



2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

SQUARE DOWNLIGHT

REMODEL

**TC207LSQDR, TC210SQDR,
TC207SQAR, TC210SQAR
with 2007SQ Trim**



PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 1 3/4" square aperture delivers up to 900 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 reflector in haze, black haze, wheat haze, or white finish provides 50° cut-off • Black shield prevents visibility into housing.

Trims Style Self Flanged and Flush Mount styles are available • Flange is same finish as trim unless optional painted white flange is specified • 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 • Union made.

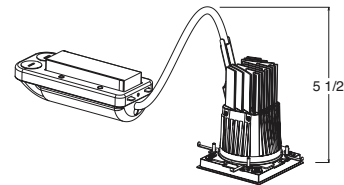
Remodel Installation Fixture installs from below the ceiling and secured to remodel ring.

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

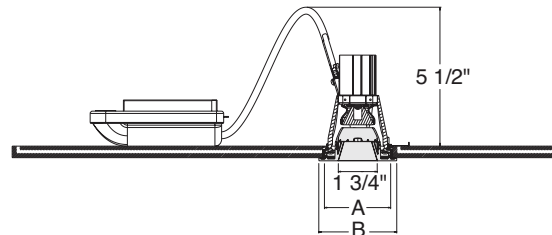
Ceiling Thickness 1/2" – 1 1/2" ceiling standard.

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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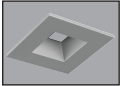
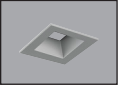
Ordering Information

Housing, trim and accessories each ordered separately

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

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

Example: **2007SQW-SF**

Trim/Description		
		
Self Flanged ¹	Flush Mount ²	Description
2007SQBHZ-SF	2007SQBHZ-FM	Black Haze Reflector
2007SQHZ-SF	2007SQHZ-FM	Haze Reflector
2007SQW-SF	2007SQW-FM	White Reflector
2007SQWHZ-SF	2007SQWHZ-FM	Wheat Haze Reflector

¹For self flanged reflector with optional white painted flange, replace "SF" suffix with "SFWH".

²Flush Mount trims must be used with Flush Mount Adapter in drywall ceilings, ordered separately.


Product specifications subject to change without notice.

Accessories

Cat. #	Description
FMASQ2R	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

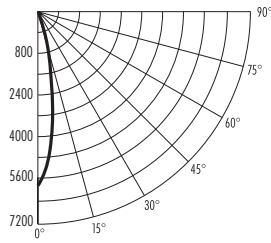
Color Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77

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



PHOTOMETRIC REPORT

Test Report #: PTO2141003
 Catalog No: IC/TC210LSQDR-830-S-1
 with 2007SQHZ trim
 Luminaire Spacing Criterion: 0.3
 Luminaire LPW: 69



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5882
5	5041
15	1211
25	134
35	8
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'	61	57	53
5.0'	39	36	34
6.0'	27	25	24
7.0'	22	20	19
8.0'	17	16	15
9.0'	13	12	12
10.0'	10	9	9

INITIAL FOOTCANDLES

(One Unit, 14.8W, 18.0° Beam)

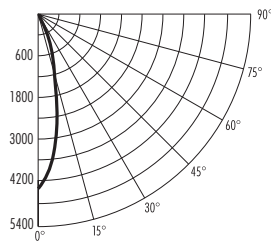
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	163.4	2.1'
8	91.9	2.8'
10	58.8	3.5'
12	40.8	4.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	676
55	667
65	113
75	554
85	0

PHOTOMETRIC REPORT

Test Report #: PTO2141007
 Catalog No: IC/TC210LSQDR-830-W-1
 with 2007SQHZ trim
 Luminaire Spacing Criterion: 0.4
 Luminaire LPW: 53



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4305
5	3678
15	1243
25	184
35	15
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	51	47
5.0'	35	32	30
6.0'	24	23	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, 21.9° Beam)

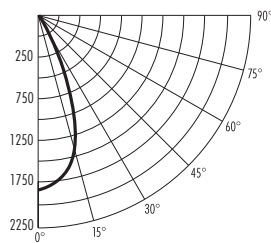
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	119.6	2.3'
8	67.3	3.1'
10	43.1	3.9'
12	29.9	4.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1014
55	667
65	452
75	185
85	548

PHOTOMETRIC REPORT

Test Report #: PTO2141011
 Catalog No: IC/TC210LSQDR-830-F-1
 with 2007SQHZ trim
 Luminaire Spacing Criterion: 0.7
 Luminaire LPW: 53



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1810
5	1796
15	1323
25	409
35	37
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'	55	49	45
5.0'	35	31	29
6.0'	24	22	20
7.0'	20	18	16
8.0'	16	14	13
9.0'	12	11	10
10.0'	9	8	7

INITIAL FOOTCANDLES

(One Unit, 14.8W, 39.9° Beam)

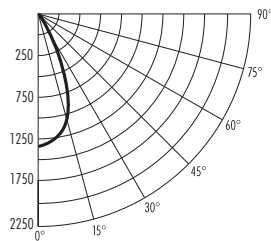
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	50.3	4.4'
8	28.3	5.8'
10	18.1	7.3'
12	12.6	8.7'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1217
55	833
65	452
75	185
85	548

PHOTOMETRIC REPORT

Test Report #: PTO2141103
 Catalog No: IC/TC210LSQDR-830-W-1
 with 2007SQHZ trim
 Luminaire Spacing Criterion: 0.8
 Luminaire LPW: 45



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1301
5	1279
15	1014
25	331
35	63
45	3
55	2
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'	46	41	38
5.0'	30	26	24
6.0'	21	18	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, 44.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	36.1	4.7'
8	20.3	6.3'
10	13.0	7.8'
12	9.0	9.4'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2163
55	1583
65	905
75	554
85	548



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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