



2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

1-3/8" LENSED REGRESSED PINHOLE

REMODEL

**TC207LDR, TC210LDR
TC207LAR, TC210LAR
with 2302 Trim**

PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 1-3/8" lensed regressed pinhole 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 Black reflector with diffuse lens 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 wet 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.

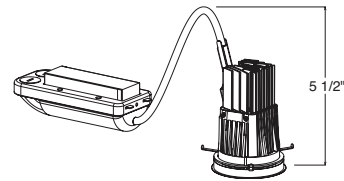
Wiring Includes (2) 1/2" knockouts equipped with pryout slots and are compatible with flexible electrical supply only • Supplied with quick connect electrical connectors.

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

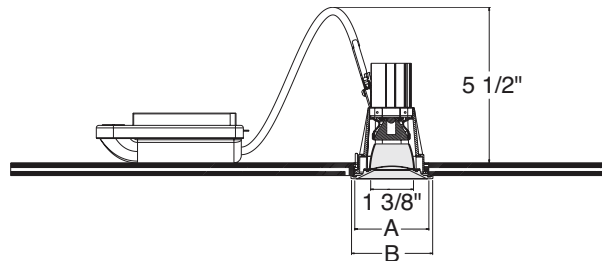


Type	Cat. No.
_____	_____
Project: _____	
Notes: _____	

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

Example: **2302BHZ-WH-SF**

Trim/Description		
		
Self Flanged	Flush Mount ¹	Description
2302BHZ-BL-SF	2302BHZ-BL-FM	Black Trim
2302BHZ-WH-SF	2302BHZ-WH-FM	White Trim

¹Flush Mount trims must be used with Flush Mount Adapter in drywall ceilings, ordered separately.


Product specifications subject to change without notice.

Accessories

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

LUMEN OUTPUT MULTIPLIERS

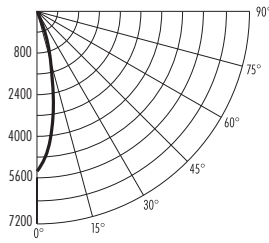
Color Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77

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



PHOTOMETRIC REPORT

Test Report #: PT02140111
 Catalog No: IC/TC21OLDR-830-S-1
 with 2302BHZ trim
 Luminaire Spacing Criterion: 0.32
 Luminaire LPW: 48



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5483
5	4554
15	983
25	108
35	11
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'	51	47	45
5.0'	33	30	29
6.0'	23	21	20
7.0'	18	17	16
8.0'	15	13	13
9.0'	11	10	10
10.0'	8	8	7

INITIAL FOOTCANDLES

(One Unit, 15.1W, 18.6° Beam)

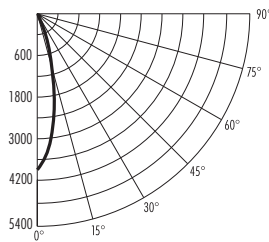
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	152.3	2.0'
8	85.7	2.6'
10	54.8	3.3'
12	38.1	3.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	682
55	420
65	415
75	423
85	0

PHOTOMETRIC REPORT

Test Report #: PT02140107
 Catalog No: IC/TC21OLDR-830-N-1
 with 2302BHZ trim
 Luminaire Spacing Criterion: 0.36
 Luminaire LPW: 45



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4059
5	3422
15	1038
25	156
35	17
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'	47	44	41
5.0'	30	28	26
6.0'	21	19	18
7.0'	17	16	15
8.0'	13	12	12
9.0'	10	10	9
10.0'	8	8	7

INITIAL FOOTCANDLES

(One Unit, 15.1W, 20.8° Beam)

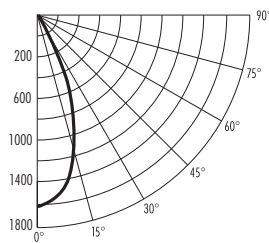
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	112.8	2.2'
8	63.4	2.9'
10	40.6	3.7'
12	28.2	4.4'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	867
55	420
65	415
75	423
85	251

PHOTOMETRIC REPORT

Test Report #: PT02140103
 Catalog No: IC/TC21OLDR-830-F-1
 with 2302BHZ trim
 Luminaire Spacing Criterion: 0.66
 Luminaire LPW: 45



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1604
5	1574
15	1167
25	382
35	47
45	4
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'	48	43	39
5.0'	31	28	25
6.0'	21	19	17
7.0'	17	15	14
8.0'	14	12	11
9.0'	10	9	9
10.0'	8	7	6

INITIAL FOOTCANDLES

(One Unit, 15.1W, 39.5° Beam)

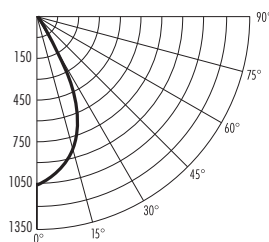
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	44.6	4.3'
8	25.1	5.7'
10	16.0	7.2'
12	11.1	8.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1270
55	420
65	363
75	254
85	0

PHOTOMETRIC REPORT

Test Report #: PT02140115
 Catalog No: IC/TC21OLDR-830-W-1
 with 2302BHZ trim
 Luminaire Spacing Criterion: 0.72
 Luminaire LPW: 35



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1051
5	1023
15	839
25	304
35	69
45	6
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'	37	33	30
5.0'	24	21	19
6.0'	16	15	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, 15.1W, 42.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	29.2	4.7'
8	16.4	6.3'
10	10.5	7.8'
12	.3	9.4'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1921
55	611
65	570
75	508
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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