



2" LED RECESSED AJUSTABLE 700 & 1000 LUMEN

SQUARE SCOOP TRIM

REMODEL

TC207LSQAR, TC210LSQAR
with 2228SQ Trim



PRODUCT DESCRIPTION

Recessed LED adjustable luminaire with 2" scoop trim delivers up to 802 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.

Adjustability Patent pending Acu-Aim™ precision geared hot-aiming achieves 365° rotation, 40° tilt with any ceiling thickness from 1/2" to 1" • Acu-Aim™ translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Reflector Die cast trim in white or black with 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 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.

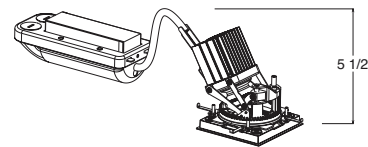
Remodel Installation Fixture installs from below the ceiling and secured to remodel ring.

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

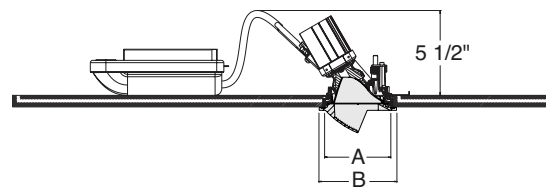
Ceiling Thickness 1/2" – 1 1/2" ceiling standard.

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

DIMENSIONS



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

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

Example: **2228SQBHZ-WH-SF**

Trim/Description		
		
Self Flanged	Flush Mount¹	Description
2228SQBHZ-BL-SF	2228SQBHZ-BL-FM	Black Trim
2228SQBHZ-WH-SF	2228SQBHZ-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
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

2" LED RECESSED ADJUSTABLE 700 & 1000 LUMEN

SQUARE SCOOP TRIM

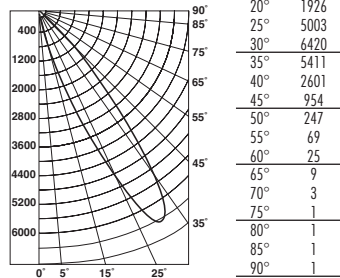
REMODEL

TC207LSQAR, TC210LSQAR with 2228SQ Trim

SPOT PHOTOMETRIC REPORT

Test Report: PT10140909R
Catalog No: IC/TC210LSQAR-830-S-1
(Aim at 30°)
with 2228SQBHZ trim

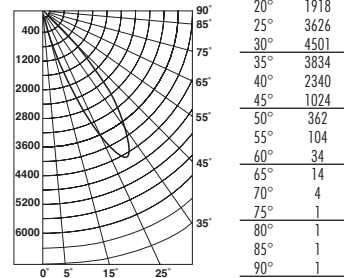
Watts: 14.8
Lumens: 798
Luminaire LPW: 54



NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PT10140910R
Catalog No: IC/TC210LSQAR-830-N-1
(Aim at 30°)
with 2228SQBHZ trim

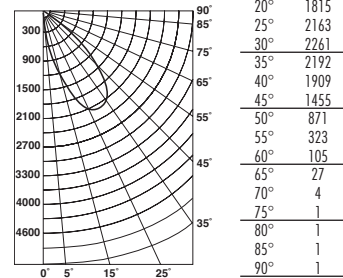
Watts: 14.8
Lumens: 742
Luminaire LPW: 50



FLOOD PHOTOMETRIC REPORT

Test Report: PT10141001R
Catalog No: IC/TC210LSQAR-830-F-1
(Aim at 30°)
with 2228SQBHZ trim

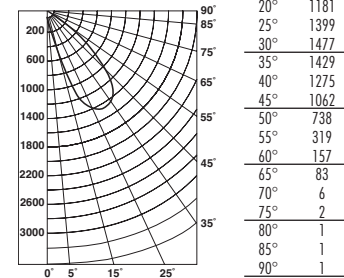
Watts: 14.8
Lumens: 802
Luminaire LPW: 54



WIDE FLOOD PHOTOMETRIC REPORT

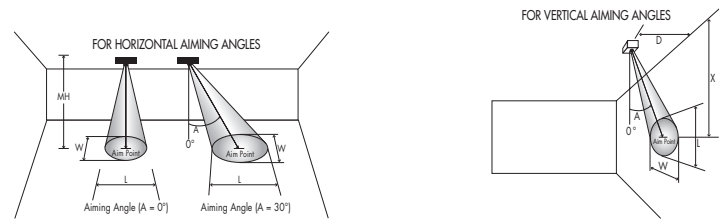
Test Report: PT10141002R
Catalog No: IC/TC210LSQAR-830-W-1
(Aim at 30°)
with 2228SQBHZ trim

Watts: 14.8
Lumens: 655
Luminaire LPW: 44



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



CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Beam Type	Beam Spread	CBCP	0°				30°			30°				40°				
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SPT	18°	6421	4	401	1.2	1.2	261	1.6	1.4	2	201	3.5	2.6	1.2	426	2.4	1.5	0.9
			6	178	1.8	1.8	116	2.4	2.1	3	89	5.2	3.9	1.8	189	3.6	2.3	1.4
			8	100	2.4	2.4	65	3.3	2.8	4	50	6.9	5.2	2.4	107	4.8	3.0	1.9
			10	64	3.0	3.0	42	4.1	3.5	5	32	8.7	6.5	3.0	68	6.0	3.8	2.4
			12	45	3.6	3.6	29	4.9	4.2	6	22	10.4	7.8	3.6	47	7.2	4.5	2.8
NFL	24°	4501	4	281	1.4	1.4	183	1.9	1.6	2	141	3.5	3.1	1.4	299	2.4	1.8	1.1
			6	125	2.1	2.1	81	2.8	2.4	3	63	5.2	4.6	2.1	133	3.6	2.6	1.6
			8	70	2.8	2.8	46	3.8	3.2	4	35	6.9	6.1	2.8	75	4.8	3.5	2.2
			10	45	3.5	3.5	29	4.7	4.0	5	23	8.7	7.7	3.5	48	6.0	4.4	2.7
FL	35°	2261	4	141	2.4	2.4	92	3.3	2.8	2	71	3.5	6.6	2.4	150	2.4	3.3	1.9
			6	63	3.6	3.6	41	4.9	4.2	3	31	5.2	9.9	3.6	67	3.6	5.0	2.8
			8	35	4.8	4.8	23	6.6	5.5	4	18	6.9	13.2	4.8	38	4.8	6.7	3.7
			10	23	6.0	6.0	15	8.2	6.9	5	11	8.7	16.4	6.0	24	6.0	8.3	4.7
WFL	45°	1477	4	92	2.4	2.4	60	3.4	2.8	2	46	3.5	6.8	2.4	98	2.4	3.4	1.9
			6	41	3.9	3.9	27	5.0	4.2	3	21	5.2	10.1	3.7	44	3.6	5.1	2.8
			8	23	4.9	4.9	15	6.7	5.6	4	12	6.9	13.5	4.9	25	4.8	6.8	3.8
			10	15	6.1	6.1	10	8.4	7.0	5	7	8.7	16.9	6.1	16	6.0	8.5	4.7
WFL	45°	1477	12	10	7.3	7.3	7	10.1	8.4	6	5	10.4	20.3	7.3	11	7.2	10.2	5.7

