



## 2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

1-3/8" SQUARE REGRESSED PINHOLE

REMODEL

**TC207LSQDR, TC210SQDR,  
TC207SQAR, TC210SQAR  
with 23075Q Trim**



### PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 1-3/8" regressed pinhole square aperture delivers up to 850 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 shield that prevents 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 damp locations • ENERGY STAR® Qualified with all color temperatures with 80 CRI and spot, narrow flood, and flood optics • Union made.

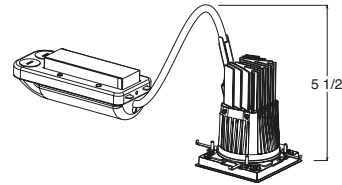
**Remodel Installation** Fixture installs from below the ceiling and secured to remodel ring.

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

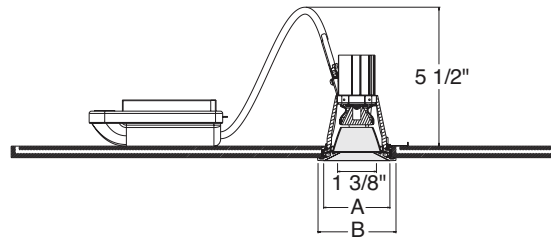
**Ceiling Thickness** 1/2" – 1 1/2" ceiling standard.

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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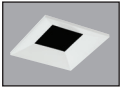

**TC207LSQDR, TC210SQDR,  
TC207SQAR, TC210SQAR  
with 2307SQ Trim**

**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: **2307SQBHZ-WH-SF**

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

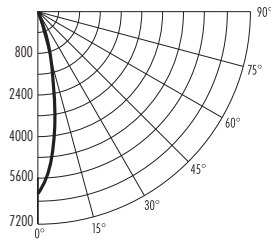
Color Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77

	<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 #: PTO2141005  
 Catalog No: IC/TC210LSQDR-830-S-1  
 with 2307SQHZ trim  
 Luminaire Spacing Criterion: 0.34  
 Luminaire LPW: 57



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	6083
5	5167
15	1127
25	124
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'	60	56	53
5.0'	39	36	34
6.0'	27	25	23
7.0'	22	20	19
8.0'	17	16	15
9.0'	13	12	11
10.0'	10	9	8

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 19.1° Beam)

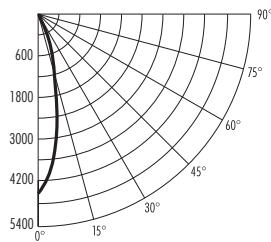
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	168.9	2.0'
8	95.0	2.7'
10	60.8	3.4'
12	42.2	4.0'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	1131
55	465
65	0
75	687
85	0

**PHOTOMETRIC REPORT**

Test Report #: PTO2141009  
 Catalog No: IC/TC210LSQDR-830-W-1  
 with 2307SQHZ trim  
 Luminaire Spacing Criterion: 0.36  
 Luminaire LPW: 52



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	4493
5	3850
15	1158
25	174
35	17
45	2
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'	55	50	47
5.0'	35	32	30
6.0'	24	22	21
7.0'	20	18	17
8.0'	16	14	13
9.0'	12	11	10
10.0'	9	8	8

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 21.2° Beam)

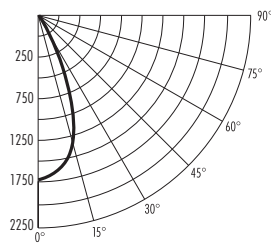
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	124.8	2.2'
8	70.2	3.0'
10	44.9	3.7'
12	31.2	4.5'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	2765
55	620
65	841
75	1717
85	0

**PHOTOMETRIC REPORT**

Test Report #: PTO2141101  
 Catalog No: IC/TC210LSQDR-830-F-1  
 with 2307SQHZ trim  
 Luminaire Spacing Criterion: 0.68  
 Luminaire LPW: 50



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1708
5	1694
15	1274
25	389
35	42
45	2
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	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, 14.8W, 40.1° Beam)

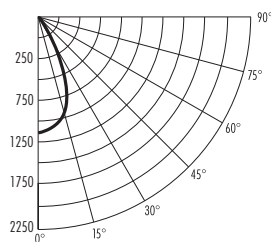
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	47.4	4.4'
8	26.7	5.8'
10	17.1	7.3'
12	11.9	8.8'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	2262
55	620
65	841
75	687
85	0

**PHOTOMETRIC REPORT**

Test Report #: PTO2141105  
 Catalog No: IC/TC210LSQDR-830-W-1  
 with 2307SQHZ trim  
 Luminaire Spacing Criterion: 0.74  
 Luminaire LPW: 41



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1149
5	1118
15	932
25	313
35	73
45	2
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'	42	38	34
5.0'	27	24	22
6.0'	19	17	15
7.0'	15	14	12
8.0'	12	11	10
9.0'	9	8	7
10.0'	7	6	5

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 43° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	31.9	4.7'
8	17.9	6.3'
10	11.5	7.9'
12	8.0	9.5'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	1885
55	1085
65	1472
75	2060
85	1020



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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