

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color within 3-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI minimum.

Modular Optics 45° cutoff to source and source image • Available with 12° Spot, 24° Narrow Flood, 35° Flood and 50° wide flood field interchangeable optics • Additional distributions of 20°, 30°, 40°, 45° and 60° FWHM can be achieved with the use of diffusing films and spot primary optic • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position • Accommodates up to two (2) additional 0.156" thick or (3) 0.125" thick beam control lenses and/or filters.

Adjustability Acu-Aim™ precision geared hot-aiming achieves 370° rotation, and up to 45° tilt (depending on trim and ceiling thickness) • Optimized center beam optics translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Trims Style Die cast aluminum Self Flanged and Flangeless reflectors utilize precision wound double torsion springs for tight, secure fit to ceiling • Flange is same finish as reflector unless optional painted white flange is specified

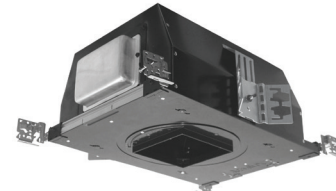
LED Driver Seven (7) driver options available to accommodate 120-277V input and multiple control protocols • For a list of compatible dimmers, refer to [ACXLLED3-DIM](#) • Power Factor > 0.9 • Field replaceable from below or above ceiling.

Life Rated for 50,000 hrs at 70% lumen maintenance.

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

Codes/Labels UL and cUL listed for through branch wiring, damp locations. Wet location listed with WET option • ICAT housings meet energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Certified with select trims • ICAT rated luminaires with 90CRI light engine are certified to high efficacy requirements of California T24 with select color temperatures and trims • ICAT housings are rated for direct contact with insulation including spray foam insulation with an R-Value of 3.7 per inch or less (excluding ECOS2, ECOS3, DMXR, NLIGHT) • Union made.

**4" LED UNIVERSAL RECESSED
ADJUSTABLE/DOWNLIGHT/WALL WASH
1200/1700/2200/2700/3200 LUMEN
SQUARE APERTURE NEW CONSTRUCTION
AX4SQ**



AX4SQ A

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 • All fixtures also feature vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to drywall.

Junction Box ICAT fixtures rated for 4, non-ICAT rated for 8 No. 12 AWG 90°C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

Ceiling Thickness 1/2" – 2" ceiling

Specifications subject to change without notice.

ORDERING INFORMATION

Example: AX4SQ A 27LM 30K 80CRI 24D FPC 120 ICAT 4SQABV BD WHFM FMA4/087

Series / Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ¹	Options
AX4SQ A New Construction Universal ADJ/DL/WW	12LM 1200 Lumens	27K 2700K	80CRI	12D 12° beam	EZ1 eldoLED 0-10V, 1% dim	120 277 MVOLT (120-277)	CP Chicago Plenum
	17LM 1700 Lumens	30K 3000K	90CRI	24D 24° beam	EZB eldoLED 0-10V, <1% dim		ICAT ³ IC, Air-Tight
	22LM 2200 Lumens	35K 3500K		35D 35° beam	FPC Phase cut dimming, 5% dim		NLIGHT ² nLight dimming pack controls
	27LM 2700 Lumens	40K 4000K		50D 50° beam	ECOS2 Lutron Hi-Lume A series 2-wire forward phase, 1% dim		
	32LM 3200 Lumens				ECOS3 Lutron Hi-Lume A series 3-wire with EcoSystem, 1% dim		
					DMXR DMX, RDM Driver, 1% dim		
					DALI DALI Driver, 1% dim		

Square Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
<i>ADJUSTABLE ACCENT</i>	BD Black Diffuse	<i>SELF FLANGED</i>	WET Wet location (Solite Lens)	<i>SELF-FLANGED</i>
4SQA Angle-Cut Reflector, 45°	CD ⁴ Clear Diffuse	SF ⁴ Flange is same finish as reflector		Ceiling ≤ .875" CTA4/163 Ceiling 1.25" - 1.625"
4SQABV Adjustable Bevel	W ⁴ White Paint	WHSF White painted trim		Ceiling 0.875" - 1.25" CTA4/200 Ceiling 1.625" - 2"
4SQAC20 Shallow Angle-Cut Reflector, 20°	WTD ⁴ Wheat Diffuse	BLSF ⁵ Black painted trim		<i>FLANGELESS, GYPSUM</i>
<i>DOWNLIGHT</i>		<i>FLANGELESS⁷</i>		FMA4/087 Ceiling ≤ .875" FMA4/163 Ceiling 1.25" - 1.625"
4SQD Parabolic Downlight		FM ⁴ Flangeless		FMA4/125 Ceiling 0.875" - 1.25" FMA4/200 Ceiling 1.625" - 2"
4SQDBV Bevel Downlight		WHFM ⁵ Flangeless, White trim		<i>FLANGELESS, WOOD/STONE/TILE⁶</i>
<i>WALL WASH</i>		BLFM ⁵ Flangeless, Black trim		SFM4/087 (B,W) Ceiling ≤ 0.875" SFM4/163 (B,W) Ceiling 1.25" - 1.625"
4SQQW Lensed Wall Wash				SFM4/125 (B,W) Ceiling 0.875" - 1.25"

Ordering Notes

¹ MVOLT standard on EZ1, EZB, ECOS3, DMXR, DALI. 120 standard for FPC and ECOS2 ⁴ Available for 4SQA, 4SQAC20, 4SQD, 4SQQW only ⁷ Must specify flangeless ceiling installation (FMA4SQ or SFM4SQ)

² Must specify 120 or 277 volts ⁵ Available for 4SQABV, 42QDBV only

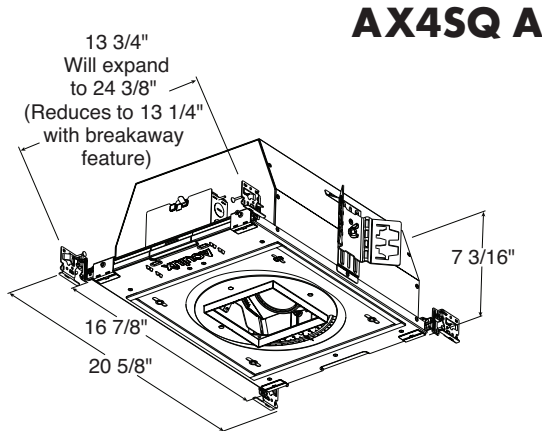
³ ICAT not available with 32LM ⁶ Specify finish : B=Black, W=White

A+ Capable options indicated by this color background.

4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE APERTURE NEW CONSTRUCTION AX4SQ

DIMENSIONS

NEW CONSTRUCTION



5 5/16" x 5 5/16" CEILING CUTOUT
(REFER TO INSTRUCTION SHEET FOR FLANGELESS
CEILING CUTOUT)

ELECTRICAL DATA

Lumen Package	1200		1700		2200		2700		3200	
	Voltage	120	277	120	277	120	277	120	277	120
Input Power	12.0W	12.9W	15.6W	17.2W	22.5W	25.1W	29.7W	33.2W	36.2W	35.6W
Input Current	0.10	0.06	0.13	0.08	0.19	0.12	0.25	0.16	0.30	0.14
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9	>0.85	>0.9	>0.85	>0.9	>0.85	>0.9	>0.85	>0.9	>0.85

ACCESSORIES

Cat. #	Description
4AXOPT/12D	12° Spot Optic
4AXOPT/24D	24° Narrow Flood Optic
4AXOPT/35D	35° Flood Optic
4AXOPT/50D	50° Wide Flood Optic
AF4/10	10° Film (Use with Spot Optic)
AF4/20	20° Film (Use with Spot Optic)
AF4/40	40° Film (Use with Spot Optic)
AF4/50	50° Film (Use with Spot Optic)
AF4/60x1	60°x1° Film (Use with Spot Optic)
AF4/80	80° Film (Use with Spot Optic)
CGF 300 MPINK	Med. Pink Color Filter
CGF 300 WRED	Warm Red Color Filter
CGF 300 DLTBLUE	Daylight Blue Color Filter
CGF 300 MBLU	Med. Blue Color Filter
CGF 300 MAMB	Med. Amber Color Filter
CGF 300 MGRN	Med. Green Color Filter
DGF 300 DRED	Red Dichroic Lens
DGF 300 MGRN	Med. Green Dichroic Lens
DGF 300 MBLU	Med. Blue Dichroic Lens
DGF 300 DYEL	Yellow Dichroic Lens
DGF 300 MAGEN	Magenta Dichroic Lens
DGF 300 CYAN	Blue Green Dichroic Lens
DCCF 300 HL4250	Daylight Blue Correction Lens
DIFF 300	Diffuse Spread Lens
SOLITE 300	Uniformity Lens
UVF 300	UV Filter Lens
PRISM 300	Prismatic Lens
LSPREAD 300	Linear Spread Lens
HCLBL 300	Hexcell Louver
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
EMI20	20W Emergency Lighting Inverter
<i>To order, specify catalog number.</i>	
	<i>(only for 12LM and 17LM)</i>

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

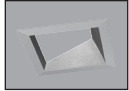
Desired FWHM	Primary Optic	Film
12°	12D	-
20°	12D	AF4/10
24°	24D	-
30°	12D	AF4/20
35°	35D	-
40°	12D	AF4/40
45°	12D	AF4/50
50°	50D	-
60°	12D	AF4/80
20°x60°	12D	AF4/60x1

4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE APERTURE NEW CONSTRUCTION AX4SQ

TRIM SELECTION

ADJUSTABLE ACCENT

4SQA Angle-Cut Reflector, 45°



Self-Flanged



Aperture: 4 3/8"



Flangeless



Model:	AX4SQ A 32LM, AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W, BD



Model:	AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W, BD

4SQABV Adjustable Bevel



Self-Flanged



Aperture: 3 1/2"



Flangeless

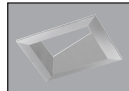


Model:	AX4SQ A 32LM, AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W, BD



Model:	AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	BD

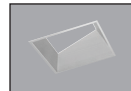
4SQAC20 Shallow Angle-Cut Reflector, 20°



Self-Flanged



Aperture: 4 3/8"



Flangeless



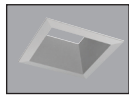
Model:	AX4SQ A 32LM, AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	BD



Model:	AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W, BD

DOWNLIGHT TRIMS

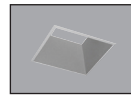
4SQD Parabolic Downlight Trim



Self-Flanged



Aperture: 4 3/8"



Flangeless



Model:	AX4SQ A 32LM, AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W, BD



Model:	AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W, BD

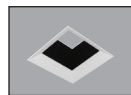
4SQDBV Downlight Bevel



Self-Flanged



Aperture: 3 1/2"



Flangeless



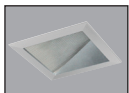
Model:	AX4SQ A 32LM, AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	BD



Model:	AX4SQ A 12LM/17LM/22LM/27LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	BD

WALL WASH

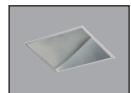
4SQWW Lensed Wall Wash



Self-Flanged



Aperture: 4 3/8"



Flangeless



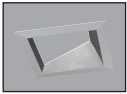
Model:	AX4SQ A 12LM/17LM/22LM
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 80CRI, 30K 80CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W, BD



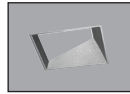
Model:	AX4SQ A 22LM	AX4SQ A 12LM/17LM
Driver:	EZ1, EZB, FPC, DMXR, DALI	
CCT/CRI:	27K 90CRI, 30K 90CRI	
Optic:	24D	24D, 35D
Trim Finish:		CD, WTD, W, BD

* With WET option

4SQA Angle-Cut Reflector, 45°



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE ANGLE-CUT REFLECTOR NEW CONSTRUCTION 4SQA Trim

PHOTOMETRICS

SPOT

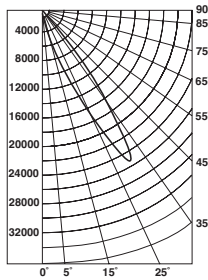
PHOTOMETRIC REPORT

Test Report: PT04161201R
Catalog No: AX4SQA A 32LM 30K
80CRI 12D EZB MVOLT
4SQA CD
(Aim at 30°)

Watts: 33.6

Lumens: 2915

Luminaire LPW: 87



Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	708
5°	950
10°	2039
15°	4304
20°	8096
25°	17864
30°	25928
35°	16037
40°	5979
45°	1719
50°	265
55°	82
60°	33
65°	9
70°	0
75°	0
80°	0
85°	0
90°	0

NARROW FLOOD

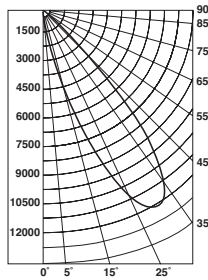
PHOTOMETRIC REPORT

Test Report: PT04161206R
Catalog No: AXSQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQA CD
(Aim at 30°)

Watts: 33.6

Lumens: 2897

Luminaire LPW: 86



Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	747
5°	1269
10°	2376
15°	4499
20°	7718
25°	10730
30°	12023
35°	10804
40°	7605
45°	3481
50°	1195
55°	379
60°	118
65°	12
70°	0
75°	0
80°	0
85°	0
90°	0

FLOOD

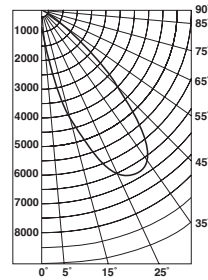
PHOTOMETRIC REPORT

Test Report: PT04161311R
Catalog No: AXSQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQA CD
(Aim at 30°)

Watts: 33.6

Lumens: 2869

Luminaire LPW: 85



Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	958
5°	1562
10°	2592
15°	4075
20°	5589
25°	6543
30°	6814
35°	6578
40°	5707
45°	3974
50°	2231
55°	1170
60°	544
65°	20
70°	0
75°	0
80°	0
85°	0
90°	0

WIDE FLOOD

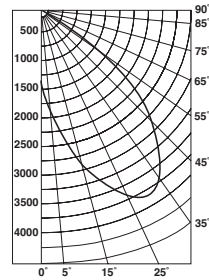
PHOTOMETRIC REPORT

Test Report: PT04161316R
Catalog No: AXSQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQA CD
(Aim at 30°)

Watts: 33.6

Lumens: 2725

Luminaire LPW: 81



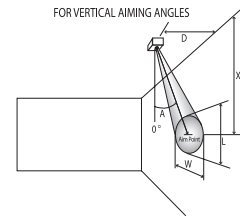
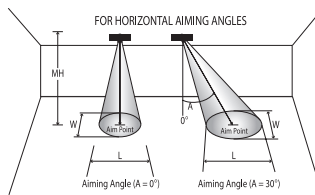
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	1418
5°	1921
10°	2464
15°	2967
20°	3362
25°	3702
30°	3884
35°	3725
40°	3322
45°	2827
50°	2137
55°	1485
60°	581
65°	23
70°	2
75°	0
80°	0
85°	0
90°	0

LUMEN OUTPUT MULTIPLIERS				
Color		Lumen		
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

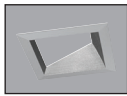
CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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°).

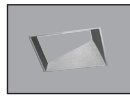


Beam Type	Beam Spread°	CBCP	0°				30°				30°				45°			
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	25928	6	720	1.4	1.4	468	1.9	1.6	3	360	5.2	3.0	1.4	1019	3.0	1.4	1.0
			8	405	1.9	1.9	263	2.5	2.2	4	203	6.9	4.0	1.9	573	4.0	1.9	1.3
			10	259	2.4	2.4	168	3.2	2.7	5	130	8.7	4.9	2.4	367	5.0	2.4	1.7
			12	180	2.8	2.8	117	3.8	3.3	6	90	10.4	5.9	2.8	255	6.0	2.9	2.0
			14	132	3.3	3.3	86	4.4	3.8	7	66	12.1	6.9	3.3	187	7.0	3.4	2.3
NFL	24°	12023	4	751	1.8	1.8	488	2.4	2.0	2	376	3.5	4.1	1.8	1063	2.0	1.8	1.2
			6	334	2.6	2.6	217	3.6	3.0	3	167	5.2	6.1	2.6	472	3.0	2.8	1.9
			8	188	3.5	3.5	122	4.7	4.0	4	94	6.9	8.2	3.5	266	4.0	3.7	2.5
			10	120	4.4	4.4	78	5.9	5.1	5	60	8.7	10.2	4.4	170	5.0	4.6	3.1
FL	35°	6814	12	83	5.3	5.3	54	7.1	6.1	6	42	10.4	12.3	5.3	118	6.0	5.5	3.7
			4	426	2.6	2.6	277	3.6	3.0	2	213	3.5	7.5	2.6	602	2.0	2.9	1.8
			6	189	3.9	3.9	123	5.3	4.5	3	95	5.2	11.2	3.9	268	3.0	4.3	2.7
			8	106	5.2	5.2	69	7.1	5.9	4	53	6.9	15.0	5.2	151	4.0	5.7	3.6
WFL	50°	3884	10	68	6.4	6.4	44	8.9	7.4	5	34	8.7	18.7	6.4	96	5.0	7.2	4.6
			12	47	7.7	7.7	31	10.7	8.9	6	24	10.4	22.4	7.7	67	6.0	8.6	5.5
			4	243	3.7	3.7	158	5.3	4.3	2	121	3.5	20.4	3.7	343	2.0	4.7	2.6
			6	108	5.5	5.5	70	7.9	6.4	3	54	5.2	30.5	5.5	153	3.0	7.0	3.9
			8	61	7.4	7.4	39	10.6	8.5	4	30	6.9	40.7	7.4	86	4.0	9.4	5.2
			10	39	9.2	9.2	25	13.2	10.6	5	19	8.7	50.9	9.2	55	5.0	11.7	6.5
			12	27	11.1	11.1	18	15.9	12.8	6	13	10.4	61.1	11.1	38	6.0	14.1	7.8

4SQA Angle-Cut Reflector, 45°



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH

1200/1700/2200/2700/3200 LUMEN

SQUARE ANGLE-CUT REFLECTOR NEW CONSTRUCTION 4SQA Trim with WET option

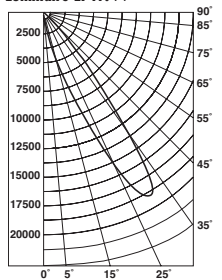
PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report: PT04161204R
Catalog No: AX4SQA A 32LM 30K
80CRI 12D EZB MVOLT
4SQA CD WET
(Aim at 30°)

Watts: 33.6
Lumens: 2650
Luminaire LPW: 79



Candlepower Distribution (Candelas)

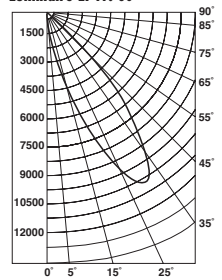
Degrees	Vertical Candela
0°	565
5°	904
10°	2024
15°	4115
20°	7829
25°	14796
30°	18877
35°	13031
40°	6106
45°	1979
50°	503
55°	123
60°	48
65°	16
70°	2
75°	0
80°	0
85°	0
90°	0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT04161209R
Catalog No: AXSQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQA CD WET
(Aim at 30°)

Watts: 33.6
Lumens: 2680
Luminaire LPW: 80



Candlepower Distribution (Candelas)

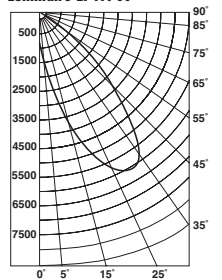
Degrees	Vertical Candela
0°	792
5°	1261
10°	2285
15°	4156
20°	6796
25°	9215
30°	10211
35°	9189
40°	6501
45°	3187
50°	1217
55°	417
60°	138
65°	23
70°	2
75°	0
80°	0
85°	0
90°	0

FLOOD

PHOTOMETRIC REPORT

Test Report: PT04161314R
Catalog No: AXSQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQA CD WET
(Aim at 30°)

Watts: 33.6
Lumens: 2677
Luminaire LPW: 80



Candlepower Distribution (Candelas)

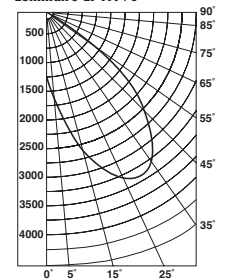
Degrees	Vertical Candela
0°	938
5°	1486
10°	2390
15°	3647
20°	4930
25°	5843
30°	6075
35°	5843
40°	5025
45°	3491
50°	2022
55°	1093
60°	517
65°	61
70°	2
75°	0
80°	0
85°	0
90°	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report: PT04161319R
Catalog No: AXSQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQA CD WET
(Aim at 30°)

Watts: 33.6
Lumens: 2514
Luminaire LPW: 75

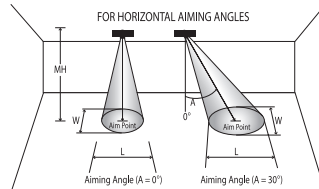


Candlepower Distribution (Candelas)

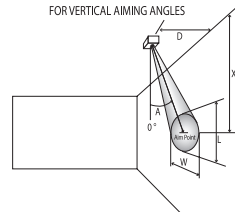
Degrees	Vertical Candela
0°	1294
5°	1753
10°	2237
15°	2679
20°	3025
25°	3307
30°	3435
35°	3307
40°	2973
45°	2547
50°	1945
55°	1351
60°	627
65°	56
70°	5
75°	0
80°	0
85°	0
90°	0

LUMEN OUTPUT MULTIPLIERS

Color		Lumen		
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		



Horizontal Aiming Angles



Vertical Aiming Angles



CBPC • 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°				45°			
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	18877	6	524	1.7	1.7	341	2.3	2.0	3	262	5.2	3.7	1.7	742	3.0	1.8	1.2
			8	295	2.3	2.3	192	3.1	2.7	4	147	6.9	4.9	2.3	417	4.0	2.4	1.6
			10	189	2.9	2.9	123	3.9	3.3	5	94	8.7	6.1	2.9	267	5.0	2.9	2.0
			12	131	3.5	3.5	85	4.6	4.0	6	66	10.4	7.4	3.5	185	6.0	3.5	2.4
			14	96	4.0	4.0	63	5.4	4.7	7	48	12.1	8.6	4.0	136	7.0	4.1	2.9
NFL	24°	10211	4	638	1.8	1.8	415	2.4	2.1	2	319	3.5	4.2	1.8	903	2.0	1.9	1.3
			6	284	2.7	2.7	184	3.7	3.1	3	142	5.2	6.3	2.7	401	3.0	2.8	1.9
			8	160	3.6	3.6	104	4.9	4.1	4	80	6.9	8.5	3.6	226	4.0	3.8	2.5
			10	102	4.5	4.5	66	6.1	5.2	5	51	8.7	10.6	4.5	144	5.0	4.7	3.2
FL	35°	6075	12	71	5.4	5.4	46	7.3	6.2	6	35	10.4	12.7	5.4	100	6.0	5.7	3.8
			4	380	2.6	2.6	247	3.6	3.0	2	190	3.5	7.7	2.6	537	2.0	2.9	1.8
			6	169	3.9	3.9	110	5.4	4.5	3	84	5.2	11.5	3.9	239	3.0	4.4	2.8
			8	95	5.2	5.2	62	7.2	6.0	4	47	6.9	15.4	5.2	134	4.0	5.9	3.7
WFL	50°	3434	10	61	6.5	6.5	39	9.0	7.5	5	30	8.7	19.2	6.5	86	5.0	7.3	4.6
			12	42	7.8	7.8	27	10.8	9.1	6	21	10.4	23.1	7.8	60	6.0	8.8	5.5
			4	215	3.8	3.8	139	5.4	4.3	2	107	3.5	22.4	3.8	304	2.0	4.8	2.7
			6	95	5.6	5.6	62	8.1	6.5	3	48	5.2	33.6	5.6	135	3.0	7.3	4.0
			8	54	7.5	7.5	35	10.8	8.7	4	27	6.9	44.9	7.5	76	4.0	9.7	5.3
			10	34	9.4	9.4	22	13.5	10.9	5	17	8.7	56.1	9.4	49	5.0	12.1	6.7
			12	24	11.3	11.3	15	16.3	13.0	6	12	10.4	67.3	11.3	34	6.0	14.5	8.0

4SQABV Adjustable Bevel



Self-Flanged

Flangeless

4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE ADJUSTABLE BEVEL NEW CONSTRUCTION

4SQABV Trim

PHOTOMETRICS

SPOT

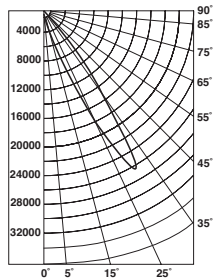
PHOTOMETRIC REPORT

Test Report: PT04161202R
Catalog No: AX4SQ A 32LM 30K
80CRI 12D EZB MVOLT
4SQABV
(Aim at 30°)

Watts: 33.6

Lumens: 2719

Luminaire LPW: 81



Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	0°	223
5°	5°	536
10°	10°	1775
15°	15°	4107
20°	20°	8005
25°	25°	18187
30°	30°	25897
35°	35°	15317
40°	40°	5882
45°	45°	1942
50°	50°	456
55°	55°	88
60°	60°	37
65°	65°	11
70°	70°	0
75°	75°	0
80°	80°	0
85°	85°	0
90°	90°	0

NARROW FLOOD

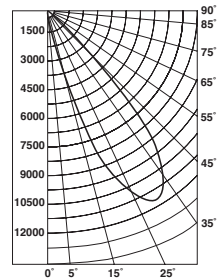
PHOTOMETRIC REPORT

Test Report: PT04161207R
Catalog No: AX4SQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQABV
(Aim at 30°)

Watts: 33.6

Lumens: 2725

Luminaire LPW: 81



Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	0°	493
5°	5°	1000
10°	10°	2139
15°	15°	4354
20°	20°	7620
25°	25°	10622
30°	30°	11944
35°	35°	10746
40°	40°	7537
45°	45°	3574
50°	50°	1308
55°	55°	396
60°	60°	136
65°	65°	16
70°	70°	0
75°	75°	0
80°	80°	0
85°	85°	0
90°	90°	0

FLOOD

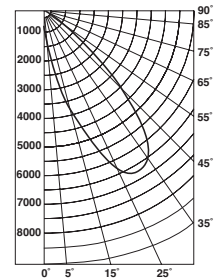
PHOTOMETRIC REPORT

Test Report: PT04161312R
Catalog No: AX4SQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQABV
(Aim at 30°)

Watts: 33.6

Lumens: 2771

Luminaire LPW: 82



Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	0°	818
5°	5°	1421
10°	10°	2473
15°	15°	3979
20°	20°	5502
25°	25°	6486
30°	30°	6766
35°	35°	6543
40°	40°	5690
45°	45°	4131
50°	50°	2357
55°	55°	1224
60°	60°	627
65°	65°	71
70°	70°	1
75°	75°	0
80°	80°	0
85°	85°	0
90°	90°	0

WIDE FLOOD

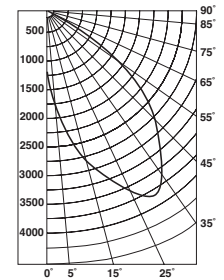
PHOTOMETRIC REPORT

Test Report: PT04161317R
Catalog No: AX4SQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQABV
(Aim at 30°)

Watts: 33.6

Lumens: 2606

Luminaire LPW: 78

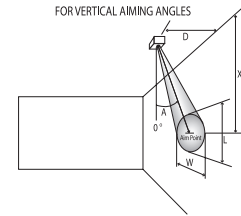
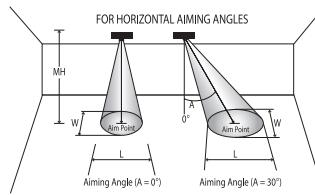


Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	0°	1239
5°	5°	1796
10°	10°	2354
15°	15°	2867
20°	20°	3260
25°	25°	3614
30°	30°	3842
35°	35°	3693
40°	40°	3282
45°	45°	2829
50°	50°	2286
55°	55°	1613
60°	60°	1044
65°	65°	84
70°	70°	5
75°	75°	0
80°	80°	0
85°	85°	0
90°	90°	0

LUMEN OUTPUT MULTIPLIERS

Color	Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38	
3000K	80	1.00	1700	0.53	
3500K	80	1.03	2200	0.72	
4000K	80	1.06	2700	0.87	
2700K	90	0.79	3200	1.00	
3000K	90	0.82			



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°				45°			
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	25897	6	719	1.4	1.4	467	1.9	1.6	3	360	5.2	2.9	1.4	1017	3.0	1.4	1.0
			8	405	1.9	1.9	263	2.5	2.2	4	202	6.9	3.9	1.9	572	4.0	1.9	1.3
			10	259	2.3	2.3	168	3.1	2.7	5	129	8.7	4.9	2.3	366	5.0	2.4	1.6
			12	180	2.8	2.8	117	3.7	3.2	6	90	10.4	5.8	2.8	254	6.0	2.8	2.0
			14	132	3.3	3.3	86	4.4	3.8	7	66	12.1	6.8	3.3	187	7.0	3.3	2.3
NFL	24°	11944	4	747	1.7	1.7	485	2.4	2.0	2	373	3.5	4.1	1.7	1056	2.0	1.8	1.2
			6	332	2.6	2.6	215	3.5	3.0	3	166	5.2	6.1	2.6	469	3.0	2.7	1.9
			8	187	3.5	3.5	121	4.7	4.0	4	93	6.9	8.1	3.5	264	4.0	3.7	2.5
			10	119	4.4	4.4	78	5.9	5.0	5	60	8.7	10.2	4.4	169	5.0	4.6	3.1
FL	35°	6766	4	423	2.6	2.6	275	3.6	3.0	2	211	3.5	7.5	2.6	598	2.0	2.9	1.8
			6	188	3.9	3.9	122	5.4	4.5	3	94	5.2	11.3	3.9	266	3.0	4.3	2.7
			8	106	5.2	5.2	69	7.1	6.0	4	53	6.9	15.0	5.2	150	4.0	5.8	3.7
			10	68	6.5	6.5	44	8.9	7.5	5	34	8.7	18.8	6.5	96	5.0	7.2	4.6
WFL	50°	3842	4	240	3.7	3.7	156	5.3	4.3	2	120	3.5	21.2	3.7	340	2.0	4.9	2.6
			6	107	5.6	5.6	69	8.0	6.4	3	53	5.2	31.8	5.6	151	3.0	7.1	3.9
			8	60	7.4	7.4	39	10.7	8.6	4	30	6.9	42.5	7.4	85	4.0	9.5	5.3
			10	38	9.3	9.3	25	13.4	10.7	5	19	8.7	53.1	9.3	54	5.0	11.9	6.6
			12	27	11.2	11.2	17	16.0	12.9	6	13	10.4	63.7	11.2	38	6.0	14.3	7.9

4SQABV Adjustable Bevel



Self-Flanged

Flangeless

4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE ADJUSTABLE BEVEL NEW CONSTRUCTION

4SQABV Trim with WET option

PHOTOMETRICS

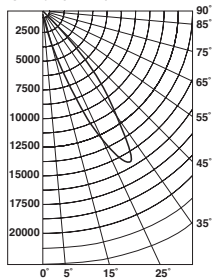
SPOT

PHOTOMETRIC REPORT
Test Report: PT04161203R
Catalog No: AX4SQ A 32LM 30K
80CRI 12D EZB MVOLT
4SQABV WET
(Aim at 30°)

Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	250	
5°	589	
10°	1634	
15°	3709	
20°	7516	
25°	13706	
30°	16261	
35°	11706	
40°	5957	
45°	2519	
50°	867	
55°	253	
60°	80	
65°	29	
70°	10	
75°	2	
80°	0	
85°	0	
90°	0	

Watts: 33.6
Lumens: 2144
Luminaire LPW: 72



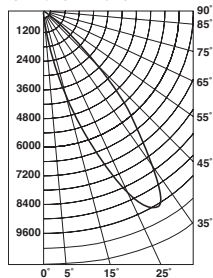
NARROW FLOOD

PHOTOMETRIC REPORT
Test Report: PT04161208R
Catalog No: AX4SQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQABV WET
(Aim at 30°)

Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	520	
5°	1040	
10°	2117	
15°	4054	
20°	6658	
25°	8881	
30°	9618	
35°	8398	
40°	5779	
45°	3152	
50°	1405	
55°	544	
60°	200	
65°	66	
70°	18	
75°	1	
80°	0	
85°	0	
90°	0	

Watts: 33.6
Lumens: 2453
Luminaire LPW: 73



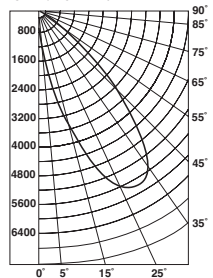
FLOOD

PHOTOMETRIC REPORT
Test Report: PT04161313R
Catalog No: AX4SQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQABV WET
(Aim at 30°)

Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	798	
5°	1379	
10°	2320	
15°	3579	
20°	4806	
25°	5621	
30°	5851	
35°	5537	
40°	4602	
45°	3286	
50°	1990	
55°	1064	
60°	508	
65°	191	
70°	42	
75°	1	
80°	0	
85°	0	
90°	0	

Watts: 33.6
Lumens: 2475
Luminaire LPW: 74



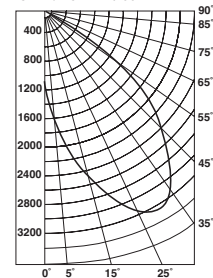
WIDE FLOOD

PHOTOMETRIC REPORT
Test Report: PT04161318R
Catalog No: AX4SQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQABV WET
(Aim at 30°)

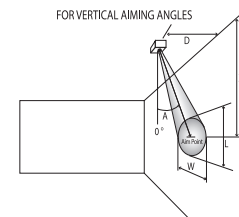
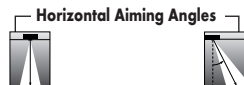
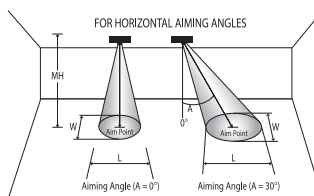
Candlepower Distribution (Candelas)

Degrees	Vertical	Candela
0°	1111	
5°	1611	
10°	2117	
15°	2550	
20°	2897	
25°	3177	
30°	3282	
35°	3150	
40°	2836	
45°	2410	
50°	1892	
55°	1284	
60°	700	
65°	255	
70°	51	
75°	3	
80°	0	
85°	0	
90°	0	

Watts: 33.6
Lumens: 2298
Luminaire LPW: 68



LUMEN OUTPUT MULTIPLIERS				
Color		Lumen		
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		



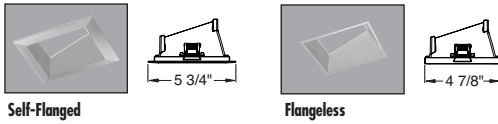
CBCP • Centerbeam candlepower

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°			45°						
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	16221	6	452	1.9	1.9	293	2.5	2.2	3	226	5.2	4.0	1.9	639	3.0	1.9	1.3
			8	254	2.5	2.5	165	3.3	2.9	4	127	6.9	5.4	2.5	359	4.0	2.6	1.8
			10	163	3.1	3.1	106	4.2	3.6	5	81	8.7	6.7	3.1	230	5.0	3.2	2.2
			12	113	3.7	3.7	73	5.0	4.3	6	56	10.4	8.1	3.7	160	6.0	3.8	2.6
			14	83	4.4	4.4	54	5.9	5.0	7	41	12.1	9.4	4.4	117	7.0	4.5	3.1
NFL	24°	9618	4	601	1.8	1.8	390	2.4	2.1	2	301	3.5	4.3	1.8	850	2.0	1.9	1.3
			6	267	2.7	2.7	174	3.7	3.1	3	134	5.2	6.4	2.7	378	3.0	2.8	1.9
			8	150	3.6	3.6	98	4.9	4.2	4	75	6.9	8.5	3.6	213	4.0	3.8	2.5
			10	96	4.5	4.5	62	6.1	5.2	5	48	8.7	10.6	4.5	136	5.0	4.7	3.2
FL	35°	5850	12	67	5.4	5.4	43	7.3	6.2	6	33	10.4	12.8	5.4	94	6.0	5.7	3.8
			4	366	2.6	2.6	237	3.6	3.0	2	183	3.5	7.5	2.6	517	2.0	2.9	1.8
			6	163	3.9	3.9	106	5.4	4.5	3	81	5.2	11.3	3.9	230	3.0	4.3	2.7
			8	91	5.2	5.2	59	7.1	6.0	4	46	6.9	15.0	5.2	129	4.0	5.8	3.7
WFL	50°	3282	10	59	6.5	6.5	38	8.9	7.5	5	29	8.7	18.8	6.5	83	5.0	7.2	4.6
			12	41	7.8	7.8	26	10.7	9.0	6	20	10.4	22.6	7.8	57	6.0	8.7	5.5
			4	208	3.7	3.7	133	5.3	4.3	2	103	3.5	21.2	3.7	290	2.0	4.8	2.6
			6	91	5.6	5.6	59	8.0	6.4	3	46	5.2	21.8	5.6	129	3.0	7.1	3.9
			8	51	7.4	7.4	33	10.7	8.6	4	26	6.9	42.5	7.4	73	4.0	9.5	5.3
			10	33	9.3	9.3	21	13.4	10.7	5	16	8.7	53.1	9.3	46	5.0	11.9	6.6
			12	23	11.2	11.2	15	16.0	12.9	6	11	10.4	63.7	11.2	32	6.0	14.3	7.9

4SQAC20 Shallow Angle-Cut Reflector, 20°

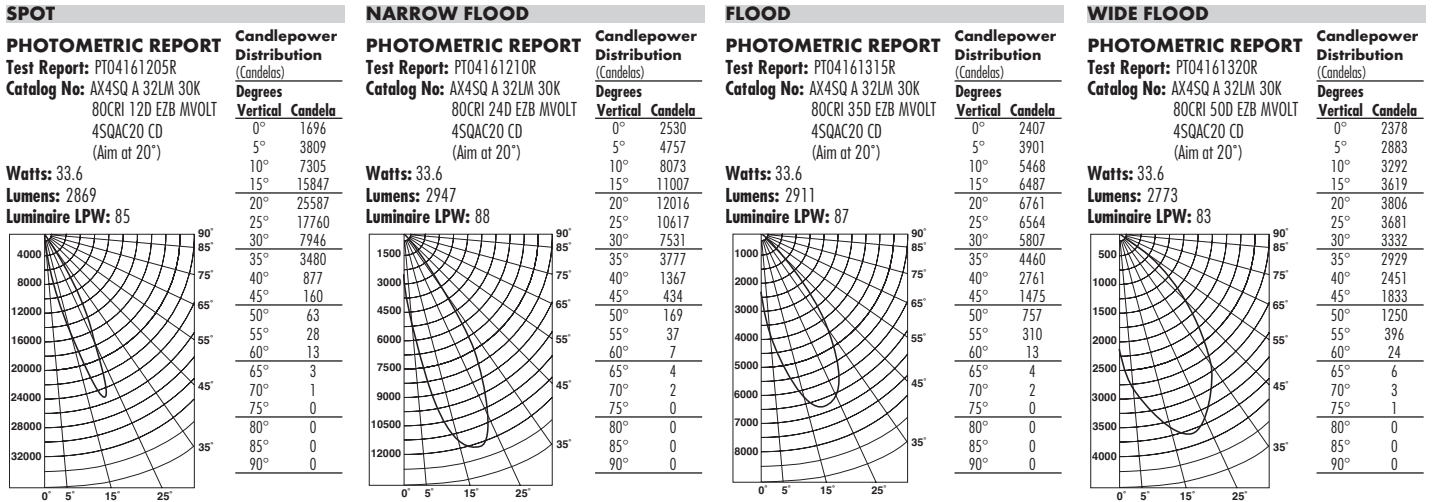


4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

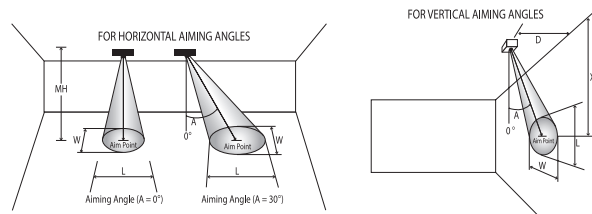
SQUARE 20° ANGLE-CUT REFLECTOR NEW CONSTRUCTION

4SQAC20 Trim

PHOTOMETRICS



LUMEN OUTPUT MULTIPLIERS				
Color	Temperature		CRI	
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		



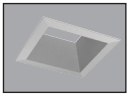
CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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°).

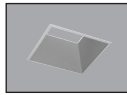


Beam Type	Beam Spread°	CBCP	0°			20°			20°					
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
SP	12°	7946	6	711	1.5	1.5	590	1.7	1.6	3	114	8.2	7.0	2.1
			8	400	2.0	2.0	332	2.2	2.1	4	64	11.0	9.4	2.9
			10	256	2.4	2.4	212	2.8	2.6	5	41	13.7	11.7	3.6
			12	178	2.9	2.9	147	3.3	3.1	6	28	16.5	14.1	4.3
			14	131	3.4	3.4	108	3.9	3.6	7	21	19.2	16.4	5.0
NFL	24°	7531	4	751	1.8	1.8	623	2.0	1.9	2	120	5.5	12.2	2.6
			6	334	2.7	2.7	277	3.0	2.8	3	53	8.2	18.2	3.9
			8	188	3.6	3.6	156	4.1	3.8	4	30	11.0	24.3	5.2
			10	120	4.5	4.5	100	5.1	4.7	5	19	13.7	30.4	6.5
			12	83	5.3	5.3	69	6.1	5.7	6	13	16.5	36.5	7.8
FL	35°	5807	4	423	2.5	2.5	351	2.9	2.7	2	68	5.5	41.4	3.7
			6	188	3.8	3.8	156	4.3	4.0	3	30	8.2	62.1	5.5
			8	106	5.0	5.0	88	5.8	5.3	4	17	11.0	82.9	7.3
			10	68	6.3	6.3	56	7.2	6.7	5	11	13.7	103.6	9.2
			12	47	7.5	7.5	39	8.6	8.0	6	8	16.5	124.3	11.0
WFL	50°	3332	4	423	2.5	2.5	351	2.9	2.7	2	68	5.5	41.4	3.7
			6	188	3.8	3.8	156	4.3	4.0	3	30	8.2	62.1	5.5
			8	106	5.0	5.0	88	5.8	5.3	4	17	11.0	82.9	7.3
			10	68	6.3	6.3	56	7.2	6.7	5	11	13.7	103.6	9.2
			12	47	7.5	7.5	39	8.6	8.0	6	8	16.5	124.3	11.0

4SQD Parabolic Downlight Trim



Self-Flanged



Flangeless



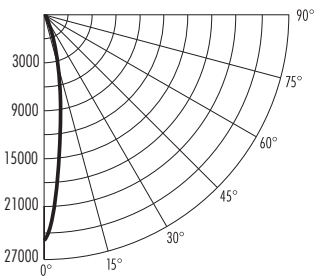
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE DOWNLIGHT NEW CONSTRUCTION

4SQD Trim

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT04160601R
Catalog No: AX4SQ A 32LM 30K
80CRI 12D EZB MVOLT
4SQD CD
Luminaire Spacing Criterion: 0.24
Luminaire LPW: 88



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	26657	
5	17216	
15	4071	
25	448	
35	90	
45	38	
55	12	
65	5	
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'	210	193	180
5.0'	134	124	115
6.0'	93	86	80
7.0'	76	70	65
8.0'	60	55	51
9.0'	46	42	39
10.0'	34	31	29

INITIAL FOOTCANDLES (One Unit, 33.6W, 13.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	712.7	1.4'
8	400.9	1.9'
10	256.6	2.4'
12	178.2	2.8'

ZONAL LUMEN SUMMARY

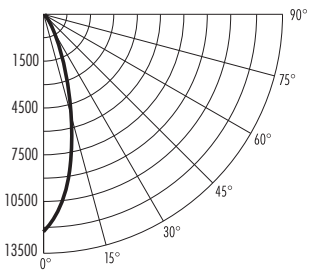
Zone	Lumens	%Fixture
0-30°	2838	95.5
0-40°	2923	98.4
0-60°	2966	99.8
0-90°	2971	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3959
55	1593
65	814
75	266
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160605R
Catalog No: AX4SQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQD CD
Luminaire Spacing Criterion: 0.44
Luminaire LPW: 88



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	12091	
5	10783	
15	4502	
25	959	
35	185	
45	37	
55	16	
65	6	
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'	209	188	174
5.0'	134	121	111
6.0'	93	84	77
7.0'	75	68	62
8.0'	59	54	49
9.0'	45	41	38
10.0'	33	30	28

INITIAL FOOTCANDLES (One Unit, 33.6W, 25.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	335.9	2.7'
8	188.9	3.6'
10	120.9	4.5'
12	84.0	5.4'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2731	92.4
0-40°	2890	97.8
0-60°	2947	99.7
0-90°	2954	100.0

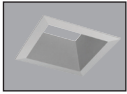
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3945
55	2089
65	1116
75	418
85	0

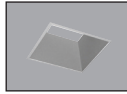
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color	Temperature		Lumen	
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQD Parabolic Downlight Trim



Self-Flanged



Flangeless



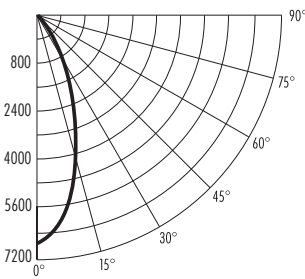
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE DOWNLIGHT NEW CONSTRUCTION

4SQD Trim (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160710R
Catalog No: AX4SQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQD CD
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 86



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	6733
5	6411
15	4101
25	1593
35	434
45	37
55	16
65	7
75	2
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'	203	182	163
5.0'	130	116	105
6.0'	90	81	73
7.0'	73	65	59
8.0'	58	52	46
9.0'	44	40	36
10.0'	33	29	26

INITIAL FOOTCANDLES (One Unit, 33.6W, 35.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	187.0	3.9'
8	105.2	5.1'
10	67.3	6.4'
12	46.8	7.7'

ZONAL LUMEN SUMMARY

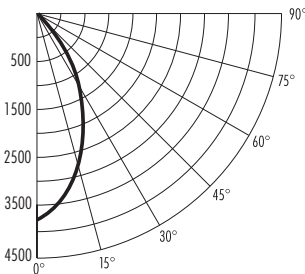
Zone	Lumens	%Fixture
0-30°	2496	85.9
0-40°	2813	96.8
0-60°	2898	99.7
0-90°	2905	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3862
55	2124
65	1185
75	493
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160715R
Catalog No: AX4SQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQD CD
Luminaire Spacing Criterion: 0.76
Luminaire LPW: 82



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	3831
5	3645
15	2816
25	1904
35	828
45	51
55	23
65	10
75	3
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'	191	167	146
5.0'	122	107	94
6.0'	85	74	65
7.0'	69	60	53
8.0'	54	47	42
9.0'	42	36	32
10.0'	31	27	23

INITIAL FOOTCANDLES (One Unit, 33.6W, 51.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	106.4	5.7'
8	59.9	7.7'
10	38.3	9.6'
12	26.6	11.5'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2046	74.4
0-40°	2604	94.7
0-60°	2737	99.5
0-90°	2751	100.0

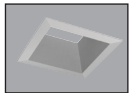
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	5390
55	3048
65	1836
75	987
85	0

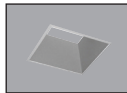
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQD Parabolic Downlight Trim



Self-Flanged



Flangeless

4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE DOWNLIGHT NEW CONSTRUCTION

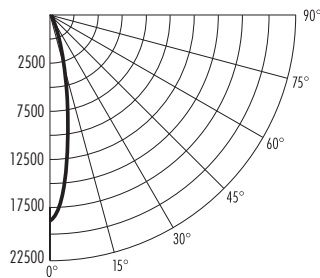
4SQD Trim with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PTO4160603R
Catalog No: AX4SQ A 32LM 30K
80CRI 12D EZB MVOLT
4SQD CD WET

Luminaire Spacing Criterion: 0.30
Luminaire LPW: 84



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	18836
5	14350
15	3906
25	569
35	120
45	42
55	14
65	5
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'	199	181	169
5.0'	127	116	108
6.0'	88	81	75
7.0'	72	65	61
8.0'	57	52	48
9.0'	43	40	37
10.0'	32	29	27

INITIAL FOOTCANDLES (One Unit, 33.6W, 16.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	523.2	1.8'
8	294.3	2.4'
10	188.4	3.0'
12	130.8	3.6'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2655	94.2
0-40°	2760	98.0
0-60°	2812	99.8
0-90°	2818	100.0

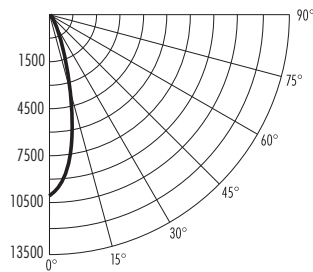
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	4473
55	1781
65	930
75	304
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PTO4160607R
Catalog No: AX4SQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQD CD WET

Luminaire Spacing Criterion: 0.44
Luminaire LPW: 83



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	10388
5	9334
15	4223
25	1028
35	214
45	45
55	17
65	7
75	2
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'	196	178	163
5.0'	125	114	104
6.0'	87	79	72
7.0'	71	64	59
8.0'	56	51	46
9.0'	43	39	35
10.0'	31	29	26

INITIAL FOOTCANDLES (One Unit, 33.6W, 26.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	288.6	2.8'
8	162.3	3.7'
10	103.9	4.7'
12	72.1	5.6'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2542	90.9
0-40°	2723	97.3
0-60°	2789	99.7
0-90°	2798	100.0

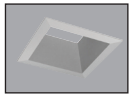
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	4709
55	2243
65	1255
75	531
85	0

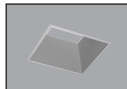
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQD Parabolic Downlight Trim



Self-Flanged



Flangeless

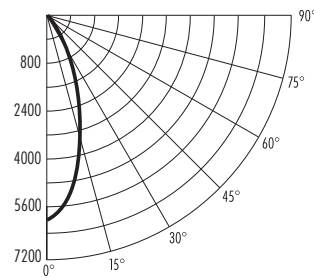


4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE DOWNLIGHT NEW CONSTRUCTION 4SQD Trim with WET option (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160712R
Catalog No: AX4SQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQD CD WET
Luminaire Spacing Criterion: 0.60
Luminaire LPW: 82



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	6068
5	5765
15	3730
25	1561
35	444
45	50
55	18
65	7
75	2
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'	193	170	153
5.0'	123	109	98
6.0'	86	76	68
7.0'	69	61	55
8.0'	55	48	44
9.0'	42	37	33
10.0'	31	27	25

INITIAL FOOTCANDLES

(One Unit, 33.6W, 36.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	168.6	3.9'
8	94.8	5.2'
10	60.7	6.5'
12	42.1	7.8'

ZONAL LUMEN SUMMARY

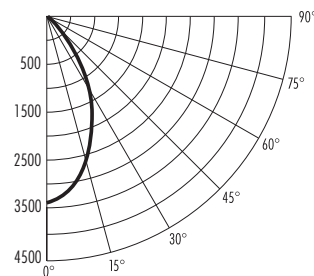
Zone	Lumens	%Fixture
0-30°	2318	84.2
0-40°	2645	96.1
0-60°	2744	99.7
0-90°	2753	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	5265
55	2295
65	1302
75	607
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160717R
Catalog No: AX4SQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQD CD WET
Luminaire Spacing Criterion: 0.78
Luminaire LPW: 77



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3482
5	3346
15	2637
25	1779
35	781
45	57
55	24
65	11
75	4
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'	181	158	138
5.0'	116	101	88
6.0'	80	70	61
7.0'	65	57	50
8.0'	51	45	39
9.0'	39	34	30
10.0'	29	25	22

INITIAL FOOTCANDLES

(One Unit, 33.6W, 52.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	96.7	5.9'
8	54.4	7.8'
10	34.8	9.8'
12	24.2	11.7'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1905	73.2
0-40°	2440	93.8
0-60°	2588	99.4
0-90°	2602	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6029
55	3168
65	1952
75	1063
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, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQDBV Downlight Bevel



Self-Flanged



Flangeless



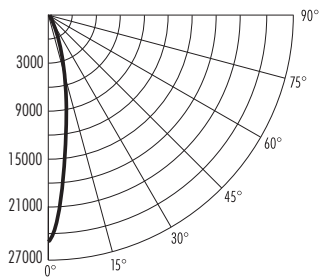
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE DOWNLIGHT BEVEL NEW CONSTRUCTION

4SQDBV Trim

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT04160602R
Catalog No: AX4SQ A 32LM 30K
80CRI 12D EZB MVOLT
4SQDBV BD
Luminaire Spacing Criterion: 0.24
Luminaire LPW: 78



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	25368
5	16921
15	3512
25	268
35	53
45	22
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'	187	172	163
5.0'	120	110	104
6.0'	83	77	72
7.0'	67	62	59
8.0'	53	49	46
9.0'	41	38	35
10.0'	30	28	26

INITIAL FOOTCANDLES

(One Unit, 33.6W, 13.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	704.7	1.4'
8	396.4	1.9'
10	253.7	2.3'
12	176.2	2.8'

ZONAL LUMEN SUMMARY

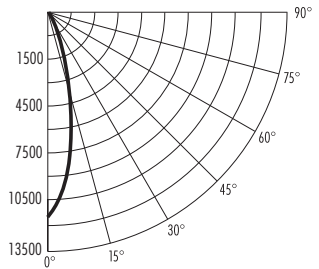
Zone	Lumens	%Fixture
0-30°	2560	97.4
0-40°	2609	99.3
0-60°	2628	100.0
0-90°	2628	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	4485
55	102
65	0
75	0
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160606R
Catalog No: AX4SQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQDBV BD
Luminaire Spacing Criterion: 0.44
Luminaire LPW: 78



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	11656
5	10407
15	4164
25	706
35	128
45	19
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'	185	169	156
5.0'	119	108	100
6.0'	82	75	69
7.0'	67	61	56
8.0'	53	48	44
9.0'	40	37	34
10.0'	30	27	25

INITIAL FOOTCANDLES

(One Unit, 33.6W, 25.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	323.8	2.7'
8	182.1	3.5'
10	116.6	4.4'
12	80.9	5.3'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2494	95.1
0-40°	2599	99.0
0-60°	2624	100.0
0-90°	2624	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3907
55	170
65	0
75	0
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, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQDBV Downlight Bevel



Self-Flanged



Flangeless



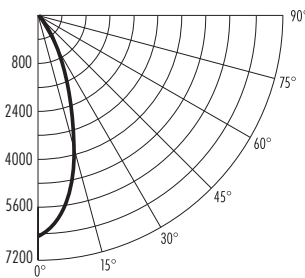
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE DOWNLIGHT BEVEL NEW CONSTRUCTION

4SQDBV Trim (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160711R
Catalog No: AX4SQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQDBV BD
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 79



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	6496
5	6215
15	3944
25	1374
35	373
45	31
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'	186	167	152
5.0'	119	107	97
6.0'	83	74	67
7.0'	67	60	55
8.0'	53	47	43
9.0'	41	36	33
10.0'	30	27	24

INITIAL FOOTCANDLES (One Unit, 33.6W, 35.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	180.4	3.8'
8	101.5	5.1'
10	65.0	6.3'
12	45.1	7.6'

ZONAL LUMEN SUMMARY

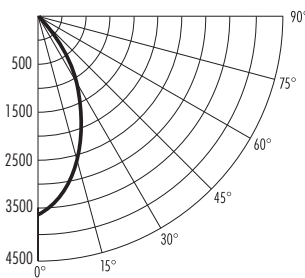
Zone	Lumens	%Fixture
0-30°	2346	88.1
0-40°	2607	97.9
0-60°	2664	100.0
0-90°	2664	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6521
55	170
65	0
75	0
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160716R
Catalog No: AX4SQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQDBV BD
Luminaire Spacing Criterion: 0.72
Luminaire LPW: 73



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3657
5	3457
15	2621
25	1708
35	744
45	24
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'	171	151	132
5.0'	109	97	85
6.0'	78	67	59
7.0'	61	54	48
8.0'	49	43	38
9.0'	37	33	29
10.0'	27	24	21

INITIAL FOOTCANDLES (One Unit, 33.6W, 49.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	101.6	5.5'
8	57.1	7.3'
10	36.6	9.2'
12	25.4	11.0'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1884	7605
0-40°	2371	96.3
0-60°	2462	100.0
0-90°	2462	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	4953
55	339
65	0
75	0
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, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQDBV Downlight Bevel



Self-Flanged



Flangeless

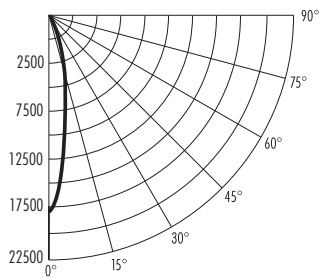
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN SQUARE DOWNLIGHT BEVEL NEW CONSTRUCTION

4SQDBV Trim with WET option

PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT04160604R
Catalog No: AX4SQ A 32LM 30K
80CRI 12D EZB MVOLT
4SQDBV BD WET
Luminaire Spacing Criterion: 0.30
Luminaire LPW: 72



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	17691
5	13452
15	3298
25	390
35	72
45	24
55	4
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'	171	157	147
5.0'	109	101	94
6.0'	76	70	65
7.0'	61	57	53
8.0'	49	45	42
9.0'	37	34	32
10.0'	27	25	23

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 17.2° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	491.4	1.8'
8	276.4	2.4'
10	176.9	3.0'
12	122.9	3.6'

ZONAL LUMEN SUMMARY

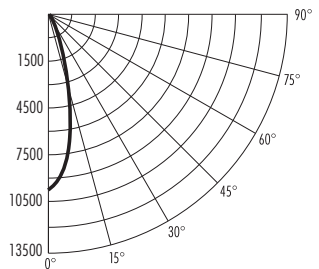
Zone	Lumens	%Fixture
0 - 30°	2329	96.3
0 - 40°	2390	98.8
0 - 60°	2417	100.0
0 - 90°	2418	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	4925
55	984
65	138
75	0
85	0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT04160608R
Catalog No: AX4SQ A 32LM 30K
80CRI 24D EZB MVOLT
4SQDBV BD WET
Luminaire Spacing Criterion: 0.44
Luminaire LPW: 72



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	9761
5	8794
15	3708
25	756
35	153
45	32
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'	171	154	142
5.0'	110	99	91
6.0'	76	69	63
7.0'	62	56	51
8.0'	49	44	40
9.0'	37	34	31
10.0'	27	25	23

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 25.9° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	271.1	2.8'
8	152.5	3.7'
10	97.6	4.6'
12	67.8	5.5'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	2258	93.2
0 - 40°	2382	98.3
0 - 60°	2422	99.9
0 - 90°	2423	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6714
55	1052
65	322
75	0
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, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQDBV Downlight Bevel



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

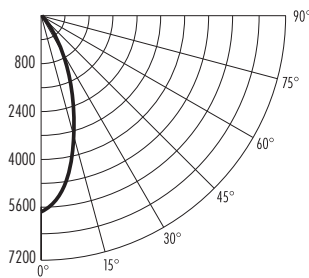
SQUARE DOWNLIGHT BEVEL NEW CONSTRUCTION

4SQDBV Trim with WET option (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160713R
Catalog No: AX4SQ A 32LM 30K
80CRI 35D EZB MVOLT
4SQDBV BD WET
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 73



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	5752
5	5470
15	3490
25	1310
35	372
45	68
55	6
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'	172	154	138
5.0'	110	98	89
6.0'	77	68	62
7.0'	62	55	50
8.0'	49	44	39
9.0'	38	33	30
10.0'	28	25	22

INITIAL FOOTCANDLES (One Unit, 33.6W, 35.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	159.8	2.6'
8	89.9	5.1'
10	57.5	6.4'
12	39.9	7.7'

ZONAL LUMEN SUMMARY

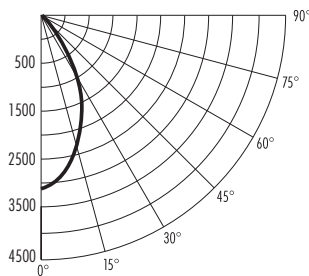
Zone	Lumens	%Fixture
0-30°	2110	85.8
0-40°	2374	96.5
0-60°	2458	99.9
0-90°	2460	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	14171
55	1493
65	460
75	0
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT04160718R
Catalog No: AX4SQ A 32LM 30K
80CRI 50D EZB MVOLT
4SQDBV BD WET
Luminaire Spacing Criterion: 0.74
Luminaire LPW: 67



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	Candelas
0°	3186
5	3050
15	2355
25	1523
35	642
45	101
55	6
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'	157	137	120
5.0'	100	88	77
6.0'	70	61	53
7.0'	56	49	43
8.0'	45	39	34
9.0'	34	30	26
10.0'	25	22	19

INITIAL FOOTCANDLES (One Unit, 33.6W, 49.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	88.5	5.6'
8	49.8	7.4'
10	31.9	9.3'
12	22.1	11.2'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1678	74.3
0-40°	2116	93.7
0-60°	2256	99.9
0-90°	2258	100.0

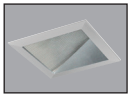
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	21105
55	1628
65	506
75	0
85	0

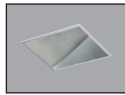
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Package	Lumen Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4SQWW Lensed Wall Wash



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

SQUARE LENSED WALL WASH NEW CONSTRUCTION

4SQWW Trim

PHOTOMETRICS

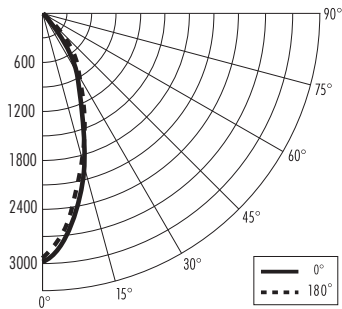
PHOTOMETRIC REPORT

Test Report #: PTO4160609R

Catalog No: AX4SQ A 32LM 30K 80CRI 24D EZB
MVOLT 4SQWW CD

Luminaire Spacing Criterion @ 90°: 0.66

Luminaire: 4" LED Downlight with Lensed
Wall Wash Trim



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°	180°
Vertical	Wall Wash	Downlight
0	2932	2932
5	2863	2747
10	2543	2367
15	2051	1896
20	1525	1442
25	1062	1064
30	699	762
35	458	536
40	312	370
45	226	245
50	174	150
55	141	77
60	116	27
65	91	13
70	67	7
75	45	4
80	29	1
85	7	0
90	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	1378	66.0
0 - 40°	1741	83.4
0 - 60°	2031	97.3
0 - 90°	2088	100.0
90 - 180°	0	0.0
0 - 180°	2088	100.0

LUMINANCE (Average cd/m²)

Average 180°	
Degrees	Downlight Luminance
45	23810
55	18342
65	16061
75	12980
85	5974

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall		2'			3'								
Fixture Centers (spacing)		2'		3'		3'		4'					
DISTANCE FROM CEILING	1'	20	19	20	17	12	17	9	9	9	8	7	8
	2'	37	36	37	28	23	28	16	16	16	14	12	14
	3'	45	46	45	34	31	34	20	20	20	17	15	17
	4'	50	50	50	36	35	36	25	26	25	18	18	18
	5'	50	50	50	35	34	35	25	26	25	20	20	20
	6'	46	46	46	33	33	33	26	27	26	21	21	21
	7'	41	41	41	30	30	30	27	27	27	21	22	21
	8'	36	37	36	27	27	27	26	26	26	21	21	21
	9'	30	30	30	22	22	22	23	23	23	18	18	18

LUMEN OUTPUT MULTIPLIERS

Color			Lumen	
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		