

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 50° cutoff to source and source image • Available with field interchangeable optics in 18° Spot, 24° Narrow Flood, 35° Flood, and 45° wide flood distributions • Additional distributions of 20°, 30°, 50° and 55° FWHM can be achieved with the use of the diffusing films and spot primary optic.

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 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 • Dimmable with most incandescent, magnetic low voltage, and electronic low voltage dimmers or 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.

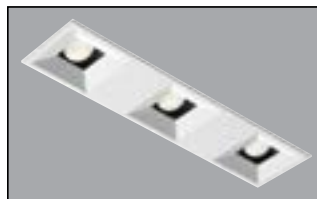
Codes/Labels UL and cUL listed for wet locations depending on trim • ICAT rated new construction fixture meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Certified with all color temperatures with 80 CRI and spot, narrow flood, and flood optics • Union made.

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).

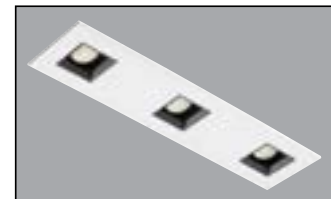
Wiring Housings includes multiple 1/2" knockouts and is compatible with rigid conduit and flexible supply • All housings supplied with quick connect electrical connectors.

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

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



BEVEL



PINHOLE



SCOOP

Warranty - 5YR 5-year limited warranty. Complete warranty terms located at: http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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 08LM 30K 80CRI 24D FPC 120 ICAT 2SQABV BD WHFM FMA2SQ/075

Series / Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ¹	Options
AX2SQ A New Construction 1-Head	08LM 800 Lumens	27K 2700K	80CRI	18D 18° beam	FPC Phase cut dimming, 5% dim	120	CP Chicago Plenum
AX2SQ 2A New Construction 2-Head	12LM 1200 Lumens	30K 3000K	90CRI	24D 24° beam	ZT 0-10V Dimming, 10% dim		ICAT ³ IC, Air-Tight
AX2SQ 3A New Construction 3-Head		35K 3500K		35D 35° beam		MVOLT (120-277)	NLIGHT ² nLight dimming pack controls
		40K 4000K		45D 45° beam			

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 pointed trim		1/2/3-Head
2SQAPIN Pinhole, 1 1/4"		BLSF Black pointed trim		Ceiling ≤ .75"
2SQASC Scoop		FLANGELESS		CTA2SQ/120 Ceiling 0.75" - 1.20" CTA2SQ/150 Ceiling 1.20" - 1.50"
ADJUSTABLE ACCENT - 2-HEAD		WHFM Flangeless, White trim		FLANGELESS, GYPSUM
2SQ2ABV Bevel		BLFM Flangeless, Black trim		1-Head
2SQ2APIN Pinhole, 1 1/4"				FMA2SQ/075 Ceiling ≤ .75"
2SQ2ASC Scoop				FMA2SQ/120 Ceiling 0.75" - 1.20" FMA2SQ/150 Ceiling 1.20" - 1.50"
ADJUSTABLE ACCENT - 3-HEAD				2-Head
2SQ3ABV Bevel				FMA2SQ2/075 Ceiling ≤ .75"
2SQ3APIN Pinhole, 1 1/4"				FMA2SQ2/120 Ceiling 0.75" - 1.20" FMA2SQ3/120 Ceiling 0.75" - 1.20"
2SQ3ASC Scoop				FMA2SQ2/150 Ceiling 1.20" - 1.50" FMA2SQ3/150 Ceiling 1.20" - 1.50"

Ordering Notes

¹ MVOLT standard on ZT. 120 standard on FPC
² NLIGHT compatible with ZT only
³ ICAT not available on 12LM for 2-Head and 3-Head

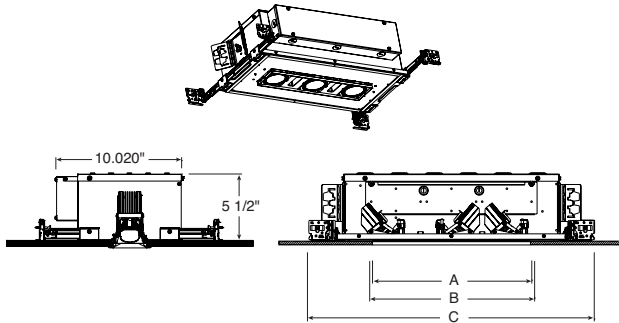
2" LED RECESSED MULTIPLE

800/1200 LUMEN

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 (per Head)	08LM						12LM					
	1		2		3		1		2		3	
Number of Heads	1		2		3		1		2		3	
Driver Option	FPC	ZT	FPC	ZT	FPC	ZT	FPC	ZT	FPC	ZT	FPC	ZT
Voltage	120	120 277	120	120 277	120	120 277	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	14.8	14.8 14.6	29.6	29.6 29.2	44.4	44.4 43.8
Input Current	0.09	0.08 0.04	0.18	0.16 0.08	0.27	0.24 0.12	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	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	0.99	0.99 0.95	0.99	0.99 0.93	0.99	0.99 0.93

2" LED RECESSED MULTIPLE

800/1200 LUMEN

NEW CONSTRUCTION 1/2/3 HEAD

AX2SQ

ACCESSORIES

Cat. #	Description
2AXOPT/18D	18° Spot Optic
2AXOPT/24D	24° Narrow Flood Optic
2AXOPT/35D	35° Flood Optic
2AXOPT/45D	45° Wide Flood Optic
AF2/10	10° Film (Use with Spot Optic)
AF2/20	20° Film (Use with Spot Optic)
AF2/40	40° Film (Use with Spot Optic)
AF2/50	50° Film (Use with Spot Optic)
AF2/90x1	90°x1° Film (Use with Spot 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 from the table below

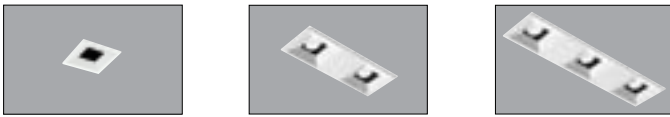
Desired FWHM	Primary Optic	Film
18°	18D	-
20°	18D	AF2/10
24°	24D	-
30°	18D	AF2/20
35°	35D	-
45°	45D	-
50°	18D	AF2/40
55°	18D	AF2/50
60°x20°	18D	AF2/90x1

TRIM SELECTION

ADJUSTABLE ACCENT

<p>2SQABV</p>  <p>1-Head</p>	<p>2SQ2ABV</p>  <p>2-Head</p>	<p>2SQ3ABV</p>  <p>3-Head</p>			<table border="1"> <tr> <td>Construction:</td> <td>ICAT & Non-ICAT</td> </tr> <tr> <td>CCT/CRI:</td> <td>80CRI 27K, 30K, 35K, 40K</td> </tr> <tr> <td>Optic:</td> <td>18D, 24D, 35D</td> </tr> <tr> <td>Trim Finish:</td> <td>BD</td> </tr> </table>	Construction:	ICAT & Non-ICAT	CCT/CRI:	80CRI 27K, 30K, 35K, 40K	Optic:	18D, 24D, 35D	Trim Finish:	BD
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<p>2SQAPIN</p>  <p>1-Head</p>	<p>2SQ2APIN</p>  <p>2-Head</p>	<p>2SQ3APIN</p>  <p>3-Head</p>			<table border="1"> <tr> <td>Construction:</td> <td>ICAT & Non-ICAT</td> </tr> <tr> <td>CCT/CRI:</td> <td>80CRI 27K, 30K, 35K, 40K</td> </tr> <tr> <td>Optic:</td> <td>18D, 24D, 35D</td> </tr> <tr> <td>Trim Finish:</td> <td>BD</td> </tr> </table>	Construction:	ICAT & Non-ICAT	CCT/CRI:	80CRI 27K, 30K, 35K, 40K	Optic:	18D, 24D, 35D	Trim Finish:	BD
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CCT/CRI:	80CRI 27K, 30K, 35K, 40K												
Optic:	18D, 24D, 35D												
Trim Finish:	BD												
<p>2SQASC</p>  <p>1-Head</p>	<p>2SQ2ASC</p>  <p>2-Head</p>	<p>2SQ3ASC</p>  <p>3-Head</p>			<table border="1"> <tr> <td>Construction:</td> <td>ICAT & Non-ICAT</td> </tr> <tr> <td>CCT/CRI:</td> <td>80CRI 27K, 30K, 35K, 40K</td> </tr> <tr> <td>Optic:</td> <td>18D, 24D, 35D, 45D</td> </tr> <tr> <td>Trim Finish:</td> <td>BD</td> </tr> </table>	Construction:	ICAT & Non-ICAT	CCT/CRI:	80CRI 27K, 30K, 35K, 40K	Optic:	18D, 24D, 35D, 45D	Trim Finish:	BD
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CCT/CRI:	80CRI 27K, 30K, 35K, 40K												
Optic:	18D, 24D, 35D, 45D												
Trim Finish:	BD												

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

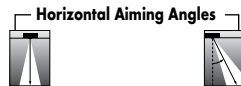
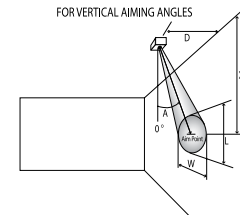
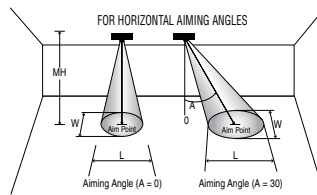


PHOTOMETRICS

SPOT PHOTOMETRIC REPORT		NARROW FLOOD PHOTOMETRIC REPORT		FLOOD PHOTOMETRIC REPORT		WIDE FLOOD PHOTOMETRIC REPORT	
Test Report: PTO2141108	Candlepower Distribution (Candelas)	Test Report: PTO2141112	Candlepower Distribution (Candelas)	Test Report: PTO2141202	Candlepower Distribution (Candelas)	Test Report: PTO2141206	Candlepower Distribution (Candelas)
Catalog No: AX2SQ A 12LM 30K 80CRI 18D FPC 120 2SQABV BD (Aim at 30°)	Degrees	Catalog No: AX2SQ A 12LM 30K 80CRI 24D FPC 120 2SQABV BD (Aim at 30°)	Degrees	Catalog No: AX2SQ A 12LM 30K 80CRI 35D FPC 120 2SQABV BD (Aim at 30°)	Degrees	Catalog No: AX2SQ A 12LM 30K 80CRI 45D FPC 120 2SQABV BD (Aim at 30°)	Degrees
Watts: 14.8	Vertical Candela	Watts: 14.8	Vertical Candela	Watts: 14.8	Vertical Candela	Watts: 14.8	Vertical Candela
Lumens: 1082	0° 120	Lumens: 1008	0° 148	Lumens: 996	0° 219	Lumens: 850	0° 466
Luminaire LPW: 73	5° 240	Luminaire LPW: 68	5° 299	Luminaire LPW: 67	5° 419	Luminaire LPW: 57	5° 704
	10° 595		10° 677		10° 787		10° 957
	15° 1696		15° 1528		15° 1293		15° 1152
	20° 3724		20° 2941		20° 1728		20° 1276
	25° 6630		25° 4615		25° 1994		25° 1367
	30° 7356		30° 5496		30° 2126		30° 1399
	35° 5823		35° 4627		35° 2117		35° 1347
	40° 2704		40° 2827		40° 2021		40° 1228
	45° 1063		45° 1368		45° 1747		45° 989
	50° 334		50° 555		50° 1302		50° 519
	55° 86		55° 163		55° 634		55° 266
	60° 21		60° 47		60° 272		60° 135
	65° 4		65° 13		65° 85		65° 45
	70° 1		70° 2		70° 4		70° 1
	75° 0		75° 0		75° 0		75° 0
	80° 0		80° 0		80° 0		80° 0
	85° 0		85° 0		85° 0		85° 0
	90° 0		90° 0		90° 0		90° 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°).



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
SP	18°	7356	4	460	1.3	1.3	299	1.7	1.5	2	230	3.5	2.7	1.3	488	2.4	1.6	1.0
			6	204	1.9	1.9	133	2.6	2.2	3	102	5.2	4.1	1.9	217	3.6	2.4	1.5
			8	115	2.5	2.5	75	3.4	2.9	4	57	6.9	5.5	2.5	122	4.8	3.2	2.0
			10	74	3.2	3.2	48	4.3	3.7	5	37	8.7	6.9	3.2	78	6.0	4.0	2.5
			12	51	3.8	3.8	33	5.1	4.4	6	26	10.4	8.2	3.8	54	7.2	4.8	3.0
NFL	24°	5496	4	344	1.7	1.7	223	2.3	2.0	2	172	3.5	3.9	1.7	365	2.4	2.2	1.3
			6	153	2.6	2.6	99	3.5	2.9	3	76	5.2	5.9	2.6	162	3.6	3.3	2.0
			8	86	3.4	3.4	56	4.6	3.9	4	43	6.9	7.9	3.4	91	4.8	4.4	2.6
			10	55	4.3	4.3	36	5.8	4.9	5	27	8.7	9.8	4.3	58	6.0	5.5	3.3
			12	38	5.1	5.1	25	6.9	5.9	6	19	10.4	11.8	5.1	41	7.2	6.6	4.0
FL	35°	2126	4	133	2.5	2.5	86	3.5	2.9	2	66	3.5	7.2	2.5	141	2.4	3.6	2.0
			6	59	3.8	3.8	38	5.2	4.4	3	30	5.2	10.8	3.8	63	3.6	5.3	2.9
			8	33	5.0	5.0	22	7.0	5.8	4	17	6.9	14.4	5.0	35	4.8	7.1	3.9
			10	21	6.3	6.3	14	8.7	7.3	5	11	8.7	18.0	6.3	23	6.0	8.9	4.9
			12	15	7.6	7.6	10	10.4	8.7	6	7	10.4	21.6	7.6	16	7.2	10.7	5.9
WFL	45°	1399	4	87	3.3	3.3	57	4.7	3.8	2	44	3.5	13.7	3.3	93	2.4	5.3	2.6
			6	36	5.0	5.0	25	7.0	5.7	3	19	5.2	20.5	5.0	41	3.6	8.0	3.9
			8	22	6.6	6.6	14	9.4	7.7	4	11	6.9	27.3	6.6	23	4.8	10.6	5.2
			10	14	8.3	8.3	9	11.7	9.6	5	7	8.7	34.1	8.3	15	6.0	13.3	6.4
			12	10	9.9	9.9	6	14.1	11.5	6	5	10.4	41.0	9.9	10	7.2	15.9	7.7



2" LED RECESSED MULTIPLE

800/1200 LUMEN

NEW CONSTRUCTION 1/2/3 HEAD

2SQABV / 2SQ2ABV / 2SQ3ABV

Trim with WET option

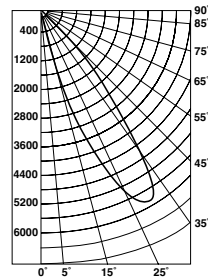
PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report: PTO2141110
 Catalog No: AX2SQ A 12LM 30K
 80CRI 18D FPC 120
 2SQABV BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 958
 Luminaire LPW: 65



Candlepower Distribution (Candelas)

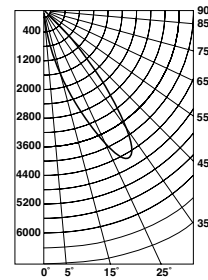
Degrees	Vertical	Candela
0°	120	
5°	235	
10°	592	
15°	1571	
20°	3317	
25°	5459	
30°	5985	
35°	4589	
40°	2341	
45°	941	
50°	340	
55°	109	
60°	34	
65°	10	
70°	2	
75°	0	
80°	0	
85°	0	
90°	0	

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PTO2141114
 Catalog No: AX2SQ A 12LM 30K
 80CRI 24D FPC 120
 2SQABV BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 884
 Luminaire LPW: 60



Candlepower Distribution (Candelas)

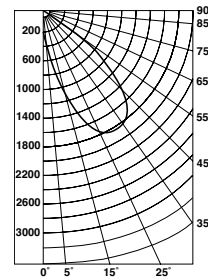
Degrees	Vertical	Candela
0°	140	
5°	280	
10°	627	
15°	1373	
20°	2571	
25°	3929	
30°	4528	
35°	3783	
40°	2371	
45°	1193	
50°	499	
55°	177	
60°	60	
65°	18	
70°	4	
75°	0	
80°	0	
85°	0	
90°	0	

FLOOD

PHOTOMETRIC REPORT

Test Report: PTO2141204
 Catalog No: AX2SQ A 12LM 30K
 80CRI 35D FPC 120
 2SQABV BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 870
 Luminaire LPW: 59



Candlepower Distribution (Candelas)

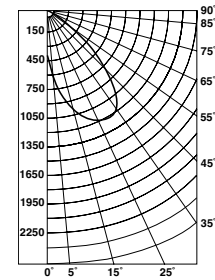
Degrees	Vertical	Candela
0°	203	
5°	384	
10°	710	
15°	1135	
20°	1515	
25°	1751	
30°	1857	
35°	1846	
40°	1728	
45°	1451	
50°	1009	
55°	547	
60°	246	
65°	88	
70°	13	
75°	0	
80°	0	
85°	0	
90°	0	

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report: PTO2141208
 Catalog No: AX2SQ A 12LM 30K
 80CRI 45D FPC 120
 2SQABV BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 741
 Luminaire LPW: 50

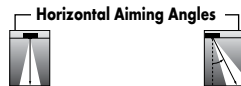
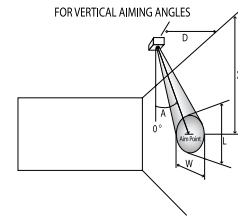
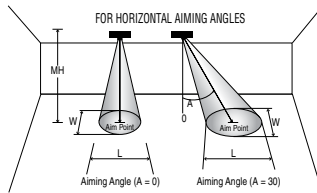


Candlepower Distribution (Candelas)

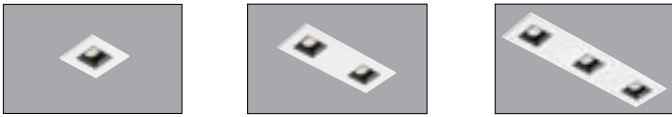
Degrees	Vertical	Candela
0°	412	
5°	614	
10°	834	
15°	1008	
20°	1122	
25°	1198	
30°	1220	
35°	1173	
40°	1049	
45°	787	
50°	458	
55°	234	
60°	116	
65°	44	
70°	2	
75°	0	
80°	0	
85°	0	
90°	0	

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°).



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
SP	18°	5985	4	374	1.3	1.3	243	1.7	1.5	2	187	3.5	2.7	1.3	397	2.4	1.6	1.0
			6	166	1.9	1.9	108	2.6	2.2	3	83	5.2	4.1	1.9	177	3.6	2.4	1.5
			8	94	2.5	2.5	61	3.4	2.9	4	47	6.9	5.5	2.5	99	4.8	3.2	2.0
			10	60	3.2	3.2	39	4.3	3.7	5	30	8.7	6.9	3.2	64	6.0	4.0	2.5
			12	42	3.8	3.8	27	5.1	4.4	6	21	10.4	8.2	3.8	44	7.2	4.8	3.0
NFL	24°	4528	4	283	1.7	1.7	184	2.3	2.0	2	142	3.5	3.9	1.7	301	2.4	2.2	1.3
			6	126	2.6	2.6	82	3.5	2.9	3	63	5.2	5.9	2.6	134	3.6	3.3	2.0
			8	71	3.4	3.4	46	4.6	3.9	4	35	6.9	7.9	3.4	75	4.8	4.4	2.6
			10	45	4.3	4.3	29	5.8	4.9	5	23	8.7	9.8	4.3	48	6.0	5.5	3.3
FL	35°	1857	4	116	2.5	2.5	75	3.5	2.9	2	58	3.5	7.2	2.5	123	2.4	3.6	2.0
			6	52	3.8	3.8	34	5.2	4.4	3	26	5.2	10.8	3.8	55	3.6	5.3	2.9
			8	29	5.0	5.0	19	7.0	5.8	4	15	6.9	14.4	5.0	31	4.8	7.1	3.9
			10	19	6.3	6.3	12	8.7	7.3	5	9	8.7	18.0	6.3	20	6.0	8.9	4.9
WFL	45°	1220	4	76	3.3	3.3	50	4.7	3.8	2	38	3.5	13.7	3.3	81	2.4	5.3	2.6
			6	34	5.0	5.0	22	7.0	5.7	3	17	5.2	20.5	5.0	36	3.6	8.0	3.9
			8	19	6.6	6.6	12	9.4	7.7	4	10	6.9	27.3	6.6	20	4.8	10.6	5.2
			10	12	8.3	8.3	8	11.7	9.6	5	6	8.7	34.1	8.3	13	6.0	13.3	6.4
			12	8	9.9	9.9	6	14.1	11.5	6	4	10.4	41.0	9.9	9	7.2	15.9	7.7



2" LED RECESSED MULTIPLE

800/1200 LUMEN

NEW CONSTRUCTION 1/2/3 HEAD

2SQAPIN / 2SQ2APIN / 2SQ3APIN

Trim

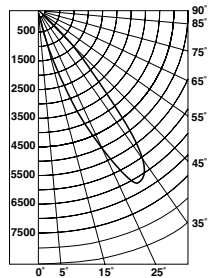
PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report: PT10140901R
Catalog No: AX2SQ A 12LM 30K
 80CRI 18D FPC 120
 2SQAPIN BD
 (Aim at 30°)

Watts: 14.8
Lumens: 847
Luminaire LPW: 57

Vertical Degrees	Candela
0°	84
5°	150
10°	373
15°	1016
20°	2367
25°	5017
30°	6784
35°	6038
40°	2941
45°	930
50°	210
55°	63
60°	14
65°	4
70°	0
75°	0
80°	0
85°	0
90°	0

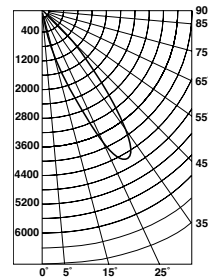


NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PT10140903R
Catalog No: AX2SQ A 12LM 30K
 80CRI 24D FPC 120
 2SQAPIN BD
 (Aim at 30°)

Watts: 14.8
Lumens: 777
Luminaire LPW: 53

Vertical Degrees	Candela
0°	94
5°	200
10°	502
15°	1166
20°	2347
25°	3822
30°	4636
35°	3861
40°	2247
45°	978
50°	269
55°	67
60°	22
65°	6
70°	1
75°	0
80°	0
85°	0
90°	0

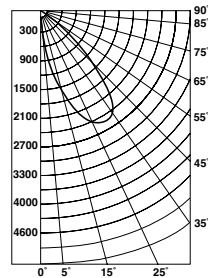


FLOOD PHOTOMETRIC REPORT

Test Report: PT10140905R
Catalog No: AX2SQ A 12LM 30K
 80CRI 35D FPC 120
 2SQAPIN BD
 (Aim at 30°)

Watts: 14.8
Lumens: 944
Luminaire LPW: 64

Vertical Degrees	Candela
0°	241
5°	496
10°	945
15°	1537
20°	2086
25°	2440
30°	2598
35°	2480
40°	2038
45°	1437
50°	754
55°	331
60°	93
65°	3
70°	0
75°	0
80°	0
85°	0
90°	0

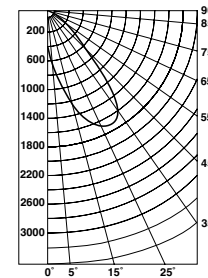


WIDE FLOOD PHOTOMETRIC REPORT

Test Report: PT10140907R
Catalog No: AX2SQ A 12LM 30K
 80CRI 45D FPC 120
 2SQAPIN BD
 (Aim at 30°)

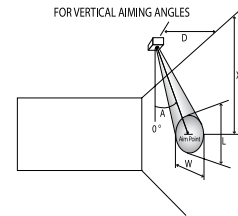
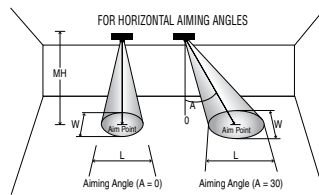
Watts: 14.8
Lumens: 781
Luminaire LPW: 53

Vertical Degrees	Candela
0°	418
5°	680
10°	981
15°	1260
20°	1476
25°	1637
30°	1708
35°	1605
40°	1238
45°	692
50°	338
55°	200
60°	24
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

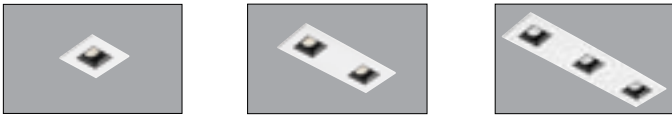


CBCP - Centerbeam candlepower
FC - Footcandles at beam center (aim point)

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
SP	18°	6784	4	424	1.3	1.3	275	1.7	1.5	2	212	3.5	2.7	1.3	450	2.4	1.6	1.0
			6	188	1.9	1.9	122	2.6	2.2	3	94	5.2	4.1	1.9	200	3.6	2.4	1.5
			8	106	2.5	2.5	69	3.4	2.9	4	53	6.9	5.5	2.5	113	4.8	3.2	2.0
			10	68	3.2	3.2	44	4.3	3.7	5	34	8.7	6.9	3.2	72	6.0	4.0	2.5
			12	47	3.8	3.8	31	5.1	4.4	6	24	10.4	8.2	3.8	50	7.2	4.8	3.0
NFL	24°	4636	4	290	1.7	1.7	188	2.3	2.0	2	145	3.5	3.9	1.7	308	2.4	2.2	1.3
			6	129	2.6	2.6	84	3.5	2.9	3	64	5.2	5.9	2.6	137	3.6	3.3	2.0
			8	72	3.4	3.4	47	4.6	3.9	4	36	6.9	7.9	3.4	77	4.8	4.4	2.6
			10	46	4.3	4.3	30	5.8	4.9	5	23	8.7	9.8	4.3	49	6.0	5.5	3.3
FL	35°	2598	4	162	2.5	2.5	105	3.5	2.9	2	81	3.5	7.2	2.5	172	2.4	3.6	2.0
			6	72	3.8	3.8	47	5.2	4.4	3	36	5.2	10.8	3.8	77	3.6	5.3	2.9
			8	41	5.0	5.0	26	7.0	5.8	4	20	6.9	14.4	5.0	43	4.8	7.1	3.9
			10	26	6.3	6.3	17	8.7	7.3	5	13	8.7	18.0	6.3	28	6.0	8.9	4.9
WFL	45°	1708	4	107	3.3	3.3	69	4.7	3.8	2	53	3.5	13.7	3.3	113	2.4	5.3	2.6
			6	47	5.0	5.0	31	7.0	5.7	3	24	5.2	20.5	5.0	50	3.6	8.0	3.9
			8	27	6.6	6.6	17	9.4	7.7	4	13	6.9	27.3	6.6	28	4.8	10.6	5.2
			10	17	8.3	8.3	11	11.7	9.6	5	9	8.7	34.1	8.3	18	6.0	13.3	6.4
12	12	9.9	9.9	8	14.1	11.5	6	6	10.4	41.0	9.9	13	7.2	15.9	7.7			



2" LED RECESSED MULTIPLE

800/1200 LUMEN

NEW CONSTRUCTION 1/2/3 HEAD

2SQAPIN / 2SQ2APIN / 2SQ3APIN

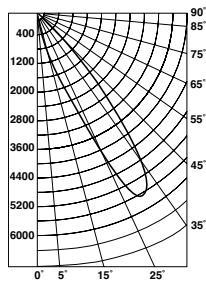
Trim with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report: PT10140902R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 18D FPC 120
 2SQAPIN BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 758
 Luminaire LPW: 51



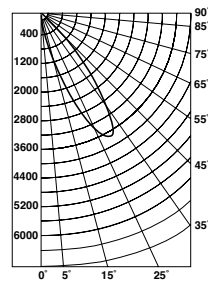
Candlepower Distribution (Candelas)

Degrees	Vertical Candelas
0°	84
5°	149
10°	363
15°	945
20°	2137
25°	4221
30°	5611
35°	4853
40°	2565
45°	884
50°	253
55°	70
60°	20
65°	5
70°	1
75°	0
80°	0
85°	1
90°	7

NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PT10140904R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 18D FPC 120
 2SQAPIN BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 682
 Luminaire LPW: 46



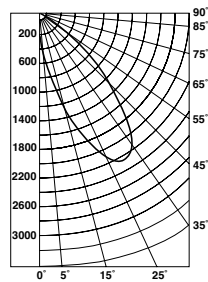
Candlepower Distribution (Candelas)

Degrees	Vertical Candelas
0°	107
5°	229
10°	515
15°	1102
20°	2106
25°	3259
30°	3736
35°	3034
40°	1789
45°	802
50°	252
55°	70
60°	22
65°	6
70°	1
75°	0
80°	0
85°	2
90°	8

FLOOD PHOTOMETRIC REPORT

Test Report: PT10140906R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 18D FPC 120
 2SQAPIN BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 843
 Luminaire LPW: 57



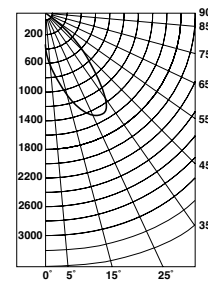
Candlepower Distribution (Candelas)

Degrees	Vertical Candelas
0°	213
5°	459
10°	858
15°	1366
20°	1831
25°	2141
30°	2270
35°	2181
40°	1823
45°	1296
50°	692
55°	312
60°	109
65°	13
70°	1
75°	0
80°	0
85°	2
90°	8

WIDE FLOOD PHOTOMETRIC REPORT

Test Report: PT10140908R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 18D FPC 120
 2SQAPIN BD WET
 (Aim at 30°)

Watts: 14.8
 Lumens: 692
 Luminaire LPW: 47

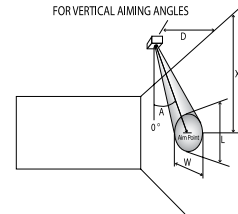
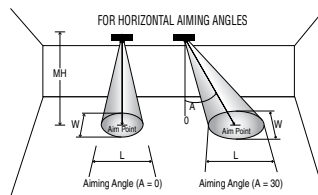


Candlepower Distribution (Candelas)

Degrees	Vertical Candelas
0°	371
5°	609
10°	874
15°	1116
20°	1305
25°	1441
30°	1482
35°	1378
40°	1063
45°	626
50°	310
55°	166
60°	43
65°	3
70°	0
75°	0
80°	0
85°	3
90°	12

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
SP	18°	5611	4	351	1.3	1.3	228	1.7	1.5	2	175	3.5	2.7	1.3	373	2.4	1.6	1.0
			6	156	1.9	1.9	101	2.6	2.2	3	78	5.2	4.1	1.9	166	3.6	2.4	1.5
			8	88	2.5	2.5	57	3.4	2.9	4	44	6.9	5.5	2.5	93	4.8	3.2	2.0
			10	56	3.2	3.2	36	4.3	3.7	5	28	8.7	6.9	3.2	60	6.0	4.0	2.5
			12	39	3.8	3.8	25	5.1	4.4	6	19	10.4	8.2	3.8	41	7.2	4.8	3.0
NFL	24°	3736	4	234	1.7	1.7	152	2.3	2.0	2	117	3.5	3.9	1.7	248	2.4	2.2	1.3
			6	104	2.6	2.6	67	3.5	2.9	3	52	5.2	5.9	2.6	110	3.6	3.3	2.0
			8	58	3.4	3.4	38	4.6	3.9	4	29	6.9	7.9	3.4	62	4.8	4.4	2.6
			10	37	4.3	4.3	24	5.8	4.9	5	19	8.7	9.8	4.3	40	6.0	5.5	3.3
			12	26	5.1	5.1	17	6.9	5.9	6	13	10.4	11.8	5.1	28	7.2	6.6	4.0
FL	35°	2270	4	142	2.5	2.5	92	3.5	2.9	2	71	3.5	7.2	2.5	151	2.4	3.6	2.0
			6	63	3.8	3.8	41	5.2	4.4	3	32	5.2	10.8	3.8	67	3.6	5.3	2.9
			8	35	5.0	5.0	23	7.0	5.8	4	18	6.9	14.4	5.0	38	4.8	7.1	3.9
			10	23	6.3	6.3	15	8.7	7.3	5	11	8.7	18.0	6.3	24	6.0	8.9	4.9
			12	16	7.6	7.6	10	10.4	8.7	6	8	10.4	21.6	7.6	17	7.2	10.7	5.9
WFL	45°	1482	4	93	3.3	3.3	60	4.7	3.8	2	46	3.5	13.7	3.3	98	2.4	5.3	2.6
			6	41	5.0	5.0	27	7.0	5.7	3	21	5.2	20.5	5.0	44	3.6	8.0	3.9
			8	23	6.6	6.6	15	9.4	7.7	4	12	6.9	27.3	6.6	25	4.8	10.6	5.2
			10	15	8.3	8.3	10	11.7	9.6	5	7	8.7	34.1	8.3	16	6.0	13.3	6.4
			12	10	9.9	9.9	7	14.1	11.5	6	5	10.4	41.0	9.9	11	7.2	15.9	7.7



2" LED RECESSED MULTIPLE

800/1200 LUMEN

NEW CONSTRUCTION 1/2/3 HEAD

2SQASC / 2SQ2ASC / 2SQ3ASC

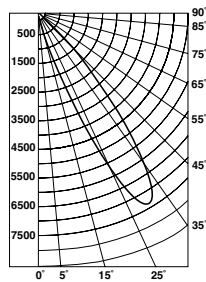
Trim

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report: PT10140909R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 18D FPC 120
 2SQASC BD
 (Aim at 30°)

Watts: 14.8
 Lumens: 920
 Luminaire LPW: 62



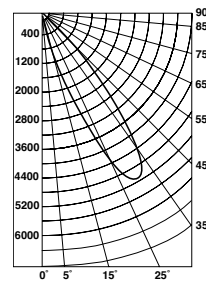
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	5
5°	28
10°	112
15°	705
20°	2221
25°	5771
30°	7406
35°	6243
40°	3000
45°	1100
50°	285
55°	80
60°	29
65°	11
70°	4
75°	1
80°	1
85°	1
90°	1

NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PT10140910R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 24D FPC 120
 2SQASC BD
 (Aim at 30°)

Watts: 14.8
 Lumens: 856
 Luminaire LPW: 58



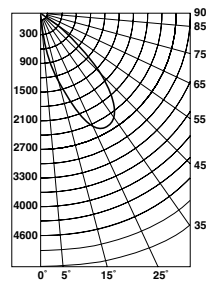
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	10
5°	48
10°	213
15°	859
20°	2213
25°	4182
30°	5192
35°	4422
40°	2699
45°	1181
50°	418
55°	120
60°	39
65°	16
70°	5
75°	1
80°	1
85°	1
90°	1

FLOOD PHOTOMETRIC REPORT

Test Report: PT10141001R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 35D FPC 120
 2SQASC BD
 (Aim at 30°)

Watts: 14.8
 Lumens: 926
 Luminaire LPW: 63



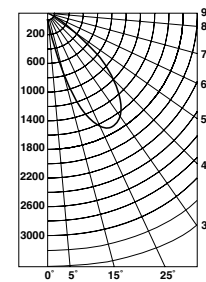
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	7
5°	220
10°	631
15°	1387
20°	2093
25°	2495
30°	2608
35°	2529
40°	2202
45°	1679
50°	1005
55°	373
60°	121
65°	31
70°	5
75°	1
80°	1
85°	1
90°	1

WIDE FLOOD PHOTOMETRIC REPORT

Test Report: PT10141002R
 Catalog No: AX2SQ A 12LM 30K
 80CRI 45D FPC 120
 2SQASC BD
 (Aim at 30°)

Watts: 14.8
 Lumens: 755
 Luminaire LPW: 51

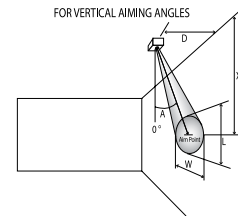
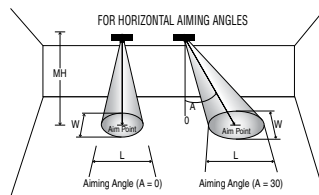


Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	4
5°	118
10°	338
15°	707
20°	1362
25°	1614
30°	1704
35°	1649
40°	1471
45°	1225
50°	851
55°	368
60°	182
65°	96
70°	6
75°	2
80°	2
85°	2
90°	1

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
SP	18°	7406	4	463	1.3	1.3	301	1.7	1.5	2	231	3.5	2.7	1.3	492	2.4	1.6	1.0
			6	206	1.9	1.9	134	2.6	2.2	3	103	5.2	4.1	1.9	219	3.6	2.4	1.5
			8	116	2.5	2.5	75	3.4	2.9	4	58	6.9	5.5	2.5	123	4.8	3.2	2.0
			10	74	3.2	3.2	48	4.3	3.7	5	37	8.7	6.9	3.2	79	6.0	4.0	2.5
			12	51	3.8	3.8	33	5.1	4.4	6	26	10.4	8.2	3.8	55	7.2	4.8	3.0
NFL	24°	5192	4	325	1.7	1.7	211	2.3	2.0	2	162	3.5	3.9	1.7	345	2.4	2.2	1.3
			6	144	2.6	2.6	94	3.5	2.9	3	72	5.2	5.9	2.6	153	3.6	3.3	2.0
			8	81	3.4	3.4	53	4.6	3.9	4	41	6.9	7.9	3.4	86	4.8	4.4	2.6
			10	52	4.3	4.3	34	5.8	4.9	5	26	8.7	9.8	4.3	55	6.0	5.5	3.3
			12	36	5.1	5.1	23	6.9	5.9	6	18	10.4	11.8	5.1	38	7.2	6.6	4.0
FL	35°	2608	4	163	2.5	2.5	106	3.5	2.9	2	82	3.5	7.2	2.5	173	2.4	3.6	2.0
			6	72	3.8	3.8	47	5.2	4.4	3	36	5.2	10.8	3.8	77	3.6	5.3	2.9
			8	41	5.0	5.0	26	7.0	5.8	4	20	6.9	14.4	5.0	43	4.8	7.1	3.9
			10	26	6.3	6.3	17	8.7	7.3	5	13	8.7	18.0	6.3	28	6.0	8.9	4.9
			12	18	7.6	7.6	12	10.4	8.7	6	9	10.4	21.6	7.6	19	7.2	10.7	5.9
WFL	45°	1704	4	107	3.3	3.3	69	4.7	3.8	2	53	3.5	13.7	3.3	113	2.4	5.3	2.6
			6	47	5.0	5.0	31	7.0	5.7	3	24	5.2	20.5	5.0	50	3.6	8.0	3.9
			8	27	6.6	6.6	17	9.4	7.7	4	13	6.9	27.3	6.6	28	4.8	10.6	5.2
			10	17	8.3	8.3	11	11.7	9.6	5	9	8.7	34.1	8.3	18	6.0	13.3	6.4
			12	12	9.9	9.9	8	14.1	11.5	6	6	10.4	41.0	9.9	13	7.2	15.9	7.7