



PRODUCT DESCRIPTION

Recessed LED adjustable luminaire with 1-1/4" pinhole square aperture delivers up to 818 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 housing is available in IC rated or non-IC rated configurations.

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 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 oculus • 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 FMA5Q2 adapter • For flush mount installations in solid ceiling materials such as wood, stone, or tile ceilings, no flush mount adapter is required.

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 [ACULLED2-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 • IC rated new construction fixture meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Qualified with all color temperatures with 80 CRI and spot, narrow flood, and flood optics • IC rated new construction luminaire is Chicago Plenum (CCEA) approved • Union made.

New Construction Mounting Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • IC rated new construction luminaire also features vertically adjustable mounting brackets (butterfly brackets) • V-Notch in plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation aids fixture alignment after installation, prior to drywall.

Wiring IC housing includes (2) 1/2" knockouts in access plate, and is compatible with rigid conduit and flexible supply • Non-IC housings include (2) 1/2" knockouts with pryout slots in junction box and are compatible with flexible electrical supply only • All housings supplied with quick connect electrical connectors.

Ceiling Thickness 1/2" – 3/4" ceiling standard • For thicker ceilings, order CTASQ2-120 (.75"-1.20") or CTASQ2-150 (1.20"-1.50") • Vertical aiming in ceiling 1" to 1 1/2" is reduced from 40° to 25°.

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

2" LED RECESSED ADJUSTABLE 700 & 1000 LUMEN

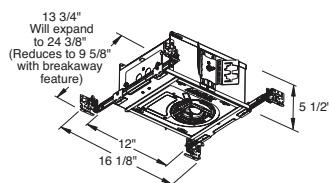
SQUARE 1-1/4" PINHOLE
NEW CONSTRUCTION

IC/TC207LSQA, IC/TC210LSQA
with 2338SQ Trim

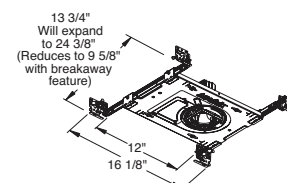


Type	Cat. No.
Project: _____	
Notes: _____	

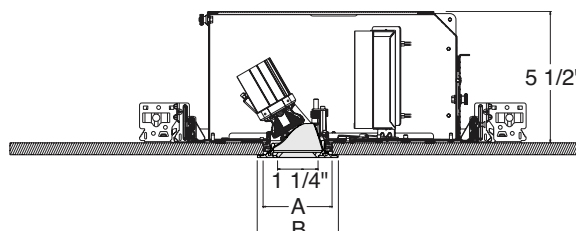
DIMENSIONS



IC207LSQA,
IC210LSQA



TC207LSQA,
TC210LSQA



Trim Style	Cutout Size (A)	Flange Dimension (B)
Self Flanged Trims	2-7/8" x 2-7/8"	3.410"
Flush Mount Trims (Solid Ceiling)	2-7/8" x 2-7/8"	2.875"
Flush Mount Trims (Drywall Ceiling)	3" x 3"	2.875"

2" LED RECESSED ADJUSTABLE 700 & 1000 LUMEN

SQUARE 1-1/4" PINHOLE
NEW CONSTRUCTION

**IC/TC207LSQA, IC/TC210LSQA
with 2338SQ Trim**

Ordering Information

Housing, trim and accessories each ordered separately

Example: **IC207LSQA-830-N-1**

Series	CRI/CCT	Optic	Driver
IC207LSQA 700 lm Adjustable, IC rated	827 80 CRI, 2700K	S 18° Spot	I 120V, Phase Dimming
TC207LSQA 700 lm Adjustable, Non-IC	830 80 CRI, 3000K	N 24° Narrow Flood	U 120-277V, 0-10V Dimming
	835 80 CRI, 3500K	F 35° Flood	
IC210LSQA 1000 lm Adjustable, IC rated	840 80 CRI, 4000K	W 45° Wide Flood	
TC210LSQA 1000 lm Adjustable, Non-IC	927 90 CRI, 2700K		
	930 90 CRI, 3000K		

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

Example: **2338SQBHZ-WH-SF**

Trim/Description		
		
Self Flanged	Flush Mount¹	Description
2338SQBHZ-BL-SF	2338SQBHZ-BL-FM	Black Trim
2338SQBHZ-WH-SF	2338SQBHZ-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
FMASQ2	New Construction Flush Mount Adapter for drywall ceilings
CTASQ2-120	Thick Ceiling Adapter for .75"-1.20" thick ceiling
CTASQ2-150	Thick Ceiling Adapter for 1.20"-1.50" thick ceiling
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 1-1/4" PINHOLE
NEW CONSTRUCTION

IC/TC207LSQA, IC/TC210LSQA
with 2338SQ Trim

SPOT

PHOTOMETRIC REPORT

Test Report: PT10140901R

Catalog No: IC/TC210LSQA-830-S-1

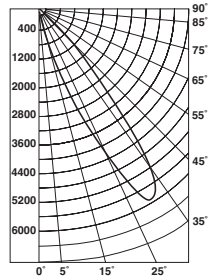
(Aim at 30°)

with 2338SQBHZ trim

Watts: 14.8

Lumens: 735

Luminaire LPW: 50



Candlepower Distribution

(Candelas)

Degrees

Vertical Candela

0° 73

5° 130

10° 323

15° 881

20° 2052

25° 4350

30° 5881

35° 5235

40° 2550

45° 806

50° 182

55° 55

60° 12

65° 3

70° 0

75° 0

80° 0

85° 0

90° 0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT10140903R

Catalog No: IC/TC210LSQA-830-N-1

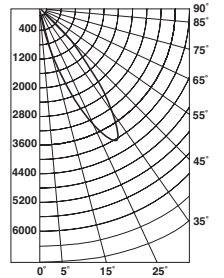
(Aim at 30°)

with 2338SQBHZ trim

Watts: 14.8

Lumens: 674

Luminaire LPW: 46



Candlepower Distribution

(Candelas)

Degrees

Vertical Candela

0° 81

5° 174

10° 435

15° 1011

20° 2035

25° 3314

30° 4019

35° 3348

40° 1948

45° 848

50° 234

55° 58

60° 19

65° 5

70° 1

75° 0

80° 0

85° 0

90° 0

FLOOD

PHOTOMETRIC REPORT

Test Report: PT10140905R

Catalog No: IC/TC210LSQA-830-F-1

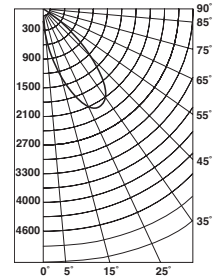
(Aim at 30°)

with 2338SQBHZ trim

Watts: 14.8

Lumens: 818

Luminaire LPW: 55



Candlepower Distribution

(Candelas)

Degrees

Vertical Candela

0° 209

5° 430

10° 819

15° 1332

20° 1809

25° 2116

30° 2252

35° 2150

40° 1767

45° 1246

50° 654

55° 287

60° 80

65° 3

70° 0

75° 0

80° 0

85° 0

90° 0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report: PT10140907R

Catalog No: IC/TC210LSQA-830-W-1

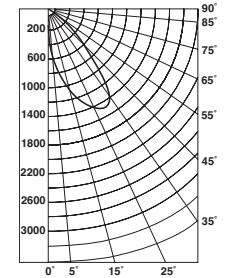
(Aim at 30°)

with 2338SQBHZ trim

Watts: 14.8

Lumens: 677

Luminaire LPW: 46



Candlepower Distribution

(Candelas)

Degrees

Vertical Candela

0° 363

5° 590

10° 850

15° 1092

20° 1280

25° 1419

30° 1481

35° 1392

40° 1073

45° 600

50° 293

55° 230

60° 20

65° 2

70° 0

75° 0

80° 0

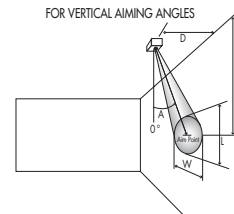
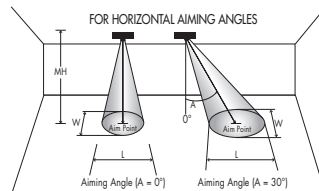
85° 0

90° 0

LUMEN OUTPUT MULTIPLIERS

Color

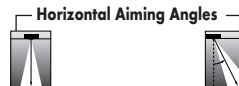
Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77



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° 	5881	4	368	1.2	1.2	239	1.7	1.4	2	184	3.5	2.7	1.2	390	2.4	1.6	1.0
			6	163	1.9	1.9	106	2.5	2.1	3	82	5.2	4.0	1.9	174	3.6	2.3	1.4
			8	92	2.5	2.5	60	3.3	2.9	4	46	6.9	5.3	2.5	98	4.8	3.1	1.9
			10	59	3.1	3.1	38	4.2	3.6	5	29	8.7	8.7	3.1	62	6.0	3.9	2.4
			12	41	3.7	3.7	27	5.0	4.3	6	20	10.4	8.0	3.7	43	7.2	4.7	2.9
NFL	24° 	4019	4	251	1.4	1.4	163	1.9	1.7	2	126	3.5	3.2	1.4	267	2.4	1.8	1.1
			6	112	2.2	2.2	73	2.9	2.5	3	56	5.2	4.8	2.2	119	3.6	2.7	1.7
			8	63	2.9	2.9	41	3.9	3.3	4	31	6.9	6.4	2.9	67	4.8	3.7	2.2
			10	40	3.6	3.6	26	4.9	4.2	5	20	8.7	8.0	3.6	43	6.0	4.6	2.8
			12	28	4.3	4.3	18	5.8	5.0	6	14	10.4	9.6	4.3	30	7.2	5.5	3.4
FL	35° 	2252	4	141	2.4	2.4	91	3.2	2.7	2	70	3.5	6.4	2.4	150	2.4	3.3	1.8
			6	63	3.5	3.5	41	4.9	4.1	3	31	5.2	9.6	3.5	66	3.6	4.9	2.8
			8	35	4.7	4.7	23	6.5	5.5	4	18	6.9	12.8	4.7	37	4.8	6.5	3.7
			10	23	5.9	5.9	15	8.1	6.8	5	11	8.7	16.0	5.9	24	6.0	8.2	4.6
			12	16	7.1	7.1	10	9.7	8.2	6	8	10.4	19.2	7.1	17	7.2	9.8	5.5
WFL	45° 	1481	4	93	2.6	2.6	60	3.6	3.0	2	46	3.5	7.6	2.6	98	2.4	3.7	2.0
			6	41	3.9	3.9	27	5.4	4.5	3	21	5.2	11.4	3.9	44	3.6	5.6	3.0
			8	23	5.2	5.2	15	7.2	6.0	4	12	6.9	15.2	5.2	25	4.8	7.4	4.0
			10	15	6.5	6.5	10	9.0	7.5	5	7	8.7	19.0	6.5	16	6.0	9.3	5.1
			12	10	7.8	7.8	7	10.8	9.0	6	5	10.4	22.8	7.8	11	7.2	11.1	6.1



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