



## 2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

1-3/8" SQUARE LENSED REGRESSED PINHOLE

**REMODEL**

**TC207LSQDR, TC210SQDR,  
TC207SQAR, TC210SQAR  
with 2302SQ Trim**



### PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 1-3/8" lensed regressed pinhole square aperture delivers up to 770 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 diffuse lens and black shield that prevent visibility into housing.

**Trims Style** Self Flanged and Flush Mount styles are available  
• For flush mount installations in drywall ceilings, specify the FMASQ2R 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 all color temperatures with 80 CRI and spot, narrow flood, and flood optics • Union made.

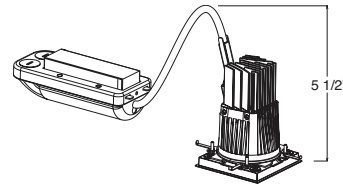
**Remodel Installation** Fixture installs from below the ceiling and secured to remodel ring.

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

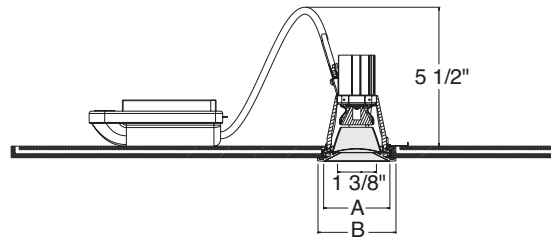
**Ceiling Thickness** 1/2" – 1 1/2" ceiling standard.

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

### DIMENSIONS



**TC207LSQDR, TC210LSQDR  
TC207LSQAR, TC210LSQAR**



Trim Style	Cutout Size (A)	Flange Dimension (B)
Self Flanged Trims	3.044" x 3.044"	3.410"
Flush Mount Trims (Drywall Ceiling)	3.044" x 3.044"	2.875"

### 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

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REMODEL

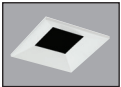

**TC207LSQDR, TC210SQDR,  
TC207SQAR, TC210SQAR  
with 2302SQ Trim**

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

Example: **TC207LSQAR-830-N-1**

Series	CRI/CCT	Optic	Driver
<b>TC207LSQDR</b> 700 lm Downlight, Non-IC	<b>827</b> 80 CRI, 2700K	<b>S</b> 18° Spot <b>N</b> 24° Narrow Flood	<b>I</b> 120V, Phase Dimming
<b>TC210LSQDR</b> 1000 lm Downlight, Non-IC	<b>830</b> 80 CRI, 3000K	<b>F</b> 35° Flood	<b>U</b> 120-277V, 0-10V Dimming
<b>TC207LSQAR</b> 700 lm Adjustable, Non-IC	<b>835</b> 80 CRI, 3500K	<b>W</b> 45° Wide Flood	
<b>TC210LSQAR</b> 1000 lm Adjustable, Non-IC	<b>840</b> 80 CRI, 4000K <b>927</b> 90 CRI, 2700K <b>930</b> 90 CRI, 3000K		

Example: **2302SQBHZ-WH-SF**

Trim/Description		
		
<b>Self Flanged</b>	<b>Flush Mount<sup>1</sup></b>	<b>Description</b>
<b>2302SQBHZ-BL-SF</b>	<b>2302SQBHZ-BL-FM</b>	Black Trim
<b>2302SQBHZ-WH-SF</b>	<b>2302SQBHZ-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>FMASQ2R</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**

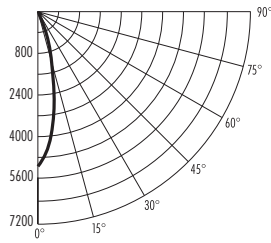
Color Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77

	<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 #: PTO2141006  
 Catalog No: IC/TC210LSQDR-830-S-1  
 with 2302SQBHZ trim  
 Luminaire Spacing Criterion: 0.34  
 Luminaire LPW: 52



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	5079
5	4278
15	1060
25	140
35	14
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'	54	50	47
5.0'	35	32	30
6.0'	24	22	21
7.0'	19	18	17
8.0'	15	14	13
9.0'	12	11	10
10.0'	9	8	7

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 19.6° Beam)

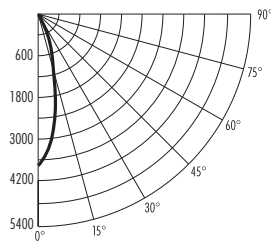
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	141.1	2.1'
8	79.4	2.8'
10	50.8	3.5'
12	35.3	4.1'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	3394
55	1704
65	1262
75	1717
85	1020

**PHOTOMETRIC REPORT**

Test Report #: PTO2141010  
 Catalog No: IC/TC210LSQDR-830-W-1  
 with 2302SQBHZ trim  
 Luminaire Spacing Criterion: 0.38  
 Luminaire LPW: 47



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	3739
5	3223
15	1061
25	177
35	20
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'	49	45	42
5.0'	31	29	27
6.0'	22	20	19
7.0'	18	16	15
8.0'	14	13	12
9.0'	11	10	9
10.0'	8	7	7

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 21.9° Beam)

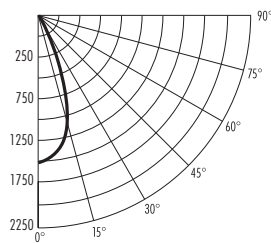
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	103.9	2.3'
8	58.4	3.1'
10	37.4	3.9'
12	26.0	4.6'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	4148
55	1859
65	1682
75	2060
85	0

**PHOTOMETRIC REPORT**

Test Report #: PTO2141102  
 Catalog No: IC/TC210LSQDR-830-F-1  
 with 2302SQBHZ trim  
 Luminaire Spacing Criterion: 0.66  
 Luminaire LPW: 45



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1516
5	1487
15	1104
25	367
35	48
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'	47	42	38
5.0'	30	27	25
6.0'	21	19	17
7.0'	17	15	14
8.0'	13	12	11
9.0'	10	9	8
10.0'	7	7	6

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 39.6° Beam)

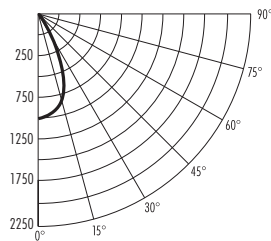
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	42.1	4.3'
8	23.7	5.8'
10	15.2	7.2'
12	10.5	8.6'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	5279
55	1859
65	1472
75	1374
85	0

**PHOTOMETRIC REPORT**

Test Report #: PTO2141106  
 Catalog No: IC/TC210LSQDR-830-W-1  
 with 2302SQBHZ trim  
 Luminaire Spacing Criterion: 0.72  
 Luminaire LPW: 36



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1000
5	978
15	808
25	298
35	66
45	5
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'	17	15	13
7.0'	13	12	11
8.0'	11	10	9
9.0'	8	7	7
10.0'	6	5	5

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 42.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	27.8	4.7'
8	15.6	6.3'
10	10.0	7.8'
12	6.9	9.4'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	6787
55	2324
65	2103
75	2060
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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