



2" LED RECESSED MULTIPLE 700 & 1000 LUMEN SQUARE 1-1/4" PINHOLE 1, 2, & 3 Head LED Units with 2338SQ Trim Series



PRODUCT DESCRIPTION

Recessed LED multi-lamp luminaire with 1-1/4" pinhole square aperture delivers up to 818 lumens per head and is available with optical distributions approximating that of MR16 halogen lamps. Fixture has deep source regression for low aperture brightness. Low profile housing is available in IC rated or non-IC rated configurations, depending on lumen packages and number of heads.

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 shield that eliminates visibility into housing.

Trims Style Self Flanged and Flush Mount styles are available • For flush mount installations in drywall ceilings, specify the FMASQ2 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 [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.

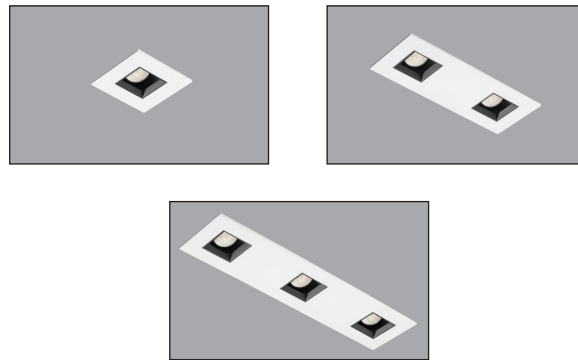
Codes/Labels UL and cUL listed for damp locations depending on trim • IC rated new construction fixture meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® with all color temperatures with 80 CRI and spot, narrow flood, and flood optics • Chicago Plenum (CCEA) is standard on single head and available as an option on 2 or 3 head units • 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 • Also features vertically adjustable mounting brackets (butterfly brackets).

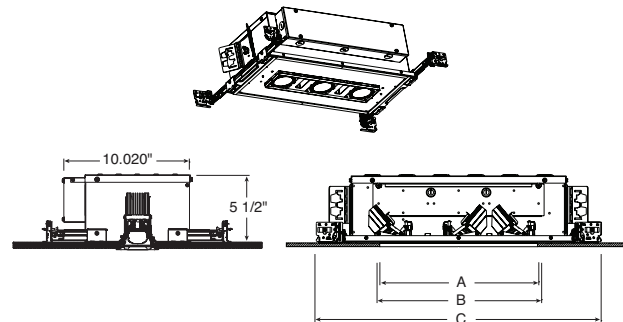
Wiring Housings includes multiple 1/2" knockouts and is compatible with rigid conduit and flexible supply • All housings supplied with quick connect electrical connectors.

Ceiling Thickness 1/2" – 1 1/2" ceiling standard • Vertical aiming in ceiling 1" to 1 1/2" is reduced from 40° to 25°.

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



DIMENSIONS



SELF FLANGED INSTALLATION			
# of Heads	Cutout Size (A)	Trim Dimension (B)	Dimension (C)
1	2-7/8" x 2-7/8"	3.410" x 3.410"	16-1/8"
2	2-7/8" x 7-7/8"	3.410" x 8.410"	18"
3	2-7/8" x 12-7/8"	3.410" x 13.410"	23"

FLUSH MOUNT INSTALLATION			
# of Heads	Cutout Size (A)	Trim Dimension (B)	Dimension (C)
1	3" x 3"	2.875" x 2.875"	16-1/8"
2	3" x 8"	2.875" x 7.875"	18"
3	3" x 13"	2.875" x 12.875"	23"

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Housing Ordering Information

Housing, trim and accessories each ordered separately


Example: **TC210LSQ3A-830-N-1**

Series	No. of Heads	CRI/CCT	Optic	Driver	Option
IC207LSQ 700 lm Adjustable, IC rated	A 1 Head 2A 2 Head	827 80 CRI, 2700K	S 18° Spot N 24° Narrow Flood	I 120V, Phase Dimming	CP³ Chicago Plenum (CCEA Approved)
IC210LSQ¹ 1000 lm Adjustable, IC rated	3A 3 Head	830 80 CRI, 3000K	F 35° Flood W 45° Wide Flood	U 120-277V, 0-10V Dimming	
TC210LSQ² 1000 lm Adjustable, Non-IC rated		835 80 CRI, 3500K 840 80 CRI, 4000K 927 90 CRI, 2700K 930 90 CRI, 3000K			

¹IC rated 1000 lumen fixture is only available in 1 head configuration.

²2 & 3 head 1000 lumen fixture is only available as Non-IC.

³1 head fixture is CP standard. Specify CP option for 2 or 3 head.

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

Trim Ordering Information

Example: **2338SQ3BHZ-WH-FM**

Series	No. of Heads	Finish	Trim Style
2338SQ Pinhole	BHZ 1 Head 2BHZ 2 Head 3BHZ 3 Head	BL Black WH White	SF Self Flange FM Flush Mount

Product specifications subject to change without notice.

Accessories

Cat. #	Description
FMASQ2	Flush Mount Adapter for drywall ceilings (1 head)
FMASQ2-2	Flush Mount Adapter for drywall ceilings (2 head)
FMASQ2-3	Flush Mount Adapter for drywall ceilings (3 head)
CTASQ2-120	Thick Ceiling Adapter for 0.75"-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



2" LED RECESSED MULTIPLE 700 & 1000 LUMEN

SQUARE 1-1/4" PINHOLE

**1, 2, & 3 Head LED Units
with 2338SQ Trim Series**

ELECTRICAL DATA

Lumen Package (per Head)	700					
	1		2		3	
Number of Heads						
Driver Option	Dedicated 120V (-1)	Universal Voltage (-U)	Dedicated 120V (-1)	Universal Voltage (-U)	Dedicated 120V (-1)	Universal Voltage (-U)
Voltage	120	120 277	120	120 277	120	120 277
Input Power	10.1	9.6 9.6	20.2	19.2 19.2	30.3	28.8 28.8
Input Current	0.09	0.08 0.04	0.18	0.16 0.08	0.27	0.24 0.12
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	0.99	0.99 0.93	0.99	0.99 0.93	0.99	0.99 0.93

ELECTRICAL DATA

Lumen Package (per Head)	1000					
	1		2		3	
Number of Heads						
Driver Option	Dedicated 120V (-1)	Universal Voltage (-U)	Dedicated 120V (-1)	Universal Voltage (-U)	Dedicated 120V (-1)	Universal Voltage (-U)
Voltage	120	120 277	120	120 277	120	120 277
Input Power	14.8	14.8 14.6	29.6	29.6 29.2	44.4	44.4 43.8
Input Current	0.12	0.12 0.06	0.24	0.24 0.12	0.36	0.36 0.18
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	0.99	0.99 0.95	0.99	0.99 0.93	0.99	0.99 0.93



2" LED RECESSED MULTIPLE 700 & 1000 LUMEN

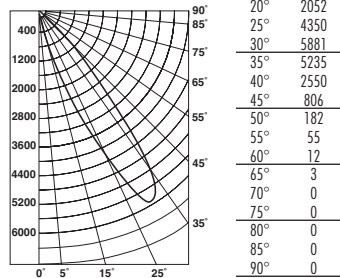
SQUARE 1-1/4" PINHOLE

1, 2, & 3 Head LED Units with 2338SQ Trim Series

SPOT PHOTOMETRIC REPORT

Test Report: PT10140901R
Catalog No: IC/TC210LSQA-830-S-1
(Aim at 30°)
with 2338SQBHZ trim

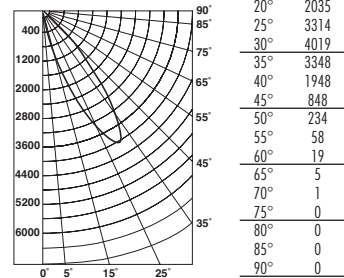
Watts: 14.8
Lumens: 735
Luminaire LPW: 50



NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PT10140903R
Catalog No: IC/TC210LSQA-830-N-1
(Aim at 30°)
with 2338SQBHZ trim

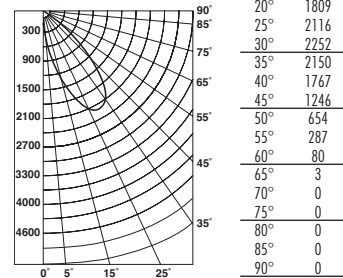
Watts: 14.8
Lumens: 674
Luminaire LPW: 46



FLOOD PHOTOMETRIC REPORT

Test Report: PT10140905R
Catalog No: IC/TC210LSQA-830-F-1
(Aim at 30°)
with 2338SQBHZ trim

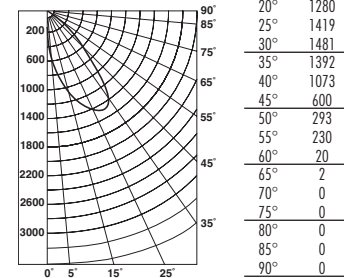
Watts: 14.8
Lumens: 818
Luminaire LPW: 55



WIDE FLOOD PHOTOMETRIC REPORT

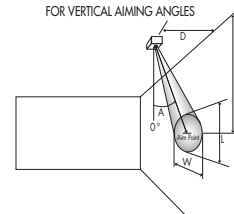
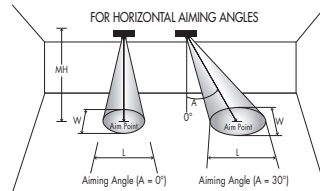
Test Report: PT10140907R
Catalog No: IC/TC210LSQA-830-W-1
(Aim at 30°)
with 2338SQBHZ trim

Watts: 14.8
Lumens: 677
Luminaire LPW: 46



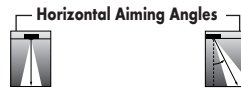
LUMEN OUTPUT MULTIPLIERS

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
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
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
WFL	45°	1481	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

