ACULUX®

ACULUX LUMINAIRE

Luminaire Type:

Catalog Number (autopopulated):

AX2SQ A/2A/3A G2

PRODUCT SPECIFICATIONS

LED Light Engine 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 45° cutoff to source and source image • Available with field interchangeable optics in 15°, 24°, 35° and 45° distributions • Additional distributions of 20°, 30°, 40°, 50°, 55°, 60°, 60° x 20° FWHM can be achieved with the use of the diffusing films and spot primary optic.

Adjustability Patented Acu-Aim™ precision geared hot-aiming achieves 365˚ rotation, 40˚ tilt with any ceiling thickness from ½" 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 Flangeless styles are available • Flangeless installation is compatible with drywall or solid ceilings such as wood/stone/tile.

LED Driver Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • Dims as low as 1% with most incandescent and electronic low voltage dimmers or most 0-10V 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.

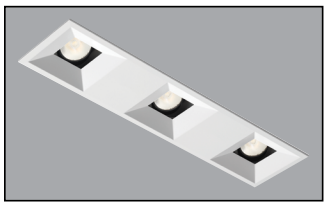
Codes/Labels UL and cUL listed for wet locations depending on trim • ICAT rated new construction fixture meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Certified with all color temperatures with 80 CRI and spot, narrow flood, and flood optics • Union made.

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).

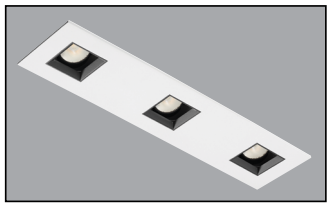
Wiring Housings includes multiple ½" knockouts and is compatible with rigid conduit and flexible supply • All housings supplied with quick connect electrical connectors.

Ceiling Thickness ½" – 1½" ceiling • Vertical aiming in ceiling 1" to 1 ½" is reduced from 40˚ to 25˚.

2" LED RECESSED MULTIPLE
800/1200/1500 LUMEN
SQUARE APERTURE
NEW CONSTRUCTION 1/2/3 HEAD
AX2SQ



BEVEL



PINHOLE

Buy American This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty - 5YR 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25°C.

Specifications subject to change without notice.

ORDERING INFORMATION

Example: AX2SQ A G2 08LM 30K 80CRI 24D FPC 120 ICAT 2SQABV BD WHFM FMA2SQ/075

HOUSING OPTIONS

Series / Housing Style		Lumens		CCT		CRI	Beam		Driver		Voltage[2]	Options	
AX2SQ A G2	New Construction Universal ADJ/DL/WW	**08LM**	800 Lumens	**27K**	2700K	**80CRI**	**15D**	15° beam	**FPC**	Phase cut dimming, 1% dim	**120**	**CP**[3,5]	Chicago Plenum
		12LM	1200 Lumens	**30K**	3000K	**90CRI**[1]	**24D**	24° beam	**ZT**	0-10V Dimming, 1% dim	**MVOLT** (120-277)	**ICAT**[3]	IC, Air-Tight
AX2SQ 2A G2	New Construction 2-Head	**15LM**	1500 Lumens	**35K**	3500K		**35D**	35° beam				**NLIGHT**[4]	nLight dimming pack controls (Must be remotely mounted)
AX2SQ 3A G2	New Construction 3-Head			**40K**	4000K		**45D**	45° beam					

TRIM OPTIONS

Trim Style		Reflector Finish		Flange Style / Finish		Environment		Ceiling Installation			
ADJUSTABLE ACCENT - 1-HEAD		**BD**	Black Diffuse	*SELF FLANGED*		**WET**	Wet location	*SELF FLANGED & FLANGELESS, WOOD/STONE/TILE*			
2SQABV	Bevel			**WHSF**	White painted trim			———	Ceiling ≤ .75"		
2SQAPIN	Pinhole, 1 ¼"			**BLSF**	Black painted trim			**CTA2SQ/120**	Ceiling 0.75" - 1.20"		
ADJUSTABLE ACCENT - 2-HEAD				*FLANGELESS*				**CTA2SQ/150**	Ceiling 1.20" - 1.5"		
2SQ2ABV	Bevel			**WHFM**	Flangeless, White trim			*FLANGELESS, GYPSUM*			
2SQ2APIN	Pinhole, 1 ¼"			**BLFM**	Flangeless, Black trim			**FMA2SQ/075**	Ceiling ≤ .75"		
ADJUSTABLE ACCENT - 3-HEAD								**FMA2SQ/120**	Ceiling 0.75" - 1.20"		
2SQ3ABV	Bevel							**FMA2SQ/150**	Ceiling 1.20" - 1.50"		
2SQ3APIN	Pinhole, 1 ¼"							*2-Head*		*3-Head*	
								FMA2SQ2/075	Ceiling ≤ .75"	**FMA2SQ3/075**	Ceiling ≤ .75"
								FMA2SQ2/120	Ceiling 0.75" - 1.20"	**FMA2SQ3/120**	Ceiling 0.75" - 1.20"
								FMA2SQ2/150	Ceiling 1.20" - 1.50"	**FMA2SQ3/150**	Ceiling 1.20" - 1.50"

NOTES

Ordering Notes

[1] 90CRI available on 27K and 30K only.

[2] MVOLT standard on ZT. 120 standard on FPC.

[3] CP and ICAT available up to 15LM for 1 head and 08LM for 2 head and 3 head.

[4] NLIGHT compatible with ZT only.

[5] CP is also ICAT rated.

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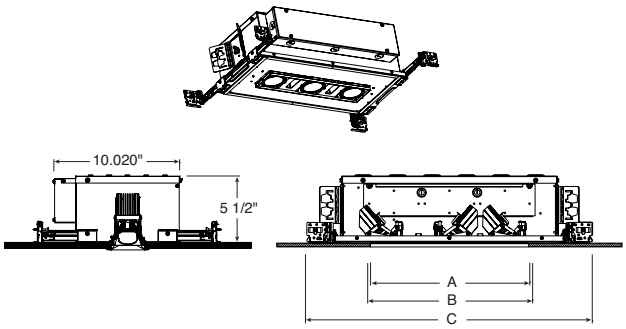
2″ LED RECESSED MULTIPLE
800/1200/1500 LUMEN
SQUARE APERTURE
NEW CONSTRUCTION 1/2/3 HEAD
AX2SQ

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″

FLANGELESS 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″

ELECTRICAL DATA

Lumen Package	08LM			08LM			08LM		
Number of Heads	1			2			3		
Driver Option	FPC	ZT		FPC	ZT		FPC	ZT	
Voltage	120	120	277	120	120	277	120	120	277
Input Power	10.0	9.9	10.1	20.0	19.8	20.2	30.0	29.7	30.3
Input Current	0.08	0.08	0.04	0.16	0.16	0.08	0.24	0.24	0.12
Frequency	50/60Hz			50/60Hz			50/60Hz		
Power Factor	0.99	0.99	0.9	0.99	0.99	0.9	0.99	0.99	0.9

Lumen Package	12LM			12LM			12LM		
Number of Heads	1			2			3		
Driver Option	FPC	ZT		FPC	ZT		FPC	ZT	
Voltage	120	120	277	120	120	277	120	120	277
Input Power	14.7	14.3	14.3	29.4	28.6	28.6	44.1	42.9	42.9
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		
Power Factor	0.99	0.99	0.92	0.99	0.99	0.9	0.99	0.99	0.9

Lumen Package	15LM			15LM			15LM		
Number of Heads	1			2			3		
Driver Option	FPC	ZT		FPC	ZT		FPC	ZT	
Voltage	120	120	277	120	120	277	120	120	277
Input Power	17.3	16.5	16.4	34.6	33.0	32.8	51.9	49.5	49.2
Input Current	0.14	0.14	0.06	0.28	0.28	0.12	0.42	0.42	0.18
Frequency	50/60Hz			50/60Hz			50/60Hz		
Power Factor	0.99	0.99	0.92	0.99	0.99	0.9	0.99	0.99	0.9

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2" LED RECESSED MULTIPLE 800/1200/1500 LUMEN

SQUARE APERTURE
NEW CONSTRUCTION 1/2/3 HEAD

AX2SQ

ACCESSORIES

Cat. #	Description
2AXG2OPT/15D	15˚ Spot Optic
2AXG2OPT/24D	24˚ Narrow Flood Optic
2AXG2OPT/35D	35˚ Flood Optic
2AXG2OPT/45D	45˚ Wide Flood Optic
AF2/10	10˚ Film (Use with 15D Optic)
AF2/20	20˚ Film (Use with 15D Optic)
AF2/30	30˚ Film (Use with 15D Optic)
AF2/40	40˚ Film (Use with 15D Optic)
AF2/50	50˚ Film (Use with 15D Optic)
AF2/60	60˚ Film (Use with 15D Optic)
AF2/90x1	90˚x1˚ Film (Use with 15D Optic)
HB1	(2) Real Nail 3 Bar Hangers
HB26	(2) 26" C-Channel Bar Hangers
HB50	(2) 50" C-Channel Bar Hangers
LB27	(2) 27" Linear Bar Hangers

To order, specify catalog number.

DIFFUSING FILMS

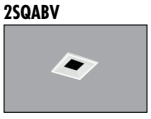
To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film accessory from the table below

Desired FWHM	Primary Optic	Film
15˚	15D	-
20˚	15D	**AF2/10**
24˚	24D	-
30˚	15D	**AF2/20**
35˚	35D	-
40˚	15D	**AF2/30**
45˚	45D	-
50˚	15D	**AF2/40**
55˚	15D	**AF2/50**
60˚	15D	**AF2/60**
60˚x20˚	15D	**AF2/90x1**

TRIM SELECTION

ADJUSTABLE ACCENT

2SQABV

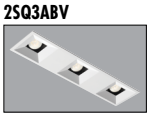


1-Head

2SQ2ABV

2-Head

2SQ3ABV



3-Head

Wet Location*

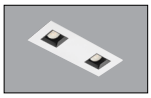
ENERGY STAR

Construction:	ICAT & Non-ICAT
CCT/CRI:	80CRI 27K, 30K, 35K, 40K
Optic:	15D, 24D, 35D, 45D

2SQAPIN

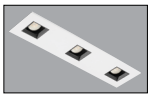
1-Head

2SQ2APIN



2-Head

2SQ3APIN



3-Head

Wet Location*

ENERGY STAR

Construction:	ICAT & Non-ICAT
CCT/CRI:	80CRI 27K, 30K, 35K, 40K
Optic:	15D, 24D, 35D, 45D

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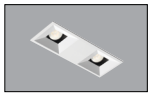
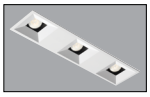
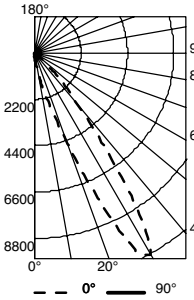
2" LED RECESSED MULTIPLE
800/1200/1500 LUMEN
SQUARE APERTURE
NEW CONSTRUCTION 1/2/3 HEAD
2SQABV / 2SQ2ABV / 2SQ3ABV Trim

PHOTOMETRICS

AX2SQ A G2 15LM 30K 80CRI 15D FPC 120 2SQABV BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1352, LM/W = 78,
test no. PT07172831R,
tested in accordance to IESNA LM-79

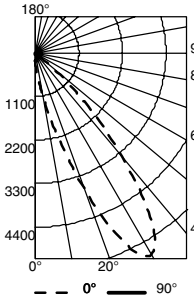
Beam Spread: 15D



CP Summary	0°	90
0°	178	178
5°	402	159
15°	2176	115
25°	8910	65
35°	7185	26
45°	1320	5
55°	67	2
65°	5	0
75°	0	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 24D FPC 120 2SQABV BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1258, LM/W = 73,
test no. PT07172838R,
tested in accordance to IESNA LM-79

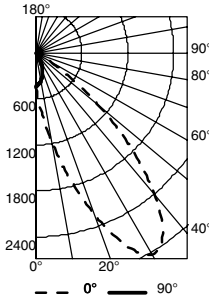
Beam Spread: 24D



CP Summary	0°	90
0°	209	209
5°	481	187
15°	2154	133
25°	5249	73
35°	5069	26
45°	1741	7
55°	92	2
65°	6	0
75°	0	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 35D FPC 120 2SQABV BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1226, LM/W = 71,
test no. PT07172902R,
tested in accordance to IESNA LM-79

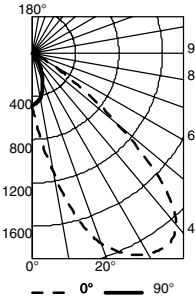
Beam Spread: 35D



CP Summary	0°	90
0°	443	443
5°	741	411
15°	1696	309
25°	2764	176
35°	2882	72
45°	1758	17
55°	505	3
65°	47	0
75°	0	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 45D FPC 120 2SQABV BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1191, LM/W = 69,
test no. PT07172909R,
tested in accordance to IESNA LM-79

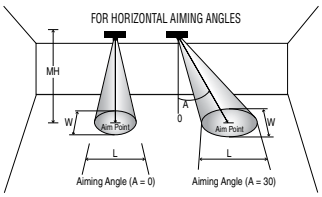
Beam Spread: 45D



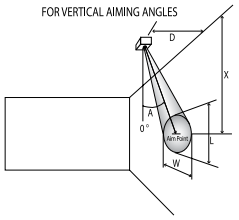
CP Summary	0°	90
0°	493	493
5°	762	464
15°	1558	357
25°	2043	211
35°	2170	88
45°	1701	19
55°	513	3
65°	28	0
75°	0	0
85°	0	0
90	0	0

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°).



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
15°	11040	4	690	1.1	1.1	448	1.5	1.3	2	345	3.5	2.4	1.1	733	2.4	1.4	0.9
		6	307	1.7	1.7	199	2.2	1.9	3	153	5.2	3.6	1.7	326	3.6	2.1	1.3
		8	173	2.2	2.2	112	3.0	2.6	4	86	6.9	4.7	2.2	183	4.8	2.8	1.7
		10	110	2.8	2.8	72	3.7	3.2	5	55	8.7	5.9	2.8	117	6.0	3.5	2.2
		12	77	3.4	3.4	50	4.5	3.9	6	38	10.4	7.1	3.4	81	7.2	4.2	2.6
24°	5875	4	367	1.7	1.7	238	2.3	2.0	2	184	3.5	3.9	1.7	390	2.4	2.2	1.3
		6	163	2.5	2.5	106	3.4	2.9	3	82	5.2	5.9	2.5	173	3.6	3.3	2.0
		8	92	3.4	3.4	60	4.6	3.9	4	46	6.9	7.8	3.4	98	4.8	4.4	2.6
		10	59	4.2	4.2	38	5.7	4.9	5	29	8.7	9.8	4.2	62	6.0	5.5	3.3
		12	41	5.1	5.1	26	6.9	5.9	6	20	10.4	11.7	5.1	43	7.2	6.6	4.0
35°	3037	4	190	2.6	2.6	123	3.6	3.0	2	95	3.5	7.5	2.6	202	2.4	3.7	2.0
		6	84	3.9	3.9	55	5.3	4.5	3	42	5.2	11.2	3.9	90	3.6	5.5	3.0
		8	47	5.2	5.2	31	7.1	5.9	4	24	6.9	15.0	5.2	50	4.8	7.3	4.0
		10	30	6.4	6.4	20	8.9	7.4	5	15	8.7	18.7	6.4	32	6.0	9.1	5.0
		12	21	7.7	7.7	14	10.7	8.9	6	11	10.4	22.4	7.7	22	7.2	11.0	6.0
45°	2139	4	134	3.3	3.3	87	4.6	3.8	2	67	3.5	13.0	3.3	142	2.4	5.2	2.5
		6	59	4.9	4.9	39	6.9	5.7	3	30	5.2	19.6	4.9	63	3.6	7.8	3.8
		8	33	6.5	6.5	22	9.2	7.5	4	17	6.9	26.1	6.5	36	4.8	10.3	5.1
		10	21	8.2	8.2	14	11.5	9.4	5	11	8.7	32.6	8.2	23	6.0	12.9	6.3
		12	15	9.8	9.8	10	13.8	11.3	6	7	10.4	39.1	9.8	16	7.2	15.5	7.6

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00

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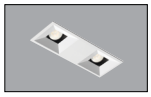
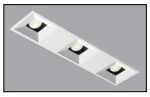
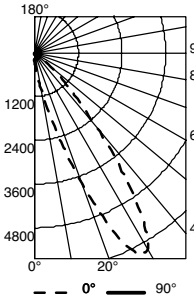
2" LED RECESSED MULTIPLE
800/1200/1500 LUMEN
SQUARE APERTURE
NEW CONSTRUCTION 1/2/3 HEAD

PHOTOMETRICS 2SQABV / 2SQ2ABV / 2SQ3ABV Trim with WET option

AX2SQ A G2 15LM 30K 80CRI 15D FPC 120 2SQABV BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 1140, LM/W = 66,
test no. PT07172834R,
tested in accordance to IESNA LM-79

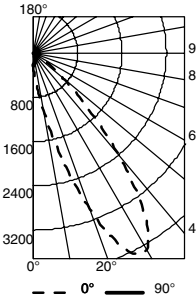
Beam Spread: 15D



CP Summary	0°	90°
0°	201	201
5°	441	182
15°	2078	128
25°	5738	69
35°	4677	27
45°	1237	8
55°	213	3
65°	19	1
75°	0	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 24D FPC 120 2SQABV BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 1068, LM/W = 62,
test no. PT07172841R,
tested in accordance to IESNA LM-79

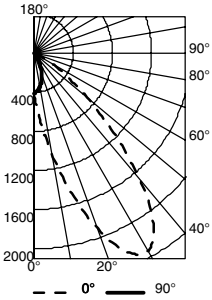
Beam Spread: 24D



CP Summary	0°	90°
0°	233	233
5°	507	208
15°	1927	145
25°	3895	78
35°	3456	31
45°	1331	10
55°	277	4
65°	26	1
75°	1	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 35D FPC 120 2SQABV BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 1005, LM/W = 58,
test no. PT07172905R,
tested in accordance to IESNA LM-79

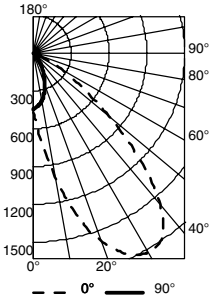
Beam Spread: 35D



CP Summary	0°	90°
0°	419	419
5°	682	388
15°	1477	293
25°	2238	168
35°	2123	71
45°	1148	22
55°	382	6
65°	51	2
75°	1	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 45D FPC 120 2SQABV BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 1020, LM/W = 59,
test no. PT07172912R,
tested in accordance to IESNA LM-79

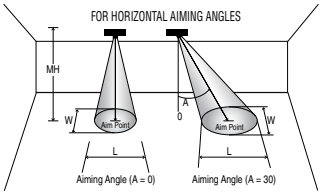
Beam Spread: 45D



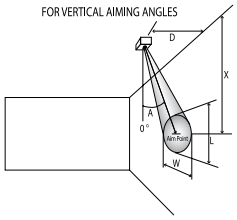
CP Summary	0°	90°
0°	450	450
5°	692	422
15°	1330	329
25°	1757	198
35°	1781	87
45°	1193	27
55°	461	7
65°	91	2
75°	3	0
85°	7	0
90	11	0

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°).



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
15°	6213	4	388	1.4	1.4	252	2.0	1.7	2	194	3.5	3.2	1.4	413	2.4	1.8	1.1
		6	173	2.2	2.2	112	2.9	2.5	3	86	5.2	4.8	2.2	183	3.6	2.8	1.7
		8	97	2.9	2.9	63	3.9	3.3	4	49	6.9	6.4	2.9	103	4.8	3.7	2.3
		10	62	3.6	3.6	40	4.9	4.2	5	31	8.7	8.0	3.6	66	6.0	4.6	2.8
		12	43	4.3	4.3	28	5.9	5.0	6	22	10.4	9.6	4.3	46	7.2	5.5	3.4
24°	4092	4	256	1.8	1.8	166	2.5	2.1	2	128	3.5	4.4	1.8	272	2.4	2.4	1.4
		6	114	2.8	2.8	74	3.7	3.2	3	57	5.2	6.6	2.8	121	3.6	3.6	2.1
		8	64	3.7	3.7	42	5.0	4.2	4	32	6.9	8.7	3.7	68	4.8	4.8	2.9
		10	41	4.6	4.6	27	6.2	5.3	5	20	8.7	10.9	4.6	43	6.0	6.0	3.6
		12	28	5.5	5.5	18	7.5	6.4	6	14	10.4	13.1	5.5	30	7.2	7.2	4.3
35°	2332	4	146	2.4	2.4	95	3.3	2.8	2	73	3.5	6.6	2.4	155	2.4	3.4	1.9
		6	65	3.6	3.6	42	5.0	4.2	3	32	5.2	10.0	3.6	69	3.6	5.0	2.8
		8	36	4.8	4.8	24	6.6	5.6	4	18	6.9	13.3	4.8	39	4.8	6.7	3.8
		10	23	6.0	6.0	15	8.3	7.0	5	12	8.7	16.6	6.0	25	6.0	8.4	4.7
		12	16	7.2	7.2	11	10.0	8.4	6	8	10.4	19.9	7.2	17	7.2	10.1	5.6
45°	1825	4	114	3.2	3.2	74	4.5	3.7	2	57	3.5	12.1	3.2	121	2.4	5.0	2.5
		6	51	4.8	4.8	33	6.7	5.5	3	25	5.2	18.2	4.8	54	3.6	7.5	3.7
		8	29	6.4	6.4	19	9.0	7.4	4	14	6.9	24.3	6.4	30	4.8	9.9	5.0
		10	18	8.0	8.0	12	11.2	9.2	5	9	8.7	30.3	8.0	19	6.0	12.4	6.2
		12	13	9.6	9.6	8	13.4	11.0	6	6	10.4	36.4	9.6	13	7.2	14.9	7.4

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00

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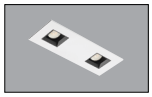
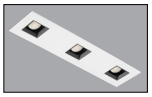
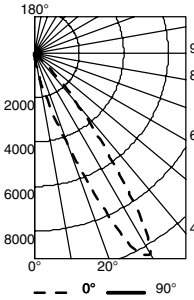



2" LED RECESSED MULTIPLE
800/1200/1500 LUMEN
SQUARE APERTURE
NEW CONSTRUCTION 1/2/3 HEAD
2SQAPIN / 2SQ2APIN / 2SQ3APIN Trim

PHOTOMETRICS

AX2SQ A G2 15LM 30K 80CRI 15D FPC 120 2SQAPIN BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1229, LM/W = 71,
test no. PT07172832R,
tested in accordance to IESNA LM-79

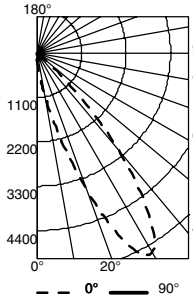
Beam Spread: 15D



CP Summary	0°	90
0°	149	149
5°	334	133
15°	2124	94
25°	8560	48
35°	6656	10
45°	933	3
55°	31	0
65°	1	0
75°	0	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 24D FPC 120 2SQAPIN BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1140, LM/W = 66,
test no. PT07172839R,
tested in accordance to IESNA LM-79

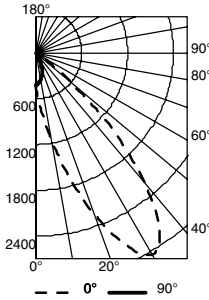
Beam Spread: 24D



CP Summary	0°	90
0°	184	184
5°	443	164
15°	2135	114
25°	5171	57
35°	4750	15
45°	1297	4
55°	33	1
65°	1	0
75°	0	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 35D FPC 120 2SQAPIN BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1088, LM/W = 63,
test no. PT07172903R,
tested in accordance to IESNA LM-79

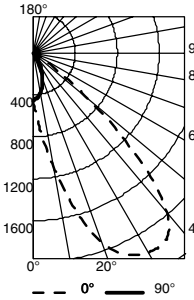
Beam Spread: 35D



CP Summary	0°	90
0°	429	429
5°	724	397
15°	1686	295
25°	2776	160
35°	2814	51
45°	1416	7
55°	180	1
65°	1	0
75°	0	0
85°	0	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 45D FPC 120 2SQAPIN BD
3000K LEDs, input watts: 17.3,
delivered lumens: 1058, LM/W = 61,
test no. PT07172910R,
tested in accordance to IESNA LM-79

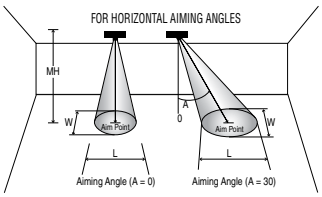
Beam Spread: 45D



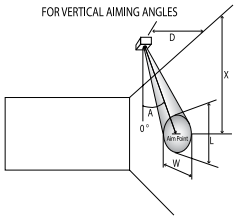
CP Summary	0°	90
0°	461	461
5°	734	427
15°	1551	325
25°	2118	180
35°	2193	61
45°	1428	7
55°	216	1
65°	1	0
75°	0	0
85°	0	0
90	0	0

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˚).



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
15°	10430	4	652	1.1	1.1	423	1.5	1.3	2	326	3.5	2.4	1.1	693	2.4	1.4	0.9
		6	290	1.7	1.7	188	2.2	1.9	3	145	5.2	3.6	1.7	308	3.6	2.1	1.3
		8	163	2.2	2.2	106	3.0	2.6	4	81	6.9	4.7	2.2	173	4.8	2.8	1.7
		10	104	2.8	2.8	68	3.7	3.2	5	52	8.7	5.9	2.8	111	6.0	3.5	2.2
		12	72	3.4	3.4	47	4.5	3.9	6	36	10.4	7.1	3.4	77	7.2	4.2	2.6
24°	5705	4	357	1.6	1.6	232	2.2	1.9	2	178	3.5	3.8	1.6	379	2.4	2.1	1.3
		6	158	2.5	2.5	103	3.3	2.8	3	79	5.2	5.6	2.5	168	3.6	3.2	1.9
		8	89	3.3	3.3	58	4.4	3.8	4	45	6.9	7.5	3.3	95	4.8	4.2	2.6
		10	57	4.1	4.1	37	5.6	4.7	5	29	8.7	9.4	4.1	61	6.0	5.3	3.2
		12	40	4.9	4.9	26	6.7	5.7	6	20	10.4	11.3	4.9	42	7.2	6.3	3.8
35°	3048	4	191	2.5	2.5	124	3.5	2.9	2	95	3.5	7.2	2.5	202	2.4	3.6	2.0
		6	85	3.8	3.8	55	5.2	4.4	3	42	5.2	10.8	3.8	90	3.6	5.3	2.9
		8	48	5.0	5.0	31	7.0	5.8	4	24	6.9	14.4	5.0	51	4.8	7.1	3.9
		10	30	6.3	6.3	20	8.7	7.3	5	15	8.7	18.0	6.3	32	6.0	8.9	4.9
		12	21	7.6	7.6	14	10.4	8.7	6	11	10.4	21.6	7.6	22	7.2	10.7	5.9
45°	2195	4	137	3.1	3.1	89	4.3	3.6	2	69	3.5	11.2	3.1	146	2.4	4.7	2.4
		6	61	4.6	4.6	40	6.5	5.3	3	30	5.2	16.7	4.6	65	3.6	7.1	3.6
		8	34	6.2	6.2	22	8.7	7.1	4	17	6.9	22.3	6.2	36	4.8	9.5	4.8
		10	22	7.7	7.7	14	10.8	8.9	5	11	8.7	27.9	7.7	23	6.0	11.8	6.0
		12	15	9.3	9.3	10	13.0	10.7	6	8	10.4	33.5	9.3	16	7.2	14.2	7.2

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00

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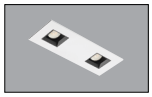
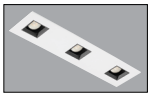
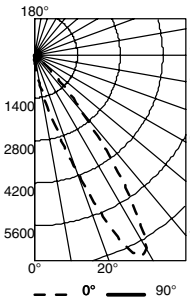
2" LED RECESSED MULTIPLE
800/1200/1500 LUMEN
SQUARE APERTURE
NEW CONSTRUCTION 1/2/3 HEAD

PHOTOMETRICS 2SQAPIN / 2SQ2APIN / 2SQ3APIN Trim with WET option

AX2SQ A G2 15LM 30K 80CRI 15D FPC 120 2SQAPIN BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 1072, LM/W = 62,
test no. PT07172835R,
tested in accordance to IESNA LM-79

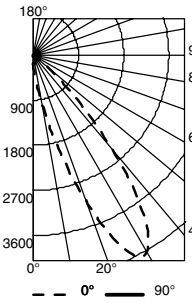
Beam Spread: 15D



CP Summary	0°	90
0°	155	155
5°	363	139
15°	2053	98
25°	6747	50
35°	4994	15
45°	914	4
55°	57	1
65°	3	0
75°	0	0
85°	1	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 24D FPC 120 2SQAPIN BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 1002, LM/W = 58,
test no. PT07172842R,
tested in accordance to IESNA LM-79

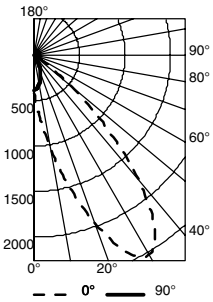
Beam Spread: 24D



CP Summary	0°	90
0°	187	187
5°	437	167
15°	1920	117
25°	4256	59
35°	3775	19
45°	1140	6
55°	93	1
65°	4	0
75°	0	0
85°	1	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 35D FPC 120 2SQAPIN BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 947, LM/W = 55,
test no. PT07172906R,
tested in accordance to IESNA LM-79

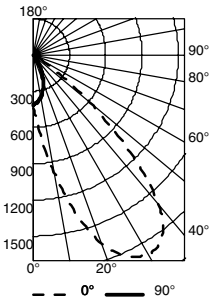
Beam Spread: 35D



CP Summary	0°	90
0°	395	395
5°	660	365
15°	1493	273
25°	2378	147
35°	2310	50
45°	1125	9
55°	194	1
65°	7	0
75°	1	0
85°	2	0
90	0	0

AX2SQ A G2 15LM 30K 80CRI 45D FPC 120 2SQAPIN BD WET
3000K LEDs, input watts: 17.3,
delivered lumens: 921, LM/W = 53,
test no. PT07172913R,
tested in accordance to IESNA LM-79

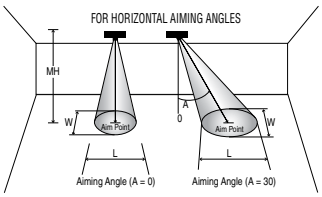
Beam Spread: 45D



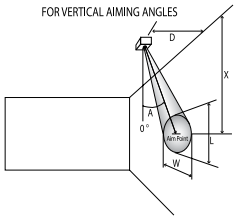
CP Summary	0°	90
0°	419	419
5°	666	391
15°	1354	300
25°	1837	170
35°	1855	61
45°	1132	10
55°	225	1
65°	3	0
75°	1	0
85°	3	0
90	0	0

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˚).



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
15°	7317	4	457	1.3	1.3	297	1.7	1.5	2	229	3.5	2.8	1.3	486	2.4	1.6	1.0
		6	203	1.9	1.9	132	2.6	2.2	3	102	5.2	4.2	1.9	216	3.6	2.4	1.5
		8	114	2.6	2.6	74	3.5	3.0	4	57	6.9	5.6	2.6	121	4.8	3.2	2.0
		10	73	3.2	3.2	48	4.3	3.7	5	37	8.7	7.0	3.2	78	6.0	4.0	2.5
		12	51	3.9	3.9	33	5.2	4.5	6	25	10.4	8.4	3.9	54	7.2	4.9	3.0
24°	4538	4	284	1.7	1.7	184	2.3	2.0	2	142	3.5	4.0	1.7	301	2.4	2.2	1.3
		6	126	2.6	2.6	82	3.5	3.0	3	63	5.2	6.0	2.6	134	3.6	3.3	2.0
		8	71	3.4	3.4	46	4.6	4.0	4	35	6.9	8.0	3.4	75	4.8	4.4	2.7
		10	45	4.3	4.3	29	5.8	5.0	5	23	8.7	9.9	4.3	48	6.0	5.6	3.3
		12	32	5.1	5.1	20	7.0	5.9	6	16	10.4	11.9	5.1	33	7.2	6.7	4.0
35°	2531	4	158	2.6	2.6	103	3.5	2.9	2	79	3.5	7.4	2.6	168	2.4	3.6	2.0
		6	70	3.8	3.8	46	5.3	4.4	3	35	5.2	11.0	3.8	75	3.6	5.4	3.0
		8	40	5.1	5.1	26	7.0	5.9	4	20	6.9	14.7	5.1	42	4.8	7.2	4.0
		10	25	6.4	6.4	16	8.8	7.4	5	13	8.7	18.4	6.4	27	6.0	9.0	5.0
		12	18	7.7	7.7	11	10.6	8.8	6	9	10.4	22.1	7.7	19	7.2	10.8	6.0
45°	1904	4	119	3.1	3.1	77	4.3	3.5	2	60	3.5	10.9	3.1	126	2.4	4.7	2.4
		6	53	4.6	4.6	34	6.4	5.3	3	26	5.2	16.3	4.6	56	3.6	7.0	3.6
		8	30	6.1	6.1	19	8.6	7.1	4	15	6.9	21.7	6.1	32	4.8	9.3	4.8
		10	19	7.6	7.6	12	10.7	8.8	5	10	8.7	27.2	7.6	20	6.0	11.7	5.9
		12	13	9.2	9.2	9	12.8	10.6	6	7	10.4	32.6	9.2	14	7.2	14.0	7.1

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00

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