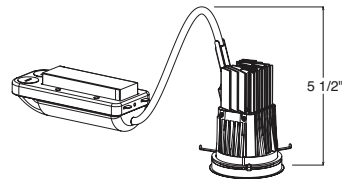
**Remodel Installation** Fixture installs from below the ceiling and secured to remodel ring.

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

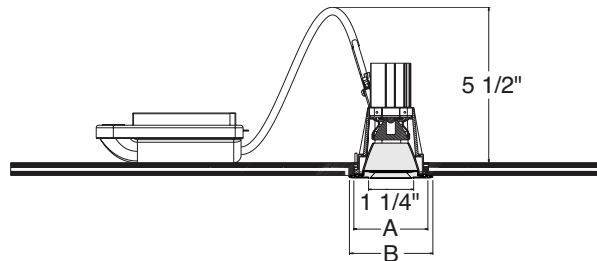
**Ceiling Thickness** 1/2" – 1 1/2" ceiling standard.

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)		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

# 2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

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REMODEL



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TC207LAR, TC210LAR  
with 2337 Trim**

**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: **2337BHZ-WH-SF**

Trim/Description		
		
Self Flanged	Flush Mount <sup>1</sup>	Description
<b>2337BHZ-BL-SF</b>	<b>2337BHZ-BL-FM</b>	Black Trim
<b>2337BHZ-WH-SF</b>	<b>2337BHZ-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

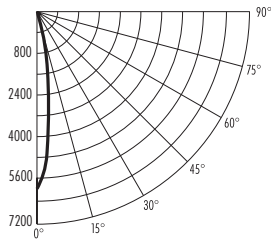
**LUMEN OUTPUT MULTIPLIERS**

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



**PHOTOMETRIC REPORT**

Test Report #: PT10142003R  
 Catalog No: IC/TC210LDR-830-S-1  
 with 2337BHZ trim  
 Luminaire Spacing Criterion: 0.28  
 Luminaire LPW: 42



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	6073
5	4724
15	711
25	53
35	6
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'	44	41	39
5.0'	28	26	25
6.0'	20	18	17
7.0'	16	15	14
8.0'	13	12	11
9.0'	10	9	8
10.0'	7	7	6

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 16.3° Beam)

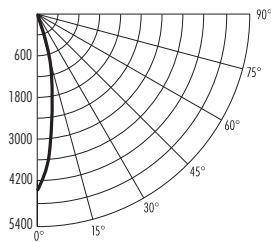
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	177.8	1.7'
8	100.0	2.3'
10	64.0	2.9'
12	44.4	3.4'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	829
55	511
65	347
75	566
85	0

**PHOTOMETRIC REPORT**

Test Report #: PT10142005R  
 Catalog No: IC/TC210LDR-830-N-1  
 with 2337BHZ trim  
 Luminaire Spacing Criterion: 0.32  
 Luminaire LPW: 39



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	4445
5	3510
15	790
25	72
35	10
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'	41	38	36
5.0'	26	24	23
6.0'	18	17	16
7.0'	15	14	13
8.0'	12	11	10
9.0'	9	8	8
10.0'	7	6	6

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 18.3° Beam)

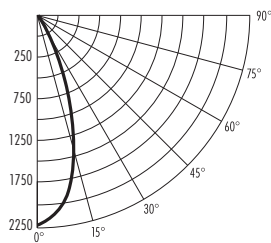
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	123.5	1.9'
8	69.5	2.6'
10	44.5	3.2'
12	30.9	3.9'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	829
55	511
65	347
75	566
85	0

**PHOTOMETRIC REPORT**

Test Report #: PT10142007R  
 Catalog No: IC/TC210LDR-830-W-1  
 with 2337BHZ trim  
 Luminaire Spacing Criterion: 0.58  
 Luminaire LPW: 50



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	2249
5	2175
15	1407
25	283
35	22
45	1
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'	52	47	43
5.0'	33	30	28
6.0'	23	21	19
7.0'	19	17	16
8.0'	15	13	12
9.0'	11	10	9
10.0'	8	8	7

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 34.6° Beam)

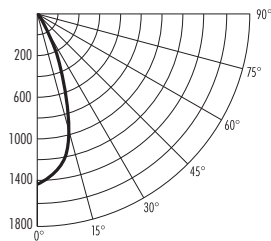
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	62.5	3.7'
8	35.1	5.0'
10	22.5	6.2'
12	15.6	7.5'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	1036
55	766
65	693
75	566
85	0

**PHOTOMETRIC REPORT**

Test Report #: PT10142009R  
 Catalog No: IC/TC210LDR-830-W-1  
 with 2337BHZ trim  
 Luminaire Spacing Criterion: 0.60  
 Luminaire LPW: 34



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1411
5	1344
15	924
25	219
35	43
45	1
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'	35	32	29
5.0'	23	21	19
6.0'	16	14	13
7.0'	13	12	11
8.0'	10	9	8
9.0'	8	7	6
10.0'	6	5	5

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 34.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	39.2	3.8'
8	22.0	5.0'
10	14.1	6.3'
12	9.8	7.5'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	1452
55	1022
65	693
75	566
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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