

PRODUCT SPECIFICATIONS

LED Light Engine 2-step MacAdam ellipse binning • 2700K, 3000K, 3500K, or 4000K CCTs available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI and 95 CRI minimum (R9>90).

Quiet, Glare-free Ceiling 45° visual cutoff to source and source image.

Modular Optics Available with 12°, 24°, 35° and 50° field interchangeable optics • 20°, 30°, 40°, 45° and 60° FWHM can be achieved with diffusing films and 12° optic • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes efficiency by maintaining optimal LED optic position • AX3SQ A accommodates three (3) beam control lenses and/or filters • AX3SQ LPA accepts two (2) beam control lenses and/or filters.

Adjustability Acu-Aim™ precision geared hot-aiming achieves 370° rotation, 45° tilt • Optimized center beam optics translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness.

Reflector Die cast, angle-cut, parabolic reflector maintains low glare • Available in clear diffuse, black diffuse, wheat diffuse, or white finishes.

Trims Styles Self Flanged and flangeless reflectors are available • Must specify FMA3SQ (gypsum) or SFM3SQ (wood/stone/tile) option for flangeless installations.

LED Driver Accommodates 120-277V input and multiple control protocols • For a list of compatible dimmers, refer to [ACXLIED3-DIM](#) • Power Factor > 0.9 • Field replaceable from below ceiling.

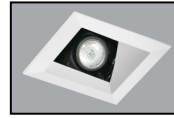
Life Rated for 50,000 hrs at 70% lumen maintenance.

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

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

Codes/Labels UL and cUL listed for through branch wiring, damp locations • Wet location listed with WET option • Meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® certified with select trims and housings • Can be used to comply with Title 24, Part 6 with select trims and housings • ICAT housings are rated for direct contact with insulation • AX3SQ 08LM/12LM/15LM (ICAT option) are compatible with spray foam insulation with an R-Value of 3.7 per inch or less • Union made.

3" LED RECESSED ADJUSTABLE
NEW CONSTRUCTION
ANGLE-CUT REFLECTOR
AX3SQ/3SQA
800 - 3000 LUMEN



Self-Flanged



Flangeless (Gypsum)



Flangeless (Wood/Stone/Tile)

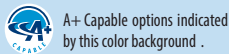
New Construction Mounting Features patented (US Patent 8,038,113) Pro-Vi™ bar hanger system • All fixtures except for 25LM ICAT also feature vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to drywall.

Housing Styles Universal housings are compatible with downlight, adjustable, and wall wash trims.

Junction Box Rated for 4 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" - 1 5/8" ceiling standard

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.



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Example: AX3SQ G4 20LM 30K 80CRI 50D FPC 120 3SQA W SF

Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ³	Options
AX3SQ A G4	New Construction Universal ADJ/DL/WW	08LM 800 Lumens	27K 2700K	12D 12° beam	GZ1 0-10V, 1% dim	120	CP ⁴ Chicago Plenum
		12LM 1200 Lumens	30K 3000K	24D 24° beam	EZ1 eldoLED 0-10V, 1% dim	277	ICAT ⁵ IC, Air-Tight
AX3SQ LPA G4	Low Profile Universal ADJ/DL/WW	15LM 1500 Lumens	35K 3500K	35D 35° beam	EZB eldoLED 0-10V, <1% dim	MVOLT (120-277)	NLIGHT ⁶ nLight dimming pack controls
		20LM 2000 Lumens	40K 4000K	50D 50° beam	FPC Phase cut dimming, 5% dim		
		25LM 2500 Lumens			ECOS2 Lutron Hi-Lume 2-wire forward phase, 1% dim		
		30LM ¹ 3000 Lumens			ECOD Lutron Hi-Lume EcoSystem, 1% dim		
				EDXB eldoLED DMX, <1% min			
				EDAB eldoLED DALI, 1% min			

Square Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
3SQA Angle-Cut Reflector	BD Black Diffuse	SELF FLANGED	WET Wet location (Clear Lens)	SELF-FLANGED
	CD Clear Diffuse	SF Self Flanged (Same finish as reflector)		CTA3SQ/125 Ceiling ≤ .875"
	W White Paint	WHSF Self Flanged, White painted flange		CTA3SQ/163 Ceiling 1.25" - 1.625"
	WTD Wheat Diffuse	FLANGELESS ⁷		FLANGELESS, GYPSUM
		FM Flangeless		FMA3SQ/087 Ceiling ≤ .875"
				FMA3SQ/125 Ceiling 0.875" - 1.25"
				FMA3SQ/163 Ceiling 1.25" - 1.625"
				FLANGELESS, WOOD/STONE/TILE ⁸
				SFM3SQ/100 (B,W) Ceiling ≤ 1.00"
				SFM3SQ/138 (B,W) Ceiling 1.00" - 1.375"
				SFM3SQ/163 (B,W) Ceiling 1.375" - 1.625"

Ordering Notes

¹ 30LM not available with LPA. ⁴ CP available up to 20LM for LPA; available up to 25LM for A. ⁷ Must specify flangeless ceiling installation (FMA3SQ or SFM3SQ).
² 90CRI and 95CRI available on 27K and 30K only. ⁵ ICAT not available with LPA at 25LM; not available with A at 30LM. ⁸ Specify finish: B=Black, W=White.
³ MVOLT standard on GZ1, EZ1, EZB, ECOD, EDXB, EDAB. 120 standard for FPC or ECOS2. ⁶ Must specify 120 or 277 volts. Available on EZ1 or EZB only.

3" LED RECESSED ADJUSTABLE NEW CONSTRUCTION ANGLE-CUT REFLECTOR AX3SQ/3SQA 800 - 3000 LUMEN

ACCESSORIES

Accessories			
3AXOPT/12D	12° Optic	IIS 35 HE	Up to 35W Remote Mount Micro Inverter (30LM Excluded)
3AXOPT/24D	24° Optic		
3AXOPT/35D	35° Optic		
3AXOPT/50D	50° Optic	DCCF 200 HL4250 DIFF 200 SOLITE 200 UVF 200 PRISM 200 LSPREAD 200 HCLBL 200	Daylight Blue Correction Lens Diffuse Spread Lens Uniformity Lens UV Filter Lens Prismatic Lens Linear Spread Lens Hexcell Louver
AF3/10	10° Diffusing Film		
AF3/20	20° Diffusing Film		
AF3/30	30° Diffusing Film		
AF3/40	40° Diffusing Film		
AF3/50	50° Diffusing Film		
AF3/60x1	60°x1° Diffusing Film		
HB1	Real Nail 3 Bar Hangers		
HB26	26" C-Channel Bar Hangers		
HB50	50" C-Channel Bar Hangers		
LB27	27" Linear Bar Hangers		

DIFFUSING FILMS

Desired FWHM	Primary Optic	Film
12°	12D	-
20°	12D	AF3/10
24°	24D	-
30°	12D	AF3/20
35°	35D	-
40°	12D	AF3/30
45°	12D	AF3/40
50°	50D	-
60°	12D	AF3/50
20°x60°	12D	AF3/60x1

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

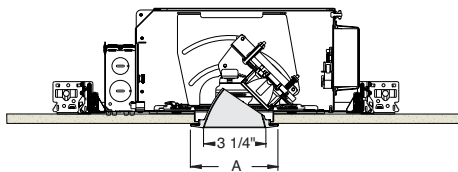
ELECTRICAL DATA

Lumen Package	08LM		12LM		15LM		20LM		25LM		30LM	
Voltage	120	277	120	277	120	277	120	277	120	277	120	277
Input Power	7.0	7.6	11.0	12.0	13.8	14.6	19.7	20.2	25.8	26.3	32.9	33.3
Input Current	0.03	0.06	0.09	0.05	0.12	0.06	0.17	0.08	0.22	0.1	0.28	0.13
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9

	CCT/CRI:	80CRI 27K, 30K, 35K, 40K
	Optic:	12D, 24D, 35D, 50D
	Reflector Finish:	BD, CD, WTD, W

	Construction:	ICAT
	CCT/CRI:	90CRI 27K, 30K
	Reflector Finish:	BD, CD, WTD, W

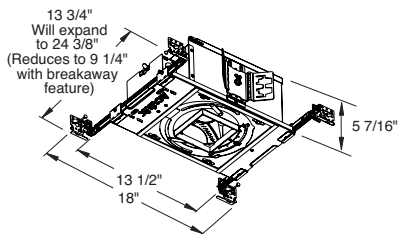
DIMENSIONS



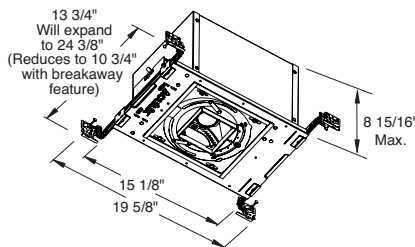
	A
Self Flanged	4 1/2"
Flangeless	3 5/8"

4 1/8" CEILING CUTOUT
(REFER TO INSTRUCTION SHEET FOR
FLANGELESS CEILING CUTOUT)

NEW CONSTRUCTION UNIVERSAL (AX3SQ A)

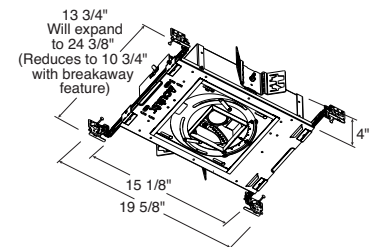


ICAT: 20LM & Less
Non-ICAT: 25LM & 30LM



ICAT: 25LM

LOW PROFILE UNIVERSAL (AX3SQ LPA)



ICAT: 20LM & Less
Non-ICAT: 25LM

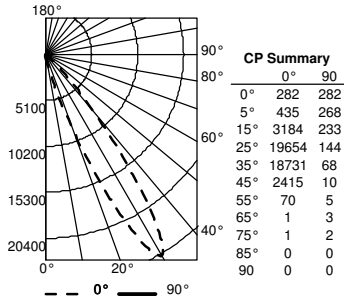
3" LED RECESSED ADJUSTABLE NEW CONSTRUCTION ANGLE-CUT REFLECTOR AX3SQ/3SQA 800 - 3000 LUMEN

PHOTOMETRICS

AX3SQ A G4 30LM 30K 80CRI 12D EZ1 MVOLT 3SQA CD

3000K LEDs, input watts: 32.6,
delivered lumens: 2609, LM/W = 80,
test no. PT03181201,
tested in accordance to IESNA LM-79

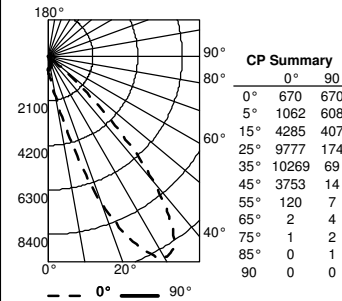
Beam Spread: 12D



AX3SQ A G4 30LM 30K 80CRI 24D EZ1 MVOLT 3SQA CD

3000K LEDs, input watts: 32.6,
delivered lumens: 2520, LM/W = 77,
test no. PT03181207,
tested in accordance to IESNA LM-79

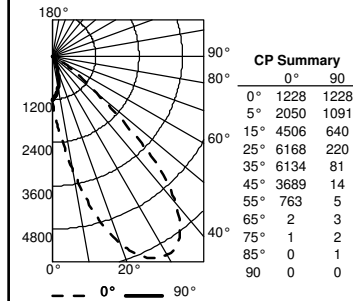
Beam Spread: 24D



AX3SQ A G4 30LM 30K 80CRI 35D EZ1 MVOLT 3SQA CD

3000K LEDs, input watts: 32.6,
delivered lumens: 2650, LM/W = 81,
test no. PT03181213,
tested in accordance to IESNA LM-79

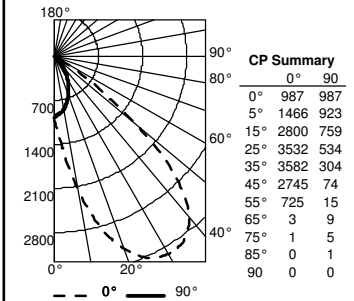
Beam Spread: 35D



AX3SQ A G4 30LM 30K 80CRI 50D EZ1 MVOLT 3SQA CD

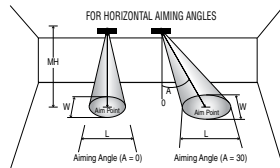
3000K LEDs, input watts: 32.6,
delivered lumens: 2209, LM/W = 68,
test no. PT03181219,
tested in accordance to IESNA LM-79

Beam Spread: 50D

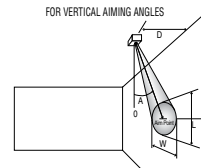


CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0°			30°			30°				45°					
		MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
12°	25803	6	717	1.7	1.7	466	2.2	1.9	3	358	5.2	3.5	1.7	1014	3.0	1.7	1.2
		8	403	2.2	2.2	262	3.0	2.6	4	202	6.9	4.7	2.2	570	4.0	2.3	1.6
		10	258	2.8	2.8	168	3.7	3.2	5	129	8.7	5.9	2.8	365	5.0	2.8	2.0
		12	179	3.3	3.3	116	4.5	3.8	6	90	10.4	7.1	3.3	253	6.0	3.4	2.4
		14	132	3.9	3.9	86	5.2	4.5	7	66	12.1	8.2	3.9	186	7.0	4.0	2.7
24°	10954	4	685	1.8	1.8	445	2.5	2.1	2	342	3.5	4.4	1.8	968	2.0	1.9	1.3
		6	304	2.8	2.8	198	3.7	3.2	3	152	5.2	6.6	2.8	430	3.0	2.9	2.0
		8	171	3.7	3.7	111	5.0	4.2	4	86	6.9	8.7	3.7	242	4.0	3.9	2.6
		10	110	4.6	4.6	71	6.2	5.3	5	55	8.7	10.9	4.6	155	5.0	4.9	3.3
		12	76	5.5	5.5	49	7.5	6.4	6	38	10.4	13.1	5.5	108	6.0	5.8	3.9
35°	6364	4	398	2.6	2.6	258	3.6	3.0	2	199	3.5	7.7	2.6	563	2.0	2.9	1.8
		6	177	3.9	3.9	115	5.4	4.5	3	88	5.2	11.5	3.9	250	3.0	4.4	2.8
		8	99	5.2	5.2	65	7.2	6.0	4	50	6.9	15.3	5.2	141	4.0	5.8	3.7
		10	64	6.5	6.5	41	9.0	7.5	5	32	8.7	19.1	6.5	90	5.0	7.3	4.6
		12	44	7.8	7.8	29	10.8	9.0	6	22	10.4	23.0	7.8	63	6.0	8.8	5.5
50°	3628	4	227	3.1	3.1	147	4.3	3.5	2	113	3.5	10.9	3.1	321	2.0	3.6	2.2
		6	101	4.6	4.6	65	6.4	5.3	3	50	5.2	16.4	4.6	143	3.0	5.4	3.2
		8	57	6.1	6.1	37	8.6	7.1	4	28	6.9	21.9	6.1	80	4.0	7.2	4.3
		10	36	7.7	7.7	24	10.7	8.8	5	18	8.7	27.3	7.7	51	5.0	9.0	5.4
		12	25	9.2	9.2	16	12.9	10.6	6	13	10.4	32.8	9.2	36	6.0	10.8	6.5

LUMEN OUTPUT MULTIPLIERS

CCT/CRI	Multiplier		
	80CRI	90CRI	95CRI
2700K	100%	86%	65%
3000K	100%	88%	69%
3500K	105%		
4000K	107%		

Lumens	Multiplier
30LM	100%
25LM	87%
20LM	70%
15LM	50%
12LM	40%
08LM	27%