

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 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.

Trims Style Self Flanged and Flangeless styles (drywall only) are available

LED Driver Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • Compatible with most incandescent and electronic low voltage dimmers or 0-10V dimmers • For a list of compatible dimmers, refer to [ACULUXLED2-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 damp locations. Wet location listed with certain trims • ENERGY STAR® Certified with select color temperatures and trims • 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.

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

**2" LED UNIVERSAL RECESSED
 ADJUSTABLE/DOWNLIGHT/WALL WASH**



800/1200 LUMEN
 SQUARE APERTURE
 REMODEL
AX2SQ AR



AX2SQ AR

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 AR 08LM 30K 80CRI 24D FPC 120 25QA W SF

Series / Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ¹	Options
AX2SQ AR Remodel Universal ADJ/DL/WW	08LM 800 Lumens	27K 2700K	80CRI	18D 18° beam	FPC Phase cut dimming, 5% dim	120	NLIGHT ² nLight dimming pack controls
	12LM 1200 Lumens	30K 3000K	90CRI ⁶	24D 24° beam	ZT 0-10V Dimming, 10% dim		
		35K 3500K		35D 35° beam			
		40K 4000K		45D 45° beam			
						MVOLT (120-277)	

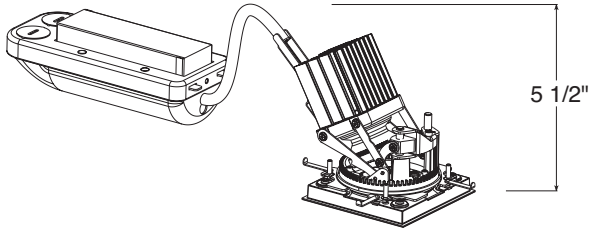
Square Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
ADJUSTABLE ACCENT	BD Black Diffuse	SELF FLANGED	WET Wet location	SELF-FLANGED
25QA Square Angle-Cut Reflector	CD ⁴ Clear Diffuse	SF ⁴ Flange is same finish as reflector		Ceiling ≤ .75"
25QABV Square Bevel	W ⁴ White Paint	WHSF White, flanged		CTA25Q/120 Ceiling 0.75" - 1.20"
25QAPIN Square Pinhole, 1 1/4"	WTD ⁴ Wheat Diffuse	BLSF ³ Black, flanged		CTA25Q/150 Ceiling 1.20" - 1.5"
25QASC Square Scoop		FLANGELESS ³		FLANGELESS, GYPSUM
DOWNLIGHT		FM ⁴ Flangeless		FMA25QR Ceiling 0.5" - 1.5"
25QD Square Reflector		WHFM ³ Flangeless, White trim		
25QDBV Square Bevel		BLFM ³ Flangeless, Black trim		
25QDPIN Square Pinhole, 1 1/4"				
WALL WASH				
25QWW ⁷ Architectural Wall Wash				

Ordering Notes
¹ MVOLT standard on ZT. 120 standard on FPC. ⁴ Available only on 25QA, 25QD, 25QWW. ⁷ Must Specify 35D with 25QWW.
² NLIGHT compatible with ZT only. ³ Flangeless trims in drywall ceiling must be specified with Flangeless ceiling installation (FMA25QR).
³ Available only on 25QDBV, 25QABV, 25QAPIN, 25QDIN, 25QASC. ⁶ Available on 27K and 30K only.

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL AX2SQ AR

DIMENSIONS

REMODEL



AX2SQ AR

Trim Style	Cutout Size
Self Flanged Trims	3.044" x 3.044"
Flangeless Trims (Drywall Ceiling)	3.044" x 3.044"

ELECTRICAL DATA

Lumen Package	08LM			12LM		
	FPC	ZT		FPC	ZT	
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

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)
EMI20	20W Emergency Lighting Inverter

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

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

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL AX2SQ AR

TRIM SELECTION

ADJUSTABLE ACCENT

25QA Square Angle-Cut Reflector



Self-Flanged

Aperture : 1 3/4"



Flangeless



	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	18D, 24D, 35D, 45D
	Trim Finish:	CD, WTD, BD, W

25QABV Square Adjustable Bevel



Self-Flanged

Aperture : 1 3/4"



Flangeless



	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	18D, 24D, 35D
	Trim Finish:	BD

25QAPIN Square Adjustable Pinhole



Self-Flanged

Aperture : 1 1/4"



Flangeless



	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	18D, 24D, 35D
	Trim Finish:	BD

25QASC Square Adjustable Scoop



Self-Flanged

Aperture : 1 3/4"

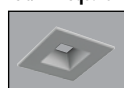


Flangeless

	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	18D, 24D, 35D, 45D
	Finish:	BD

DOWNLIGHT TRIMS

25QD Square Downlight Reflector



Self-Flanged

Aperture : 1 3/4"



Flangeless



	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	18D, 24D, 35D, 45D
	Trim Finish:	CD, WTD, BD, W

25QDBV Square Downlight Bevel



Self-Flanged

Aperture : 1 3/4"



Flangeless



	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	18D, 24D, 35D
	Finish:	BD

25QDPIN Square Downlight Pinhole



Self-Flanged

Aperture : 1 1/4"



Flangeless



	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	18D, 24D, 35D
	Finish:	BD

WALL WASH

25QWW Square Architectural Wall Wash



Self-Flanged

Aperture : 1 3/4"



Flangeless



* With WET option

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQA Trim

2SQA Square Angle-Cut Reflector



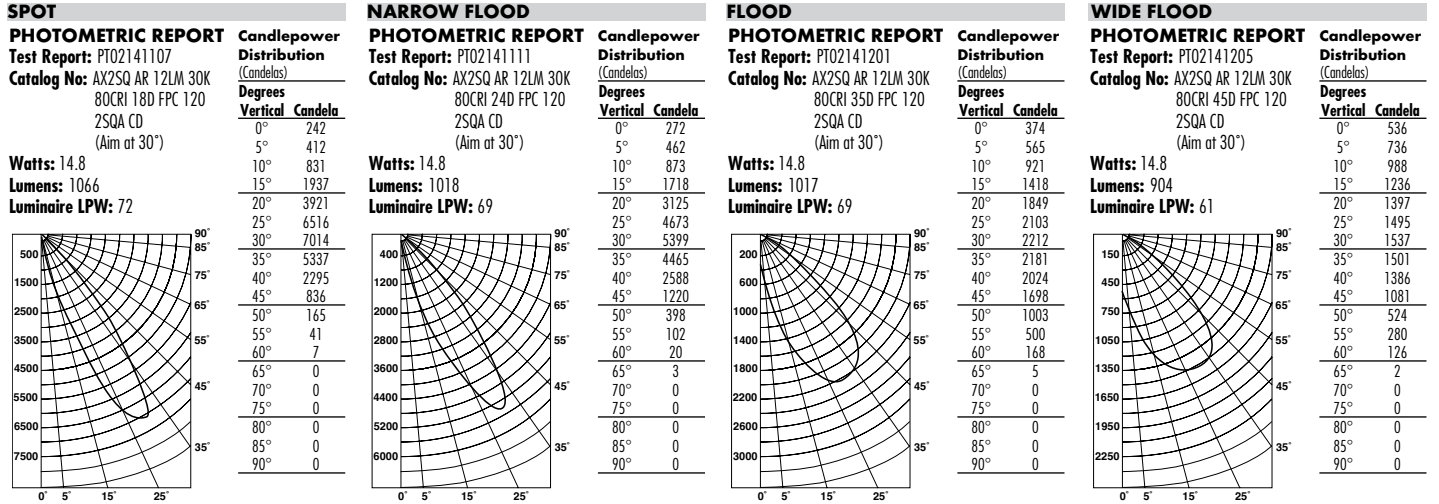
Self-Flanged



Flangeless

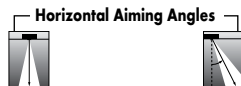
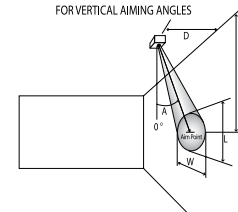
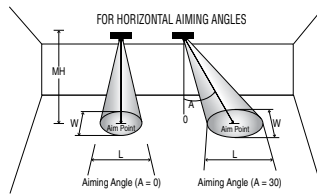


PHOTOMETRICS



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°	7014	4	438	1.3	1.3	285	1.7	1.5	2	219	3.5	2.7	1.3	466	2.4	1.6	1.0
			6	195	1.9	1.9	127	2.6	2.2	3	97	5.2	4.1	1.9	207	3.6	2.4	1.5
			8	110	2.5	2.5	71	3.4	2.9	4	55	6.9	5.5	2.5	116	4.8	3.2	2.0
			10	70	3.2	3.2	46	4.3	3.7	5	35	8.7	6.9	3.2	75	6.0	4.0	2.5
			12	49	3.8	3.8	32	5.1	4.4	6	24	10.4	8.2	3.8	52	7.2	4.8	3.0
NFL	24°	5399	4	337	1.7	1.7	219	2.3	2.0	2	169	3.5	3.9	1.7	358	2.4	2.2	1.3
			6	150	2.6	2.6	97	3.5	2.9	3	75	5.2	5.9	2.6	159	3.6	3.3	2.0
			8	84	3.4	3.4	55	4.6	3.9	4	42	6.9	7.9	3.4	90	4.8	4.4	2.6
			10	54	4.3	4.3	35	5.8	4.9	5	27	8.7	9.8	4.3	57	6.0	5.5	3.3
			12	37	5.1	5.1	24	6.9	5.9	6	19	10.4	11.8	5.1	40	7.2	6.6	4.0
FL	35°	2212	4	138	2.5	2.5	90	3.5	2.9	2	69	3.5	7.2	2.5	147	2.4	3.6	2.0
			6	61	3.8	3.8	40	5.2	4.4	3	31	5.2	10.8	3.8	65	3.6	5.3	2.9
			8	35	5.0	5.0	22	7.0	5.8	4	17	6.9	14.4	5.0	37	4.8	7.1	3.9
			10	22	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	8	10.4	21.6	7.6	16	7.2	10.7	5.9
WFL	45°	1537	4	96	3.3	3.3	62	4.7	3.8	2	49	3.5	13.7	3.3	102	2.4	5.3	2.6
			6	43	5.0	5.0	28	7.0	5.7	3	21	5.2	20.5	5.0	45	3.6	8.0	3.9
			8	24	6.6	6.6	16	9.4	7.7	4	12	6.9	27.3	6.6	26	4.8	10.6	5.2
			10	15	8.3	8.3	10	11.7	9.6	5	8	8.7	34.1	8.3	16	6.0	13.3	6.4
			12	11	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 UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQA Trim with WET option

2SQA Square Angle-Cut Reflector



Self-Flanged

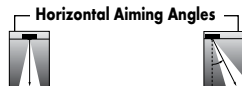
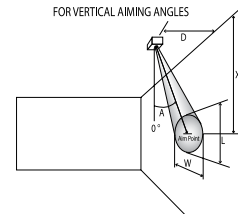
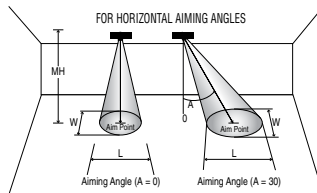
Flangeless

PHOTOMETRICS

SPOT		NARROW FLOOD		FLOOD		WIDE FLOOD	
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Test Report: PTO2141109		Test Report: PTO2141113		Test Report: PTO2141203		Test Report: PTO2141207	
Catalog No: AX2SQ AR 12LM 30K		Catalog No: AX2SQ AR 12LM 30K		Catalog No: AX2SQ AR 12LM 30K		Catalog No: AX2SQ AR 12LM 30K	
80CRI 18D FPC 120		80CRI 24D FPC 120		80CRI 35D FPC 120		80CRI 45D FPC 120	
2SQA CD WET		2SQA CD WET		2SQA CD WET		2SQA CD WET	
(Aim at 30°)		(Aim at 30°)		(Aim at 30°)		(Aim at 30°)	
Watts: 14.8	Candlepower Distribution (Candelas)	Watts: 14.8	Candlepower Distribution (Candelas)	Watts: 14.8	Candlepower Distribution (Candelas)	Watts: 14.8	Candlepower Distribution (Candelas)
Lumens: 932	Degrees	Lumens: 874	Degrees	Lumens: 865	Degrees	Lumens: 753	Degrees
Luminaire LPW: 63	Vertical Candela	Luminaire LPW: 59	Vertical Candela	Luminaire LPW: 58	Vertical Candela	Luminaire LPW: 51	Vertical Candela
	0° 396		0° 385		0° 411		0° 427
	5° 621		5° 586		5° 555		5° 573
	10° 1005		10° 904		10° 755		10° 725
	15° 1548		15° 1335		15° 992		15° 875
	20° 2176		20° 1818		20° 1218		20° 1000
	25° 2667		25° 2205		25° 1390		25° 1083
	30° 2747		30° 2310		30° 1470		30° 1111
	35° 2308		35° 2041		35° 1439		35° 1072
	40° 1547		40° 1466		40° 1281		40° 960
	45° 883		45° 906		45° 999		45° 745
	50° 424		50° 489		50° 663		50° 482
	55° 175		55° 233		55° 382		55° 266
	60° 66		60° 99		60° 190		60° 126
	65° 23		65° 35		65° 63		65° 40
	70° 6		70° 9		70° 7		70° 7
	75° 1		75° 1		75° 0		75° 1
	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)

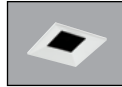
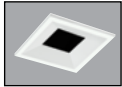
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			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	18°	2746	4	172	1.3	1.3	111	1.7	1.5	2	86	3.5	2.7	1.3	182	2.4	1.6	1.0
			6	76	1.9	1.9	50	2.6	2.2	3	38	5.2	4.1	1.9	81	3.6	2.4	1.5
			8	43	2.5	2.5	28	3.4	2.9	4	21	6.9	5.5	2.5	46	4.8	3.2	2.0
			10	27	3.2	3.2	18	4.3	3.7	5	14	8.7	6.9	3.2	29	6.0	4.0	2.5
			12	19	3.8	3.8	12	5.1	4.4	6	10	10.4	8.2	3.8	20	7.2	4.9	3.0
NFL	24°	2310	4	144	1.7	1.7	91	2.3	2.0	2	72	3.5	3.9	1.7	153	2.4	2.2	1.3
			6	64	2.6	2.6	42	3.5	2.9	3	32	5.2	5.9	2.6	68	3.6	3.3	2.0
			8	36	3.4	3.4	23	4.6	3.9	4	18	6.9	7.9	3.4	38	4.8	4.4	2.6
			10	23	4.3	4.3	15	5.8	4.9	5	12	8.7	9.8	4.3	25	6.0	5.5	3.3
			12	16	5.1	5.1	10	6.9	5.9	6	8	10.4	11.8	5.1	17	7.2	6.6	4.0
FL	35°	1469	4	92	2.5	2.5	60	3.5	2.9	2	46	3.5	7.2	2.5	98	2.4	3.6	2.0
			6	41	3.8	3.8	27	5.2	4.4	3	20	5.2	10.8	3.8	43	3.6	5.3	2.9
			8	23	5.0	5.0	15	7.0	5.8	4	11	6.9	14.4	5.0	24	4.8	7.1	3.9
			10	15	6.3	6.3	10	8.7	7.3	5	7	8.7	18.0	6.3	16	6.0	8.9	4.9
			12	10	7.6	7.6	7	10.4	8.7	6	5	10.4	21.6	7.6	11	7.2	10.7	5.9
WFL	45°	1111	4	69	3.3	3.3	45	4.7	3.8	2	35	3.5	13.7	3.3	74	2.4	5.3	2.6
			6	31	5.0	5.0	20	7.0	5.7	3	15	5.2	20.5	5.0	33	3.6	8.0	3.9
			8	17	6.6	6.6	11	9.4	7.7	4	9	6.9	27.3	6.6	18	4.8	10.6	5.2
			10	11	8.3	8.3	7	11.7	9.6	5	6	8.7	34.1	8.3	12	6.0	13.3	6.4
			12	8	9.9	9.9	5	14.1	11.5	6	4	10.4	41.0	9.9	8	7.2	15.9	7.7

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQABV

2SQABV Square Adjustable Bevel



Self-Flanged

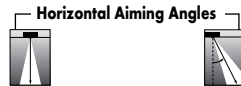
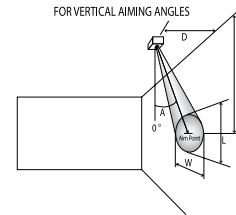
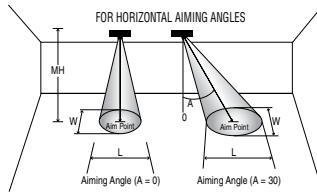
Flangeless

PHOTOMETRICS

SPOT		NARROW FLOOD		FLOOD		WIDE FLOOD																																																																																																																																																																	
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Luminaire LPW: 73		Luminaire LPW: 68		Luminaire LPW: 67		Luminaire LPW: 57																																																																																																																																																																	
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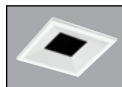
CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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

2SQABV Square Adjustable Bevel



Self-Flanged

Flangeless

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQABV with WET option

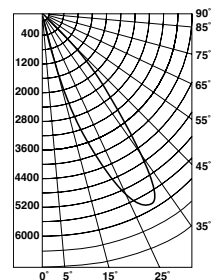
PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report: PT02141110
Catalog No: AX2SQ AR 12LM 30K
80CRI 18D FPC 120
2SQABV BD WET
(Aim at 30°)

Watts: 14.8
Lumens: 958
Luminaire LPW: 65



Candlepower Distribution

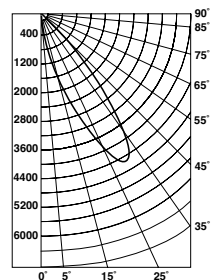
Degrees Vertical	Candela
0°	120
5°	235
10°	592
15°	1571
20°	3317
25°	5459
30°	5985
35°	4589
40°	2341
45°	941
50°	340
55°	109
60°	34
65°	10
70°	2
75°	0
80°	0
85°	0
90°	0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT02141114
Catalog No: AX2SQ AR 12LM 30K
80CRI 24D FPC 120
2SQABV BD WET
(Aim at 30°)

Watts: 14.8
Lumens: 884
Luminaire LPW: 60



Candlepower Distribution

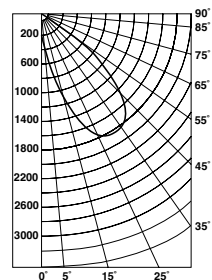
Degrees Vertical	Candela
0°	140
5°	280
10°	627
15°	1373
20°	2571
25°	3929
30°	4528
35°	3783
40°	2371
45°	1193
50°	499
55°	177
60°	60
65°	18
70°	4
75°	0
80°	0
85°	0
90°	0

FLOOD

PHOTOMETRIC REPORT

Test Report: PT02141204
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQABV BD WET
(Aim at 30°)

Watts: 14.8
Lumens: 870
Luminaire LPW: 59



Candlepower Distribution

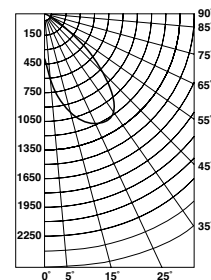
Degrees Vertical	Candela
0°	203
5°	384
10°	710
15°	1135
20°	1515
25°	1751
30°	1857
35°	1846
40°	1728
45°	1451
50°	1009
55°	547
60°	246
65°	88
70°	13
75°	0
80°	0
85°	0
90°	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report: PT02141208
Catalog No: AX2SQ AR 12LM 30K
80CRI 45D FPC 120
2SQABV BD WET
(Aim at 30°)

Watts: 14.8
Lumens: 741
Luminaire LPW: 50

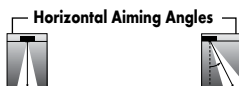
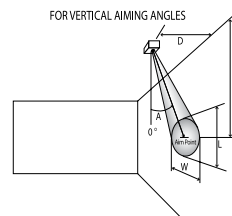
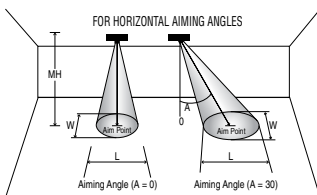


Candlepower Distribution

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

2SQAPIN Square Adjustable Pinhole



Self-Flanged



Flangeless

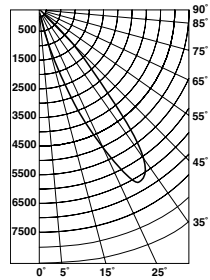
2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQAPIN

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

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

Watts: 14.8
Lumens: 847
Luminaire LPW: 57



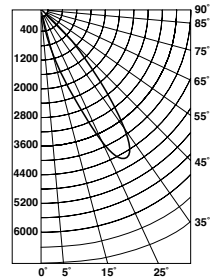
Candlepower Distribution (Candelas)

Vertical	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 AR 12LM 30K
80CRI 24D FPC 120
2SQAPIN BD
(Aim at 30°)

Watts: 14.8
Lumens: 777
Luminaire LPW: 53



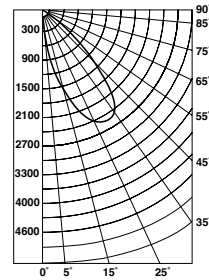
Candlepower Distribution (Candelas)

Vertical	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 AR 12LM 30K
80CRI 35D FPC 120
2SQAPIN BD
(Aim at 30°)

Watts: 14.8
Lumens: 944
Luminaire LPW: 64



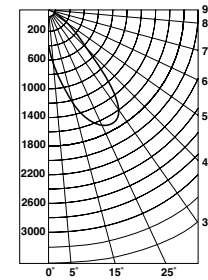
Candlepower Distribution (Candelas)

Vertical	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 AR 12LM 30K
80CRI 45D FPC 120
2SQAPIN BD
(Aim at 30°)

Watts: 14.8
Lumens: 781
Luminaire LPW: 53

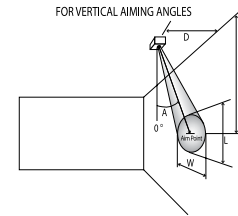
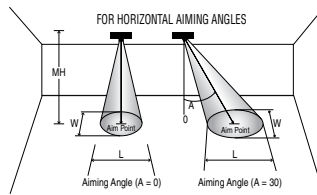


Candlepower Distribution (Candelas)

Vertical	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
			12	32	5.1	5.1	21	6.9	5.9	6	16	10.4	11.8	5.1	34	7.2	6.6	4.0
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
			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°	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

2SQAPIN Square Adjustable Pinhole



Self-Flanged

Flangeless

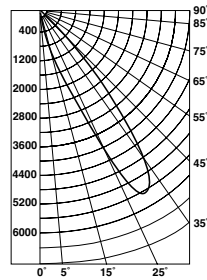
2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQAPIN with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

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

Watts: 14.8
Lumens: 758
Luminaire LPW: 51



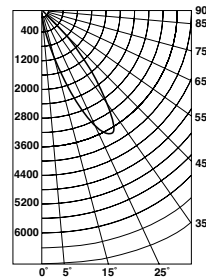
Candlepower Distribution

Vertical	Candela
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 AR 12LM 30K
80CRI 18D FPC 120
2SQAPIN BD WET
(Aim at 30°)

Watts: 14.8
Lumens: 682
Luminaire LPW: 46



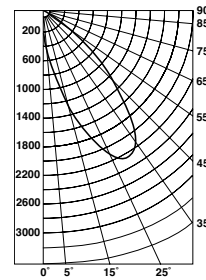
Candlepower Distribution

Vertical	Candela
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 AR 12LM 30K
80CRI 18D FPC 120
2SQAPIN BD WET
(Aim at 30°)

Watts: 14.8
Lumens: 843
Luminaire LPW: 57



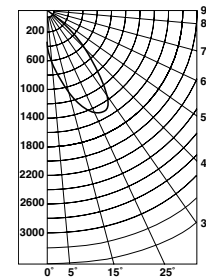
Candlepower Distribution

Vertical	Candela
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 AR 12LM 30K
80CRI 18D FPC 120
2SQAPIN BD WET
(Aim at 30°)

Watts: 14.8
Lumens: 692
Luminaire LPW: 47

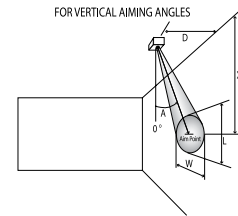
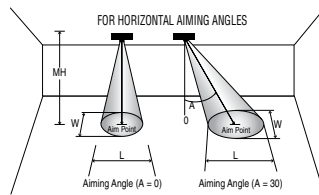


Candlepower Distribution

Vertical	Candela
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)

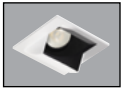
In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



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 UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQASC

2SQASC Square Adjustable Scoop



Self-Flanged



Flangeless

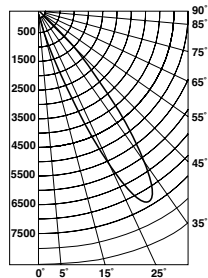


PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

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

Watts: 14.8
Lumens: 920
Luminaire LPW: 62

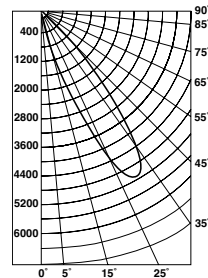


Vertical	Candela
0°	5
5°	28
10°	112
15°	705
20°	2221
25°	5771
30°	7406
35°	6243
40°	3000
45°	1100
50°	285
55°	80
60°	29
65°	11
70°	4
75°	1
80°	1
85°	1
90°	1

NARROW FLOOD PHOTOMETRIC REPORT

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

Watts: 14.8
Lumens: 856
Luminaire LPW: 58

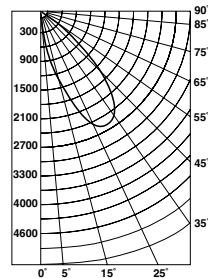


Vertical	Candela
0°	10
5°	48
10°	213
15°	859
20°	2213
25°	4182
30°	5192
35°	4422
40°	2699
45°	1181
50°	418
55°	120
60°	39
65°	16
70°	5
75°	1
80°	1
85°	1
90°	1

FLOOD PHOTOMETRIC REPORT

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

Watts: 14.8
Lumens: 926
Luminaire LPW: 63

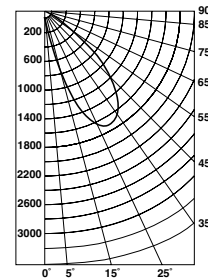


Vertical	Candela
0°	7
5°	220
10°	631
15°	1387
20°	2093
25°	2495
30°	2608
35°	2529
40°	2202
45°	1679
50°	1005
55°	373
60°	121
65°	31
70°	5
75°	1
80°	1
85°	1
90°	1

WIDE FLOOD PHOTOMETRIC REPORT

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

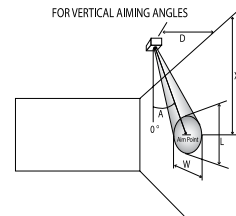
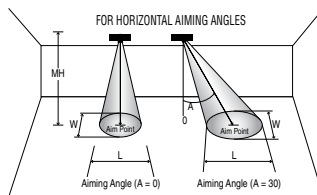
Watts: 14.8
Lumens: 755
Luminaire LPW: 51



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)

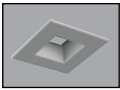
In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



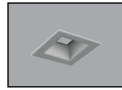
Beam Type	Beam Spread	CBCP	0°			30°			30°			40°						
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	18°	7406	4	463	1.3	1.3	301	1.7	1.5	2	231	3.5	2.7	1.3	492	2.4	1.6	1.0
			6	206	1.9	1.9	134	2.6	2.2	3	103	5.2	4.1	1.9	219	3.6	2.4	1.5
			8	116	2.5	2.5	75	3.4	2.9	4	58	6.9	5.5	2.5	123	4.8	3.2	2.0
			10	74	3.2	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
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
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

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQD

2SQD Square Downlight Reflector



Self-Flanged



Flangeless



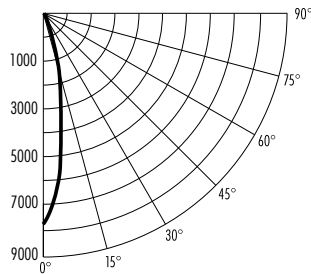
PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT02141003
Catalog No: AX2SQ AR 12LM 30K
80CRI 18D FPC 120
2SQD CD

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 72



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	7294
5	6251
15	1501
25	167
35	10
45	1
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	76	70	66
5.0'	49	45	42
6.0'	34	31	29
7.0'	27	25	24
8.0'	22	20	19
9.0'	17	15	14
10.0'	12	11	11

INITIAL FOOTCANDLES

(One Unit, 14.8W, 19.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	202.6	2.1'
8	114.0	2.8'
10	72.9	3.5'
12	50.7	4.1'

LUMINANCE (Average cd/m²)

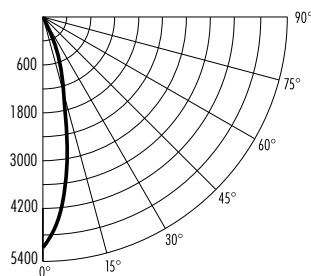
Degrees	Average Luminance
45	838
55	827
65	140
75	687
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT02141007
Catalog No: AX2SQ AR 12LM 30K
80CRI 24D FPC 120
2SQD CD

Luminaire Spacing Criterion: 0.38

Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	5339
5	4560
15	1542
25	228
35	18
45	2
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	66	63	59
5.0'	44	40	37
6.0'	30	28	26
7.0'	25	23	21
8.0'	19	18	17
9.0'	15	14	13
10.0'	11	10	9

INITIAL FOOTCANDLES

(One Unit, 14.8W, 21.9° Beam)

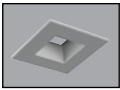
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	143.3	2.3'
8	83.4	3.1'
10	53.4	3.9'
12	37.1	4.6'

LUMINANCE (Average cd/m²)

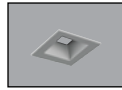
Degrees	Average Luminance
45	1257
55	827
65	561
75	229
85	680

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQD Square Downlight Reflector



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQD (continued)

PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141011

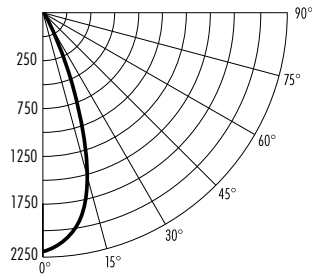
Catalog No: AX2SQ AR 12LM 30K

80CRI 35D FPC 120

2SQD CD

Luminaire Spacing Criterion: 0.66

Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	2244
5	2228
15	1641
25	507
35	46
45	2
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	68	61	56
5.0'	43	39	36
6.0'	30	27	25
7.0'	24	22	20
8.0'	19	17	16
9.0'	15	13	12
10.0'	11	10	9

INITIAL FOOTCANDLES

(One Unit, 14.8W, 39.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	62.3	4.3'
8	35.1	5.8'
10	22.4	7.2'
12	15.6	8.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1509
55	1033
65	561
75	229
85	680

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	919	95.1
0-40°	962	99.5
0-60°	965	99.9
0-90°	966	100.0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141103

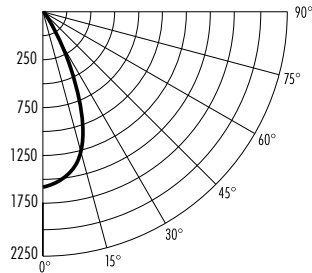
Catalog No: AX2SQ AR 12LM 30K

80CRI 45D FPC 120

2SQD CD

Luminaire Spacing Criterion: 0.74

Luminaire LPW: 55



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	1613
5	1586
15	1257
25	410
35	78
45	4
55	2
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	57	51	47
5.0'	37	33	30
6.0'	26	23	21
7.0'	21	18	17
8.0'	16	15	13
9.0'	13	11	10
10.0'	9	8	7

INITIAL FOOTCANDLES

(One Unit, 14.8W, 42.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	44.8	4.6'
8	25.2	6.2'
10	16.1	7.7'
12	11.2	9.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2682
55	1963
65	1122
75	687
85	680

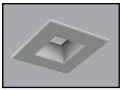
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	752	91.7
0-40°	812	99.0
0-60°	819	99.8
0-90°	820	100.0

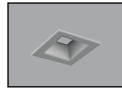
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQD with WET option

2SQD Square Downlight Reflector



Self-Flanged



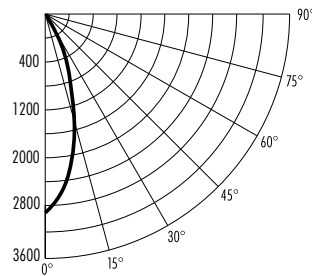
Flangeless



PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT02141004
Catalog No: AX2SQ AR 12LM 30K
80CRI 18D FPC 120
2SQD CD WET
Luminaire Spacing Criterion: 0.50
Luminaire LPW: 62



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2895
5	2648
15	1368
25	398
35	84
45	19
55	5
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	64	58	53
5.0'	41	37	34
6.0'	29	26	23
7.0'	23	21	19
8.0'	18	16	15
9.0'	14	13	11
10.0'	10	9	8

INITIAL FOOTCANDLES (One Unit, 14.8W, 29.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	80.4	3.1'
8	45.2	4.2'
10	29.0	5.2'
12	20.1	6.3'

ZONAL LUMEN SUMMARY

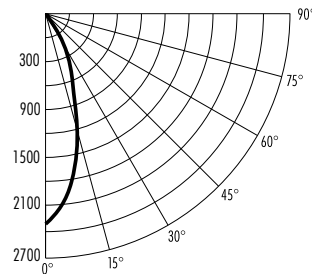
Zone	Lumens	%Fixture
0-30°	824	89.8
0-40°	892	97.2
0-60°	916	99.8
0-90°	918	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	12656
55	3926
65	1262
75	458
85	680

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT02141008
Catalog No: AX2SQ AR 12LM 30K
80CRI 24D FPC 120
2SQD CD WET
Luminaire Spacing Criterion: 0.52
Luminaire LPW: 56



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2347
5	2175
15	1218
25	398
35	90
45	20
55	5
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	58	52	47
5.0'	37	33	30
6.0'	26	23	21
7.0'	21	19	17
8.0'	17	15	13
9.0'	13	11	10
10.0'	9	8	8

INITIAL FOOTCANDLES (One Unit, 14.8W, 31.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	65.2	3.4'
8	36.7	4.5'
10	23.5	5.7'
12	16.3	6.8'

ZONAL LUMEN SUMMARY

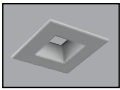
Zone	Lumens	%Fixture
0-30°	734	88.4
0-40°	804	96.8
0-60°	829	99.8
0-90°	831	100.0

LUMINANCE (Average cd/m²)

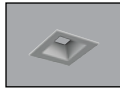
Degrees	Average Luminance
45	13494
55	3823
65	1122
75	458
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQD Square Downlight Reflector



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN

SQUARE APERTURE REMODEL

2SQD with WET option (continued)

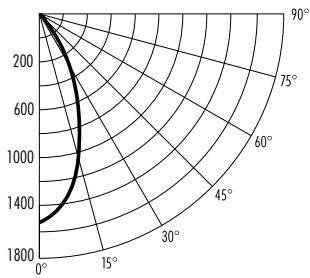
PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141012
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQD CD WET

Luminaire Spacing Criterion: 0.66
Luminaire LPW: 56



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	1556
5	1498
15	1078
25	512
35	143
45	25
55	4
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	58	51	45
5.0'	37	33	29
6.0'	26	23	20
7.0'	21	18	16
8.0'	16	15	13
9.0'	13	11	10
10.0'	9	8	7

INITIAL FOOTCANDLES (One Unit, 14.8W, 41.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	43.2	4.5'
8	24.3	6.0'
10	15.6	7.5'
12	10.8	9.0'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	679	82.4
0-40°	787	95.5
0-60°	822	99.8
0-90°	824	100.0

LUMINANCE (Average cd/m²)

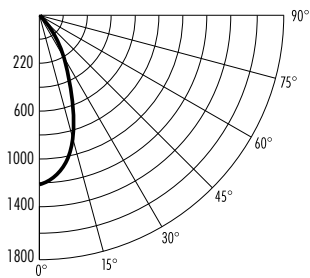
Degrees	Average Luminance
45	17014
55	3410
65	1402
75	458
85	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141104
Catalog No: AX2SQ AR 12LM 30K
80CRI 45D FPC 120
2SQD CD WET

Luminaire Spacing Criterion: 0.70
Luminaire LPW: 47



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	1213
5	1180
15	897
25	434
35	120
45	19
55	5
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	48	43	38
5.0'	31	27	24
6.0'	21	19	17
7.0'	17	15	14
8.0'	14	12	11
9.0'	11	9	8
10.0'	8	7	6

INITIAL FOOTCANDLES (One Unit, 14.8W, 43.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	33.7	4.7'
8	19.0	6.3'
10	12.1	7.9'
12	8.4	9.5'

ZONAL LUMEN SUMMARY

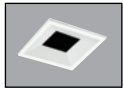
Zone	Lumens	%Fixture
0-30°	570	81.9
0-40°	664	95.4
0-60°	694	99.7
0-90°	696	100.0

LUMINANCE (Average cd/m²)

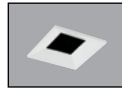
Degrees	Average Luminance
45	13075
55	4340
65	1683
75	458
85	680

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQDBV

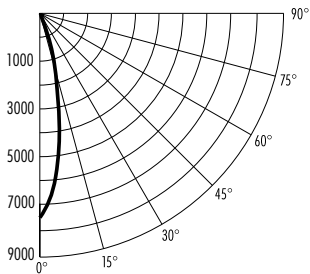
PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT02141005
Catalog No: AX2SQ AR 12LM 30K
80CRI 18D FPC 120
2SQDBV BD

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 71



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees	Candelas
Vertical	0°
0	7542
5	6407
15	1398
25	154
35	12
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	75	69	65
5.0'	48	44	42
6.0'	33	31	29
7.0'	27	25	23
8.0'	21	20	19
9.0'	16	15	14
10.0'	12	11	10

INITIAL FOOTCANDLES

(One Unit, 14.8W, 19.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	209.5	2.0'
8	117.8	2.7'
10	75.4	3.3'
12	52.4	4.0'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1403
55	576
65	0
75	852
85	0

ZONAL LUMEN SUMMARY

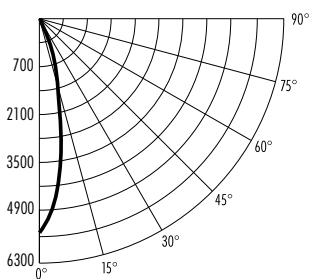
Zone	Lumens	%Fixture
0-30°	1038	98.6
0-40°	1051	99.8
0-60°	1052	100.0
0-90°	1053	100.0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT02141009
Catalog No: AX2SQ AR 12LM 30K
80CRI 24D FPC 120
2SQDBV BD

Luminaire Spacing Criterion: 0.36

Luminaire LPW: 65



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees	Candelas
Vertical	0°
0	5571
5	4774
15	1436
25	216
35	21
45	3
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	68	62	58
5.0'	43	40	37
6.0'	30	28	26
7.0'	24	22	21
8.0'	19	18	17
9.0'	15	14	13
10.0'	11	10	9

INITIAL FOOTCANDLES

(One Unit, 14.8W, 21.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	154.8	2.3'
8	87.0	3.0'
10	55.7	3.8'
12	38.7	4.5'

LUMINANCE (Average cd/m²)

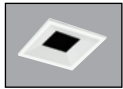
Degrees	Average Luminance
45	3429
55	769
65	1043
75	2129
85	0

ZONAL LUMEN SUMMARY

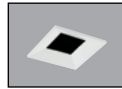
Zone	Lumens	%Fixture
0-30°	937	97.6
0-40°	956	99.6
0-60°	959	99.9
0-90°	960	100.0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQDBV (continued)

PHOTOMETRICS

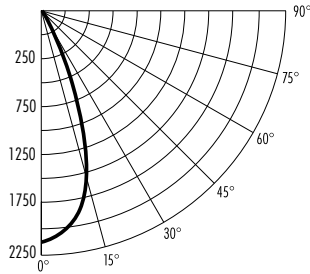
FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141101
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQDBV BD

Luminaire Spacing Criterion: 0.68

Luminaire LPW: 62



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	2118
5	2101
15	1580
25	482
35	52
45	2
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	65	58	53
5.0'	41	37	34
6.0'	29	26	24
7.0'	23	21	19
8.0'	18	17	15
9.0'	14	13	12
10.0'	10	9	8

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	873	94.7
0-40°	918	99.5
0-60°	922	99.9
0-90°	923	100.0

INITIAL FOOTCANDLES

(One Unit, 14.8W, 39.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	58.8	4.3'
8	33.1	5.8'
10	21.2	7.2'
12	14.7	8.7'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2805
55	769
65	1043
75	852
85	0

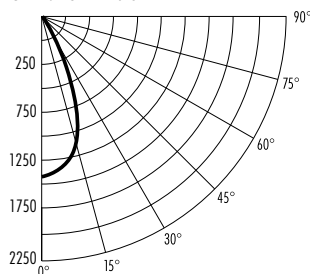
WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141105
Catalog No: AX2SQ AR 12LM 30K
80CRI 45D FPC 120
2SQDBV BD

Luminaire Spacing Criterion: 0.74

Luminaire LPW: 51



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	1424
5	1386
15	1156
25	388
35	91
45	2
55	1
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	52	47	42
5.0'	34	30	27
6.0'	23	21	19
7.0'	19	17	15
8.0'	15	13	12
9.0'	11	10	9
10.0'	8	7	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	674	89.9
0-40°	739	98.7
0-60°	748	99.8
0-90°	749	100.0

INITIAL FOOTCANDLES

(One Unit, 14.8W, 42.5° Beam)

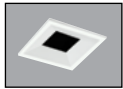
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	39.6	4.7'
8	22.3	6.2'
10	14.2	7.8'
12	9.9	9.3'

LUMINANCE (Average cd/m²)

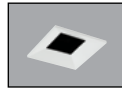
Degrees	Average Luminance
45	2338
55	1345
65	1825
75	2555
85	1264

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



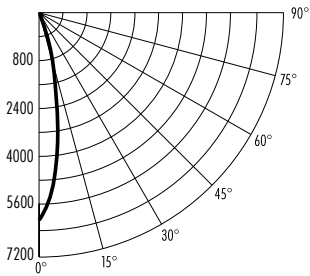
2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN

SQUARE APERTURE REMODEL 2SQDBV with WET option

PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT02141006
Catalog No: AX2SQ AR 12LM 30K
80CRI 18D FPC 120
2SQDBV BD WET
Luminaire Spacing Criterion: 0.34
Luminaire LPW: 64



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	6297
5	5305
15	1314
25	173
35	17
45	3
55	1
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	67	62	58
5.0'	43	40	37
6.0'	30	28	26
7.0'	24	22	21
8.0'	19	18	17
9.0'	15	14	13
10.0'	11	10	9

INITIAL FOOTCANDLES
(One Unit, 14.8W, 19.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	174.9	2.1'
8	98.4	2.8'
10	63.0	3.5'
12	43.7	4.1'

ZONAL LUMEN SUMMARY

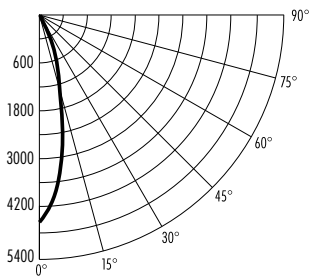
Zone	Lumens	%Fixture
0-30°	926	97.7
0-40°	942	99.4
0-60°	947	99.8
0-90°	948	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	4208
55	2113
65	1565
75	2129
85	1264

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT02141010
Catalog No: AX2SQ AR 12LM 30K
80CRI 24D FPC 120
2SQDBV BD WET
Luminaire Spacing Criterion: 0.38
Luminaire LPW: 58



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	4636
5	3997
15	1317
25	219
35	25
45	4
55	1
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	61	56	52
5.0'	39	36	33
6.0'	27	25	23
7.0'	22	20	19
8.0'	17	16	15
9.0'	13	12	11
10.0'	10	9	8

INITIAL FOOTCANDLES
(One Unit, 14.8W, 22.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	128.8	2.3'
8	72.4	3.1'
10	46.4	3.9'
12	32.2	4.7'

ZONAL LUMEN SUMMARY

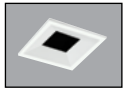
Zone	Lumens	%Fixture
0-30°	831	96.6
0-40°	853	99.2
0-60°	858	99.8
0-90°	860	100.0

LUMINANCE (Average cd/m²)

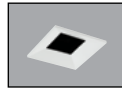
Degrees	Average Luminance
45	5143
55	2306
65	2086
75	2555
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN

SQUARE APERTURE REMODEL

2SQDBV with WET option (continued)

PHOTOMETRICS

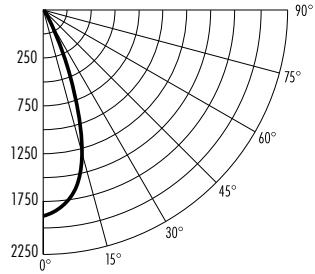
FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141102
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQDBV BD WET

Luminaire Spacing Criterion: 0.66

Luminaire LPW: 56



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1879
5	1843
15	1369
25	456
35	59
45	5
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	58	52	48
5.0'	37	33	30
6.0'	26	23	21
7.0'	21	19	17
8.0'	16	15	14
9.0'	13	11	10
10.0'	9	8	8

INITIAL FOOTCANDLES

(One Unit, 14.8W, 39.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	52.2	4.3'
8	29.4	5.7'
10	18.8	7.1'
12	13.0	8.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6546
55	2306
65	1825
75	1703
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	768	92.9
0-40°	817	98.9
0-60°	825	99.8
0-90°	827	100.0

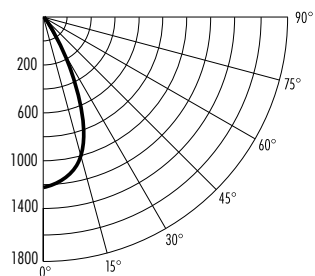
WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141106
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQDBV BD WET

Luminaire Spacing Criterion: 0.72

Luminaire LPW: 45



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1240
5	1213
15	1002
25	369
35	82
45	7
55	2
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	46	42	37
5.0'	30	27	24
6.0'	21	18	17
7.0'	17	15	13
8.0'	13	12	11
9.0'	10	9	8
10.0'	7	7	6

INITIAL FOOTCANDLES

(One Unit, 14.8W, 42.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	34.4	4.6'
8	19.4	6.2'
10	12.4	7.7'
12	8.6	9.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	8416
55	2882
65	2608
75	2555
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	587	88.4
0-40°	649	97.7
0-60°	662	99.7
0-90°	664	100.0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless

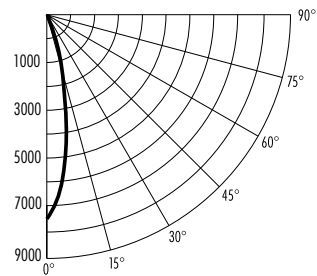


2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQDPIN

PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT02141005
Catalog No: AX2SQ AR 12LM 30K
80CRI 18D FPC 120
2SQDPIN BD
Luminaire Spacing Criterion: 0.34
Luminaire LPW: 71



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	7542
5	6407
15	1398
25	154
35	12
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	75	69	65
5.0'	48	44	42
6.0'	33	31	29
7.0'	27	25	23
8.0'	21	20	19
9.0'	16	15	14
10.0'	12	11	10

INITIAL FOOTCANDLES
(One Unit, 14.8W, 19.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	209.5	2.0'
8	117.8	2.7'
10	75.4	3.3'
12	52.4	4.0'

ZONAL LUMEN SUMMARY

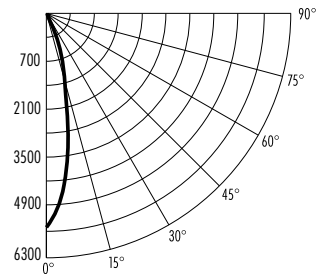
Zone	Lumens	%Fixture
0-30°	1038	98.6
0-40°	1051	99.8
0-60°	1052	100.0
0-90°	1053	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1403
55	576
65	0
75	852
85	0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT02141009
Catalog No: AX2SQ AR 12LM 30K
80CRI 24D FPC 120
2SQDPIN BD
Luminaire Spacing Criterion: 0.36
Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5571
5	4774
15	1436
25	216
35	21
45	3
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	68	62	58
5.0'	43	40	37
6.0'	30	28	26
7.0'	24	22	21
8.0'	19	18	17
9.0'	15	14	13
10.0'	11	10	9

INITIAL FOOTCANDLES
(One Unit, 14.8W, 21.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	154.8	2.3'
8	87.0	3.0'
10	55.7	3.8'
12	38.7	4.5'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	937	97.6
0-40°	956	99.6
0-60°	959	99.9
0-90°	960	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3429
55	769
65	1043
75	2129
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQDPIN (continued)

PHOTOMETRICS

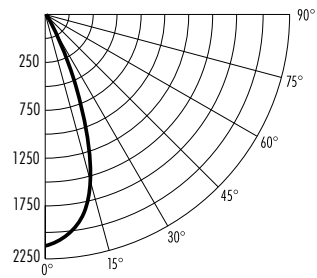
FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141101
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQDPIN BD

Luminaire Spacing Criterion: 0.68

Luminaire LPW: 62



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical 0°	0
0	2118
5	2101
15	1580
25	482
35	52
45	2
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	65	58	53
5.0'	41	37	34
6.0'	29	26	24
7.0'	23	21	19
8.0'	18	17	15
9.0'	14	13	12
10.0'	10	9	8

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	873	94.7
0-40°	918	99.5
0-60°	922	99.9
0-90°	923	100.0

INITIAL FOOTCANDLES

(One Unit, 14.8W, 39.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	58.8	4.3'
8	33.1	5.8'
10	21.2	7.2'
12	14.7	8.7'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2805
55	769
65	1043
75	852
85	0

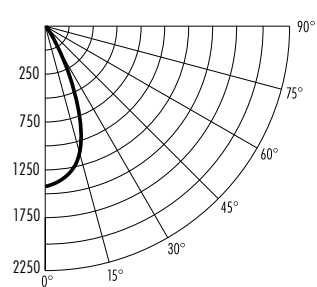
WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02141105
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQDPIN BD

Luminaire Spacing Criterion: 0.74

Luminaire LPW: 51



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical 0°	0
0	1424
5	1386
15	1156
25	388
35	91
45	2
55	1
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	52	47	42
5.0'	34	30	27
6.0'	23	21	19
7.0'	19	17	15
8.0'	15	13	12
9.0'	11	10	9
10.0'	8	7	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	674	89.9
0-40°	739	98.7
0-60°	748	99.8
0-90°	749	100.0

INITIAL FOOTCANDLES

(One Unit, 14.8W, 42.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	39.6	4.7'
8	22.3	6.2'
10	14.2	7.8'
12	9.9	9.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2338
55	1345
65	1825
75	2555
85	1264

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN

SQUARE APERTURE REMODEL

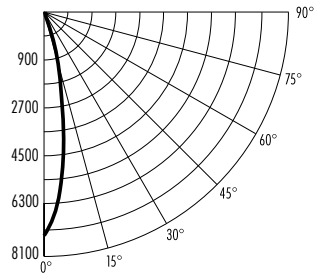
2SQDPIN with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT10140801R
Catalog No: AX2SQ AR 12LM 30K
80CRI 18D FPC 120
2SQDPIN BD WET

Luminaire Spacing Criterion: 0.30
Luminaire LPW: 56



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical 0°	0°
0	7382
5	5929
15	938
25	67
35	8
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	59	55	52
5.0'	38	35	33
6.0'	26	24	23
7.0'	21	20	19
8.0'	17	16	15
9.0'	13	12	11
10.0'	9	9	8

INITIAL FOOTCANDLES (One Unit, 14.8W, 17.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	205.1	1.8'
8	115.3	2.4'
10	73.8	3.0'
12	51.3	3.6'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	822	99.0
0-40°	829	99.8
0-60°	831	100.0
0-90°	831	100.0

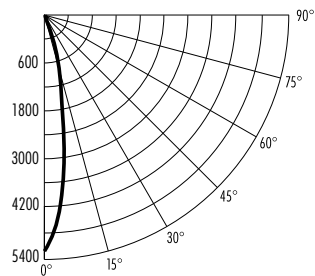
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	754
55	465
65	316
75	515
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT10140803R
Catalog No: AX2SQ AR 12LM 30K
80CRI 24D FPC 120
2SQDPIN BD WET

Luminaire Spacing Criterion: 0.34
Luminaire LPW: 51



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical 0°	0°
0	5126
5	4246
15	1076
25	101
35	14
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	53	49	46
5.0'	34	32	30
6.0'	24	22	20
7.0'	19	18	17
8.0'	15	14	13
9.0'	12	11	10
10.0'	9	8	7

INITIAL FOOTCANDLES (One Unit, 14.8W, 20.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	142.4	2.1'
8	80.1	2.8'
10	51.3	3.5'
12	35.6	4.3'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	740	98.3
0-40°	751	99.7
0-60°	752	100.0
0-90°	753	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1131
55	465
65	316
75	515
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN

SQUARE APERTURE REMODEL

2SQDPIN with WET option (continued)

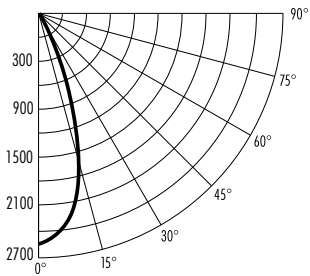
PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT10140805R
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQDPIN BD WET

Luminaire Spacing Criterion: 0.60

Luminaire LPW: 61



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees	Candelas
Vertical	0°
0	2592
5	2497
15	1654
25	355
35	29
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	64	58	53
5.0'	41	37	34
6.0'	28	26	24
7.0'	23	21	19
8.0'	18	16	15
9.0'	14	13	12
10.0'	10	9	9

INITIAL FOOTCANDLES

(One Unit, 14.8W, 35.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	72.0	3.8'
8	40.5	5.1'
10	25.9	6.3'
12	18.0	7.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1131
55	465
65	316
75	515
85	0

ZONAL LUMEN SUMMARY

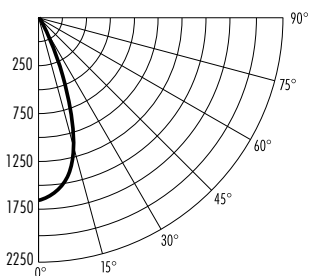
Zone	Lumens	%Fixture
0-30°	875	96.7
0-40°	903	99.8
0-60°	905	100.0
0-90°	905	100.0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT10140807R
Catalog No: AX2SQ AR 12LM 30K
80CRI 45D FPC 120
2SQDPIN BD WET

Luminaire Spacing Criterion: 0.62

Luminaire LPW: 46



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees	Candelas
Vertical	0°
0	1696
5	1625
15	1135
25	283
35	54
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	42	37	34
5.0'	27	24	22
6.0'	19	17	15
7.0'	15	13	12
8.0'	12	11	10
9.0'	9	8	7
10.0'	7	6	5

INITIAL FOOTCANDLES

(One Unit, 14.8W, 36° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	47.1	3.9'
8	26.5	5.2'
10	17.0	6.5'
12	11.8	7.8'

LUMINANCE (Average cd/m²)

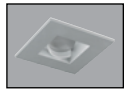
Degrees	Average Luminance
45	1509
55	465
65	316
75	1030
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	634	92.7
0-40°	681	99.6
0-60°	684	100.0
0-90°	684	100.0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2SQWW Square Lensed Wall Wash



Self-Flanged



Flangeless



2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200 LUMEN SQUARE APERTURE REMODEL 2SQWW

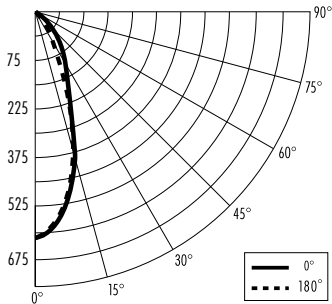
PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT02141703
Catalog No: AX2SQ AR 12LM 30K
80CRI 35D FPC 120
2SQWW

Luminaire Spacing Criterion @ 90°: 0.60

Luminaire: 2" IC/TC LED Adjustable with Flood Optic,
Wall Wash Trim



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0	612	612
5	592	593
10	507	507
15	383	358
20	265	201
25	166	109
30	105	59
35	79	41
40	69	30
45	66	19
50	60	10
55	52	5
60	44	3
65	36	2
70	26	1
75	18	0
80	12	0
85	7	0
90	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	343	53.4
0 - 40°	473	73.5
0 - 60°	615	95.7
0 - 90°	643	100.0
90 - 180°	0	0.0
0 - 180°	643	100.0

LUMINANCE (Average cd/m²)

Degrees	Average 180° Downlight Luminance
45	44338
55	43500
65	40387
75	33661
85	36040

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall	18"			24"		
	18"	18"	18"	24"	24"	24"
1'	18	18	18	14	13	14
2'	23	23	23	18	18	18
3'	22	22	22	17	17	17
4'	21	21	21	17	17	17
5'	18	19	18	15	16	15
6'	15	15	15	13	13	13
7'	12	13	12	11	11	11
8'	10	11	10	9	9	9
9'	8	8	8	7	7	7

Photometry is at 3000K CCT