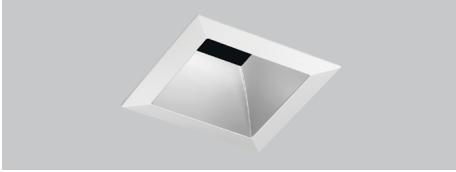
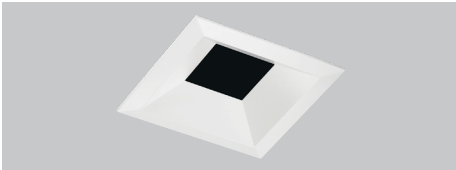


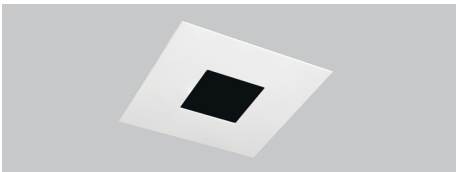
TRIM STYLES



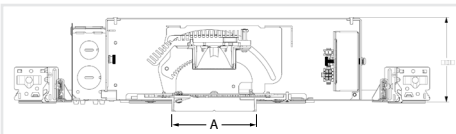
Reflector



Bevels



Pinholes



A Dimension:
Self Flanged: 4.5"
Flangeless: 3.625"

FEATURES

SPOT ON! OPTICS

- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics in 10 distributions.
- Patented self-adjusting optic holder accommodates up to 3 beam control lenses or filters (US Patent 8,950,911)

TRU-LINE™ PRECISION INSTALLATION

- Patented aperture translation features +/- 1/2" of translation ensures perfect fixture-to-fixture alignment (US Patent 8,277,090)
- Robust Pro-VI™ bar hangers provide robust, non-binding action. (US Patent 8,038,113)

EXCEPTIONAL PERFORMANCE FROM 3-INCH APERTURE

- Up to 2787 lumens delivered!
- Exceptionally consistent color with < 2SDCM for Static White & Tunable White; <1SDCM for WarmDim
- Excellent color rendition with 95+ CRI | 90+ R9 Available
- WarmDim® option mimics halogen dimming (3000K-1800K)
- Tunable White CCT range of 5000K –2700K

PERFORMANCE

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)
Static White*			
08LM	7	761	109
12LM	11	1117	102
15LM	14	1387	99
20LM	20	1961	98
25LM	26	2435	94
30LM	33	2787	84
WarmDim®			
08LM	14	752	54
12LM	20	1213	61
15LM	26	1501	58
Tunable White			
08LM	12	931	76
12LM	18	1391	77
15LM	20	1557	78
20LM	31	2193	71

*Performance with 3SQD trim at 30K | 80CRI (Static White), 30K | 90CRI (WarmDim) & 50K | 90CRI (Tunable White)

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



FLANGE STYLES



Self-Flanged



Flangeless (Gypsum)



Flangeless (Wood | Stone | Tile)



ORDERING INFORMATION

EXAMPLE: AX3SQ D 27LM 30K 95CRI 24D FPC 120 ICAT 3SQDBV BS WHSF

Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ⁴	Ratings	Options
AX3SQ D New Construction Fixed Downlight AX3SQ LPD Low Profile New Construction Fixed Downlight	Static White 08LM 800 lumens 12LM 1200 lumens 15LM 1500 lumens 20LM 2000 lumens 25LM 2500 lumens 30LM ¹ 3000 lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	80CRI 90CRI ² 95CRI ²	12D 12° beam 20D 20° beam 24D 24° beam 30D 30° beam 35D 35° beam 40D 40° beam 45D 45° beam 50D 50° beam 60D 60° beam 60D20D 60° x 20°	GZ1 0-10V 1% min EZ1 0-10V eldoLED linear 1% min EZB 0-10V eldoLED log <1% min EDXB eldoLED DMX square <1% min EDAB eldoLED DALI 6 log <1% min FPC Phase Cut Dimming 1% min ECOD Lutron EcoSystem 1% min	120 277 MVOLT (120-277)	(blank) Non-ICAT CP ⁵ Chicago Plenum ICAT ⁵ IC Rated, Air-tight	NLIGHT ⁶ nLight Dimming pack controls (Static White and WarmDim only) E6WT20R ⁷ Emergency 6W battery pack with remote test switch, T20 compliant
	WarmDim[®] 08LM 800 lumens 12LM 1200 lumens 15LM 1500 lumens	WDIM HALR 3000K - 1800K	90CRI	12D ³ 12° beam 15D ³ 15° beam 20D ³ 20° beam 24D 24° beam 35D 35° beam 40D 40° beam 50D 50° beam 60D20D 60° x 20°	GZ1 0-10V 1% min FPC Phase Cut Dimming 1% min			
	Tunable White 08LM 800 lumens 12LM 1200 lumens 15LM 1500 lumens 20LM 2000 lumens	TUWH 5000K - 2700K	90CRI	20D 20° beam 24D 24° beam 35D 35° beam 40D 40° beam 50D 50° beam 60D20D 60° x 20°	GZ1 0-10V 1% min NLT nLight nTune interface EDAB eldoLED DALI 6 log <1% min EDABT8 eldoLED DALI 8 log <1% min			

Downlight Trim	Reflector Finish	Flange Style	Trim Lens Environment	Ceiling Installation
Reflector 3SQD Deep Downlight Reflector 	W White Paint CD Clear Diffuse CS Clear Specular BS Black Specular WTD Wheat Diffuse	Flanged SF Self Flanged (same finish as reflector) WHSF Self Flanged, White Painted Flange (not available with W finish) Flangeless⁸ FM Flangeless	(blank) Open Damp Location WET Clear Wet Location	Flanged (blank) Ceiling Thickness < 0.875" CTA3SQ/125 Ceiling Thickness 0.875" - 1.25" CTA3SQ/163 Ceiling Thickness 1.25" - 1.625" Flangeless (Gypsum) FMA3SQ/087 Ceiling Thickness < 0.875" FMA3SQ/125 Ceiling Thickness 0.875" - 1.25" FMA3SQ/163 Ceiling Thickness 1.25" - 1.625" Flangeless (Wood Stone Tile)⁹ SFM3SQ/100 (B,W) Ceiling Thickness < 1.00" SFM3SQ/138 (B,W) Ceiling Thickness 1.00" - 1.375" SFM3SQ/163 (B,W) Ceiling Thickness 1.375" - 1.625"
Bevels 3SQDBV Downlight Bevel  3SQSHDBV Dead Front, Non Conductive Shower Downlight Bevel 	Upper Reflector (Shield) Finish BS Black Specular BD Black Diffuse	Trim Finish & Flange Style Flanged WHSF White, Flanged BLSF Black, Flanged Flangeless⁸ WHFM White, Flangeless BLFM Black, Flangeless	(blank) Open Damp Location WET Solite Wet Location	
Pinholes 3SQDPIN 1 1/4" Downlight Pinhole  3SQDPINLG 1 3/4" Downlight Pinhole 				



REFLECTOR FINISHES

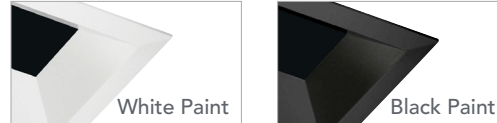


BEVEL & PINHOLE FINISHES

Upper Reflector Finish



Trim Finish



ORDERING NOTES

- 30LM not available with LPD
- 90CRI and 95CRI available on 27K and 30K only. Contact factory for other CCT/CRI combinations.
- For WDIM, 12D only available with 08LM ; 15D only available with 12LM; 20D only available with 15LM
- MVOLT standard on GZ1, EZ1, EZB, ECOD, EDXB, EDAB, EDABT8, NLT (unless NLIGHT). Must be 120 for FPC.
- CP or ICAT not available with LPD at 25LM; not available with D at 30LM; not available with 15LM WDIM or 20LM TUWH
- Must specify 120 or 277 volts for NLIGHT; MVOLT for NLT. NLIGHT only available with EZ1, EZB (for static white) or GZ1 (for warmDim). NLIGHT and NLT not available with CP.
- E6WT20R not available with WDIM, TUWH, EDXB, CP, ICAT, or NLIGHT.
- Must specify FMA3SQ or SFM3SQ option.
- Specify finish: B = Black, W = White.

ACCESSORIES

Beam Control Lenses & Filters		Replacement Optics		Optional Installation Accessories	
DIFF 200	Diffuse Spread lens	Static White Optics		WarmDim Optics	
SOLITE 200	Solite Uniformity Lens	3AXOPT/12D	12° Beam	3AXWDOPT/12D	12° Beam
PRISM 200	Prismatic Lens	3AXOPT/20D	20° Beam	3AXWDOPT/15D	15° Beam
LSPREAD 200	Linear Spread Lens	3AXOPT/24D	24° Beam	3AXWDOPT/20D	20° Beam
HCLBL 200	Hexcell Louver	3AXOPT/30D	30° Beam	3AXWDOPT/24D	24° Beam
UVF 200	UV Filter Lens	3AXOPT/35D	35° Beam	3AXWDOPT/35D	35° Beam
DCCF 200 HAL4250	Daylight Blue Correction	3AXOPT/40D	40° Beam	3AXWDOPT/40D	40° Beam
		3AXOPT/45D	45° Beam	3AXWDOPT/50D	50° Beam
		3AXOPT/50D	50° Beam	3AXWDOPT/60D20D	60°x20° Beam
		3AXOPT/60D	60° Beam		
		3AXOPT/60D20D	60°x20° Beam	Tunable White Optics	
				3AXTWOPT/20D	20° Beam
				3AXTWOPT/24D	24° Beam
				3AXTWOPT/35D	35° Beam
				3AXTWOPT/40D	40° Beam
				3AXTWOPT/50D	50° Beam
				3AXTWOPT/60D20D	60°x20° Beam
				Bar Hangers	
				HB1	Juno Real Nail® 3 Bar Hangers
				HB26	26" C-Channel Bar Hangers
				HB50	50" C-Channel Bar Hangers
				LB27	27" Linear Bar Hangers
				Note: Fixture supplied with Pro-VI™ Bar Hangers	
				Emergency Inverter	
				IIS 35 HE	Up to 35W Remote Mount Micro Inverter (30LM Excluded)



PRODUCT SPECIFICATIONS

FIELD INTERCHANGEABLE LED LIGHT ENGINE

- Future proof and easy to maintain-serviceable from below the ceiling

Static White:

- <2SDCMBinning
- 2700K|3000K|3500K|4000KCCT
- 80+CRI available for all CCTs
- 90+CRI available for 2700K,3000K
- 95+ CRI (>90 R9) available for 2700K, 3000K

WarmDim:

- Proprietary WarmDim technology mimics halogen, with CCT shifting from 3000K to 1800K when dimmed.
- <1SDCM Binning, 90+CRI

Tunable White:

- Tunable CCT range 5000K to 2700K
- <2 SDCM Binning, 90+ CRI

SPOT-ON! PRECISION OPTICS

- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics delivering high centerbeam downlighting in 12° FWHM to 60° FWHM.
- Patented auto-adjusting optic holder (US Patent 8,950,911). Static White fixtures accommodate up to three (3) beam control lenses and/or filters for AX3SQ D and up to two (2) for AX3SQ LPD. WarmDim and Tunable White fixtures accommodate up to two (2) beam control lenses and/or filters.
- UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60°, per CIE 117-1996 Discomfort Glare in Interior Lighting. [UGR FAQs](#)

HIGH QUALITY TRIMS

- Available with die cast aluminum bevels, pinholes, and reflectors.
- Non-corrosive, polycarbonate bevel option for shower applications
- Available in Self Flanged and Flangeless
- Must specify FMA3SQ for gypsum flangeless installation
- Must specify SMF3SQ for wood, stone, tile flangeless installation

FIELD REPLACEABLE DRIVER

- Accommodates 120-277V input and multiple control protocols
- Dims without perceived flicker to <1% depending on driver specified
- Field replaceable without tools from below the ceiling
- >0.9 Power Factor

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/resources/buy-american for additional information.

WARRANTY & RATED LIFE

- LED is rated for >50,000 hours at 70% lumen maintenance
- 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: <https://www.acuitybrands.com/support/warranty/terms-and-conditions>

EMERGENCY BATTERY

- Provides a minimum of 600 lumens (3SQD, 3000K, 80CRI) for minimum duration of 90 minutes.
- Accessible below ceiling for simple service; Self-Testing
- Supplied with Class-2 plenum rated remote test switch
- CEC T20 Compliant

NEW CONSTRUCTION MOUNTING

- Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system compatible with wood stud and T-bar
- Includes vertically adjustable mounting brackets (butterfly brackets) *Excluding 25LM ICAT housings
- 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 finishing the ceiling.

JUNCTION BOX

- ICAT Rated for (4) No. 12 AWG 90°C through branch circuit conductors.
- Includes (6) 1/2", (1) 3/4", (4) Non-metallic sheathed cable knock-outs.
- Push-in electrical connectors for field connections.

CODES & LABELS

- UL & cUL listed for through branch wiring, damp location
- 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. Reference T24 JA-8 database for list of compliant housings and trims.
- Static White ICAT housings* are rated for direct contact with insulation, including open and closed cell spray foam with a maximum R-value of 7.2R/in. This allows use in ceiling cavities insulated up to R60. WDIM and TUWH ICAT housings* are rated for direct contact with insulation, including open cell spray foam with a maximum R-value of 3.8R/in. They are not suitable for use with closed cell spray foam. *Note: Options: "25LM ICAT", "15LM TUWH ICAT", "ECOD", "EDXB", & "NLIGHT" are excluded and not suitable for use with spray foam insulation.
- 3SQSHDBV option can be used to comply with dead front and/or non-conductive lighting electrical code requirements. Flanged (SF) version is certified to IP65
- Union made

CEILING THICKNESS

- Accommodates 1/2" to 1.625" ceiling thickness

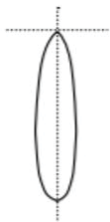
A+ CAPABLE LUMINAIRE

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning, when used with Acuity Brands controls products.

- All configurations of this luminaire are calibrated and tested to meet the Acuity Brand's specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

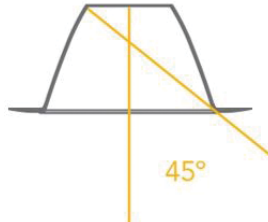
To learn more about Acuity A+ standards, specifications and testing, visit www.acuitybrands.com/aplus.

Spot On! Precision Optics



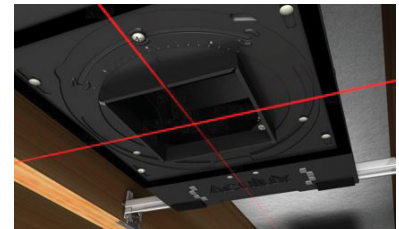
Smooth striation-free beam with high centerbeam distribution

Exceptional Brightness and Glare Control



45° visual cutoff to source and source image

Tru-Line™ Precision Installation



Pro-VI™ bar hangers, coupled with +/-1/2" aperture translation and +/-45° aperture rotation makes perfect installation achievable

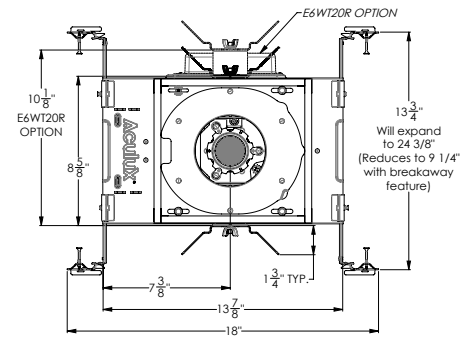
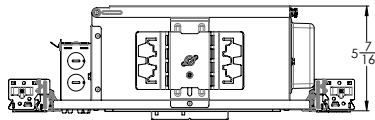
DIMENSIONS

Ceiling Cutout: 4-1/8" x 4-1/8" (Refer to installation instructions for flangeless ceiling cutout)

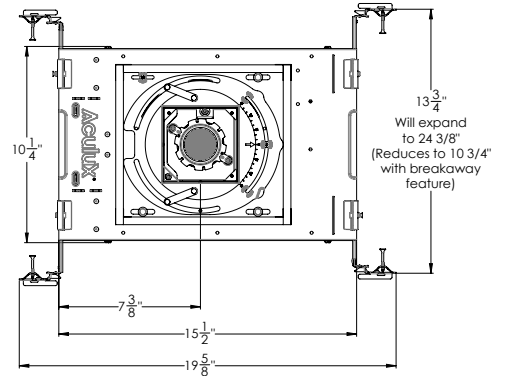
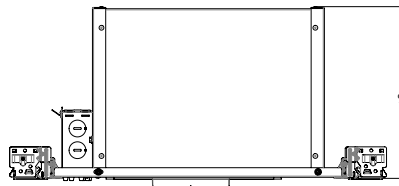
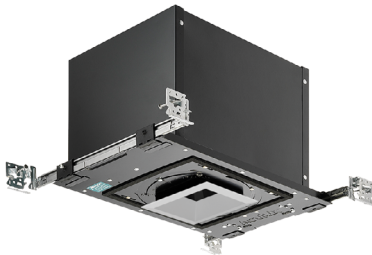
New Construction Downlight (AX3SQ D)

ICAT/Non-ICAT: 08LM | 12LM | 15LM | 20LM

Non-ICAT: 25LM | 30LM



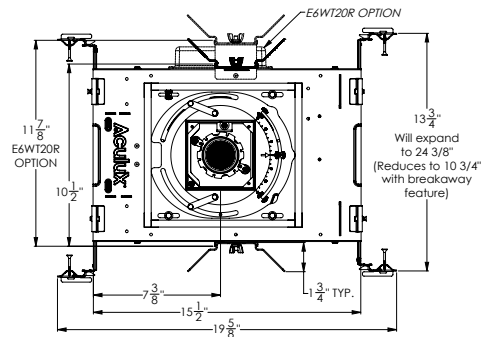
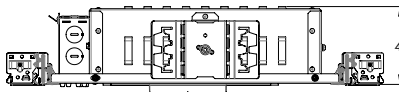
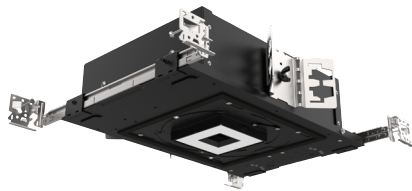
ICAT: 25LM



Low Profile New Construction Downlight (AX3SQ LPD)

ICAT/Non-ICAT: 08LM | 12LM | 15LM | 20LM

Non-ICAT: 25LM



ELECTRICAL SPECIFICATIONS

Static White

LUMEN PACKAGE	08LM	12LM	15LM	20LM	25LM	30LM
Voltage	120 277	120 277	120 277	120 277	120 277	120 277
Input Watts	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 0.10	0.28 0.13
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power Factor	0.9 MIN.	0.9 MIN.	0.9 MIN.	0.9 MIN.	0.9 MIN.	0.9 MIN.

WarmDim

08LM	12LM	15LM
120 277	120 277	120 277
14.1 14.5	20.0 20.3	25.8 25.9
0.12 0.05	0.17 0.08	0.22 0.10
50/60 Hz	50/60 Hz	50/60 Hz
0.9 MIN.	0.9 MIN.	0.9 MIN.

Tunable White

08LM	12LM	15LM	20LM
120 277	120 277	120 277	120 277
12.1 12.8	18.4 18.9	21.1 21.6	31.0 31.0
0.10 0.05	0.15 0.07	0.18 0.08	0.26 0.11
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
0.9 MIN.	0.9 MIN.	0.9 MIN.	0.9 MIN.



PHOTOMETRICS - 3SQD

Tested in accordance to IESNA LM79

12 Degree Beam

AX3SQ G4 30LM 30K 80CRI 12D EZ1 MVOLT + 3SQD CD 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2742, LM/W: 83.3, Test No: PT03180801

	CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)
						pf	20%	20%	20%	20%	20%	20%	20%	20%	20%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
		0°	Zone	Lumens	% Fixture	80%	80%	80%	70%	70%	70%	50%	50%	50%	50%				
						50%	50%	30%	10%	50%	30%	10%	50%	30%	10%				
0°	0°	25999	0° - 30°	2672	101%	0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	6.0 ft	722.2 fc	1.7 ft	0° 3838788
10°	5°	19472	0° - 40°	2726	103%	1	1.14	1.12	1.11	1.12	1.10	1.09	1.08	1.07	1.06	8.0 ft	406.2 fc	2.2 ft	45° 1503
20°	15°	3062	0° - 60°	2739	103%	1	1.10	1.07	1.05	1.08	1.06	1.04	1.05	1.03	1.01	10.0 ft	260.0 fc	2.8 ft	55° 901
30°	25°	316	0° - 90°	2742	103%	2	1.10	1.07	1.05	1.08	1.06	1.04	1.05	1.03	1.01				
40°	35°	52	90° - 180°	0	0%	3	1.06	1.03	1.00	1.05	1.02	1.00	1.02	1.00	0.98	12.0 ft	180.5 fc	3.4 ft	65° 699
50°	45°	7	0° - 180°	2742	103%	4	1.03	1.00	0.97	1.02	0.99	0.96	1.00	0.97	0.95	14.0 ft	132.6 fc	3.9 ft	75° 513
60°	55°	4				5	1.00	0.97	0.94	0.99	0.96	0.94	0.98	0.95	0.93				
70°	65°	2				6	0.98	0.94	0.92	0.97	0.94	0.92	0.96	0.93	0.91				
80°	75°	1				7	0.96	0.92	0.90	0.95	0.92	0.90	0.94	0.91	0.89				
90°	85°	0				8	0.94	0.90	0.88	0.93	0.90	0.88	0.92	0.90	0.88				
	90°	0				9	0.92	0.89	0.87	0.92	0.88	0.86	0.91	0.88	0.86				
						10	0.90	0.87	0.85	0.90	0.87	0.85	0.89	0.87	0.85				

24 Degree Beam

AX3SQ G4 30LM 30K 80CRI 24D EZ1 MVOLT + 3SQD CD 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2804, LM/W: 85.2, Test No: PT03182001

	CP Summary	Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					pf	20%	20%	20%	20%	20%	20%	20%	20%	20%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
					pc	80%	80%	70%	70%	50%	50%	50%	50%						
					pw	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	0'	Zone	Lumens	% Fixture	0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	6.0 ft	316.9	3.0 ft	0°	1684279
5°	5'	0° - 30°	2703	98%	1	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.06	1.04	8.0 ft	178.2	4.0 ft	45°	1462
10°	10'	0° - 40°	2787	101%	2	1.08	1.05	1.02	1.06	1.04	1.01	1.03	1.01	0.99	10.0 ft	114.1	5.0 ft	55°	850
15°	15'	0° - 60°	2801	101%	3	1.03	1.00	0.97	1.02	0.99	0.96	1.00	0.97	0.95	12.0 ft	79.2	6.0 ft	65°	629
20°	20'	0° - 90°	2804	101%	4	0.99	0.96	0.93	0.98	0.95	0.92	0.96	0.93	0.91	14.0 ft	58.2	7.0 ft	75°	513
25°	25'	0° - 180°	2804	101%	5	0.96	0.92	0.89	0.95	0.91	0.89	0.93	0.90	0.88				85°	339
30°	30'				6	0.93	0.89	0.86	0.92	0.88	0.85	0.91	0.87	0.85					
35°	35'				7	0.90	0.86	0.83	0.89	0.85	0.83	0.88	0.85	0.82					
40°	40'				8	0.87	0.83	0.80	0.87	0.83	0.80	0.86	0.82	0.80					
45°	45'				9	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.78					
50°	50'				10	0.82	0.78	0.76	0.82	0.78	0.76	0.81	0.78	0.75					
55°	55'																		
60°	60'																		
65°	65'																		
70°	70'																		
75°	75'																		
80°	80'																		
85°	85'																		
90°	90'																		

35 Degree Beam

AX3SQ G4 30LM 30K 80CRI 35D EZ1 MVOLT + 3SQD CD 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2807, LM/W: 85.3, Test No: PT03182007

|--|

50 Degree Beam

AX3SQ G4 30LM 30K 80CRI 50D EZ1 MVOLT + 3SQD CD 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2339, LM/W: 71.1, Test No: PT03182013

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI	08LM	12LM	15LM	20LM	25LM	30LM
2700K	1.00	0.86	0.65	0.27	0.40	0.50	0.70	0.87	1.0
3000K	1.00	0.88	0.69						
3500K	1.05	-	-						
4000K	1.07	-	-						

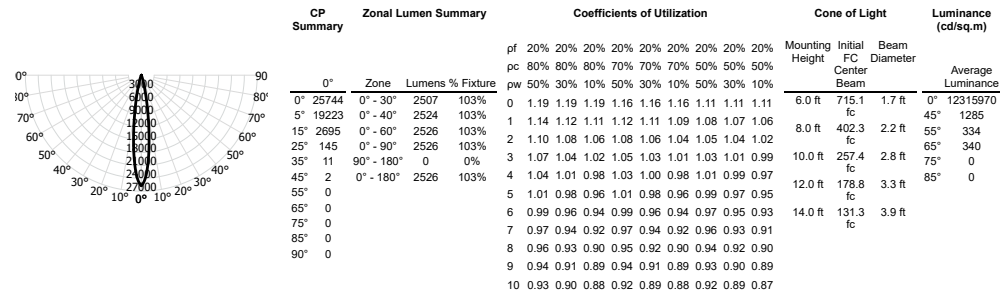
*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

PHOTOMETRICS - 3SQDBV

Tested in accordance to IESNA LM79

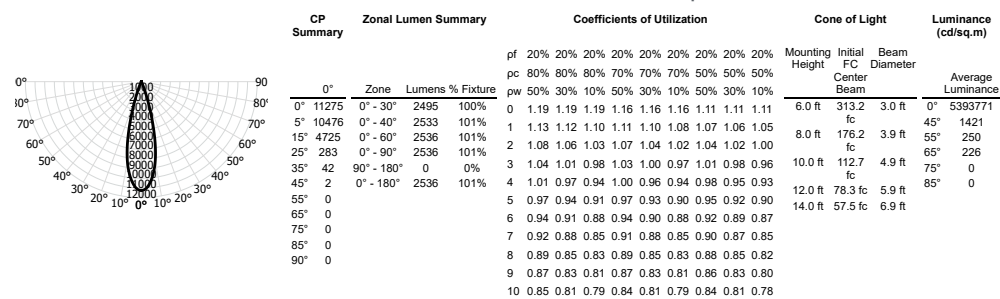
12 Degree Beam

AX3SQ G4 30LM 30K 80CRI 12D EZ1 MVOLT + 3SQDBV BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2526, LM/W: 76.8, Test No: PT03180804



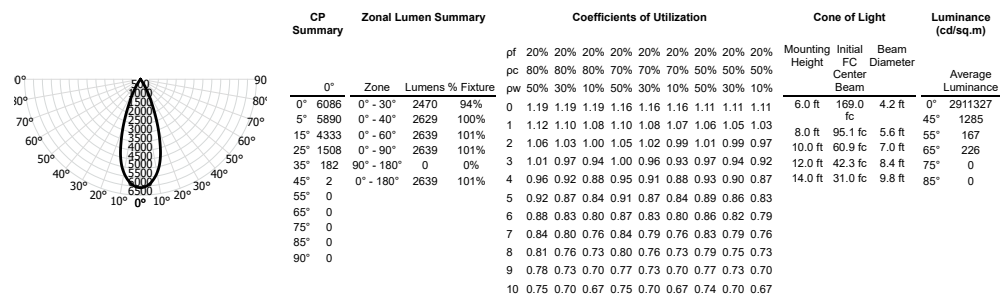
24 Degree Beam

AX3SQ G4 30LM 30K 80CRI 24D EZ1 MVOLT + 3SQDBV BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2536, LM/W: 77.1, Test No: PT03182004



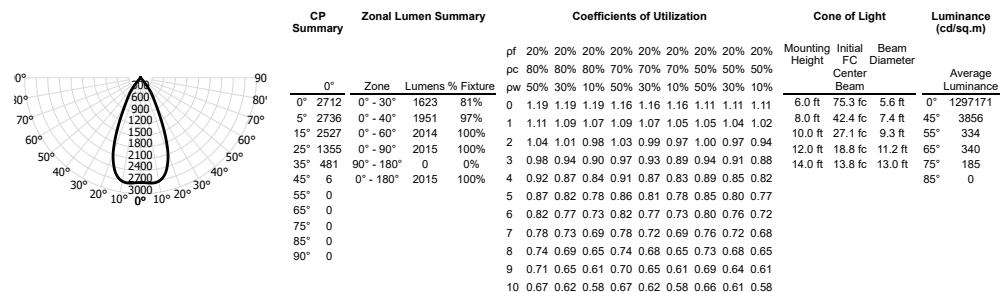
35 Degree Beam

AX3SQ G4 30LM 30K 80CRI 35D EZ1 MVOLT + 3SQDBV BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2639, LM/W: 80.2, Test No: PT03182010



50 Degree Beam

AX3SQ G4 30LM 30K 80CRI 50D EZ1 MVOLT + 3SQDBV BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 2015, LM/W: 61.2, Test No: PT03182016



LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	1.00	0.86	0.65
3000K	1.00	0.88	0.69
3500K	1.05	-	-
4000K	1.07	-	-

08LM	12LM	15LM	20LM	25LM	30LM
0.27	0.40	0.50	0.70	0.87	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)



PHOTOMETRICS - 3SQDPIN

Tested in accordance to IESNA LM79

12 Degree Beam

AX3SQ G4 30LM 30K 80CRI 12D EZ1 MVOLT + 3SQDPIN BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 1734, LM/W: 52.7, Test No: PT03180803

CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)
	0°	Zone	Lumens	% Fixture	pf	20%	20%	20%	20%	20%	20%	20%	20%	20%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
					pc	80%	80%	80%	70%	70%	70%	50%	50%	50%				
	0°	0° - 30°	1732	104%	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	6.0 ft	571.6 fc	1.6 ft	0° 22150727
	5°	0° - 40°	1734	104%	0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	8.0 ft	321.5 fc	2.2 ft	45° 304
	15°	0° - 60°	1734	104%	1	1.14	1.13	1.12	1.12	1.11	1.10	1.08	1.07	1.06	10.0 ft	205.8 fc	2.7 ft	55° 375
	25°	0° - 90°	1734	104%	2	1.11	1.08	1.06	1.09	1.07	1.05	1.06	1.04	1.03	12.0 ft	142.9 fc	3.2 ft	65° 255
	35°	90° - 180°	0	0%	3	1.08	1.05	1.03	1.06	1.04	1.02	1.04	1.02	1.00	14.0 ft	105.0 fc	3.8 ft	75° 416
	45°	0° - 180°	1734	104%	4	1.05	1.02	1.00	1.04	1.01	0.99	1.02	1.00	0.98				85° 0
	55°	0			5	1.03	1.00	0.98	1.02	0.99	0.97	1.01	0.98	0.97				
	65°	0			6	1.01	0.98	0.96	1.01	0.98	0.96	0.99	0.97	0.95				
	75°	0			7	0.99	0.97	0.95	0.99	0.96	0.94	0.98	0.96	0.94				
	85°	0			8	0.98	0.95	0.93	0.98	0.95	0.93	0.97	0.94	0.93				
	90°	0			9	0.97	0.94	0.92	0.96	0.94	0.92	0.96	0.93	0.92				
					10	0.96	0.93	0.91	0.95	0.93	0.91	0.95	0.92	0.91				

24 Degree Beam

AX3SQ G4 30LM 30K 80CRI 24D EZ1 MVOLT + 3SQDPIN BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 1888, LM/W: 57.4, Test No: PT03182003

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35 Degree Beam

AX3SQ G4 30LM 30K 80CRI 35D EZ1 MVOLT + 3SQDPIN BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 1984, LM/W: 60.3, Test No: PT03182009

	CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)
	0°	Zone	Lumens	% Fixture	pf	20%	20%	20%	20%	20%	20%	20%	20%	20%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
					pc	80%	80%	80%	70%	70%	70%	50%	50%	50%					
	0°	0° - 30°	1937	99%	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	6.0 ft	168.0 fc	3.2 ft	0° 6511089	
	5°	0° - 40°	1983	101%	0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	8.0 ft	94.5 fc	4.3 ft	45° 761	
	15°	0° - 60°	1984	101%	1	1.13	1.11	1.09	1.10	1.09	1.07	1.07	1.05	1.04	10.0 ft	60.5 fc	5.4 ft	55° 375	
	25°	0° - 90°	1984	101%	2	1.07	1.04	1.01	1.05	1.03	1.00	1.02	1.00	0.98	12.0 ft	42.0 fc	6.4 ft	65° 255	
	35°	90° - 180°	0	0%	3	1.02	0.98	0.95	1.01	0.97	0.95	0.98	0.96	0.93	14.0 ft	30.9 fc	7.5 ft	75° 416	
	45°	0° - 180°	1984	101%	4	0.98	0.94	0.91	0.97	0.93	0.90	0.95	0.92	0.89				85° 1235	
	55°	0			5	0.94	0.90	0.86	0.93	0.89	0.86	0.91	0.88	0.85					
	65°	0			6	0.90	0.86	0.83	0.90	0.85	0.82	0.88	0.85	0.82					
	75°	0			7	0.87	0.83	0.79	0.86	0.82	0.79	0.85	0.82	0.79					
	85°	0			8	0.84	0.80	0.77	0.83	0.79	0.76	0.83	0.79	0.76					
	90°	0			9	0.81	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73					
					10	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.74	0.71					

50 Degree Beam

AX3SQ G4 30LM 30K 80CRI 50D EZ1 MVOLT + 3SQDPIN BS 3000K LEDs, Input Watts: 32.9, Delivered Lumens: 1064, LM/W: 32.3, Test No: PT03182015

	CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)
	0°	Zone	Lumens	% Fixture	pf	20%	20%	20%	20%	20%	20%	20%	20%	20%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
					pc	80%	80%	80%	70%	70%	70%	50%	50%	50%					
	0°	0° - 30°	1055	100%	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	6.0 ft	74.5 fc	4.1 ft	0° 2888603	
	5°	0° - 40°	1063	101%	0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	8.0 ft	41.9 fc	5.5 ft	45° 304	
	15°	0° - 60°	1063	101%	1	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	10.0 ft	26.8 fc	6.9 ft	55° 188	
	25°	0° - 90°	1064	101%	2	1.07	1.04	1.02	1.06	1.03	1.00	1.02	1.00	0.98	12.0 ft	18.6 fc	8.3 ft	65° 255	
	35°	90° - 180°	0	0%	3	1.02	0.99	0.96	1.01	0.98	0.95	0.99	0.96	0.94	14.0 ft	13.7 fc	9.7 ft	75° 416	
	45°	0° - 180°	1064	101%	4	0.98	0.94	0.91	0.97	0.93	0.90	0.95	0.92	0.89				85° 0	
	55°	0			5	0.94	0.90	0.87	0.93	0.89	0.86	0.92	0.88	0.86					
	65°	0			6	0.91	0.86	0.83	0.90	0.86	0.83	0.89	0.85	0.82					
	75°	0			7	0.88	0.83	0.80	0.87	0.83	0.80	0.86	0.82	0.79					
	85°	0			8	0.84	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.77					
	90°	0			9	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.77	0.74					
					10	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72					

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI	08LM	12LM	15LM	20LM	25LM	30LM
2700K	1.00	0.86	0.65	0.27	0.40	0.50	0.70	0.87	1.0
3000K	1.00	0.88	0.69						
3500K	1.05	-	-						
4000K	1.07	-	-						

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)



DIMMER COMPATIBILITY

Phase Dimming (FPC) - Incandescent, Magnetic Low Voltage and Electronic Low Voltage Dimming

- Dimming range of 100% down to as low as 1% a minimum load of one fixture
- Dimming range and maximum rated load vary depending on dimmer type and model. See maximum load calculations below to identify max number of luminaires per dimmer.

Incandescent (INC) and Magnetic Low Voltage (MLV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
 Equivalent Incandescent Load (EIL) = 50%
 $(600/13W) \times 0.5 = 23$ Fixtures per Dimmer

Electronic Low Voltage (ELV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
 Equivalent Incandescent Load (EIL) = 75%
 $(600/13W) \times 0.75 = 34$ Fixtures per Dimmer

INCANDESCENT, MLV, ELV WALL DIMMERS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	Glyder	GLV*	MLV	2
Leviton	SureSlide	6633*	INC	2
Lutron	Diva	DVLV	MLV	6
Lutron	Diva	DV*	INC	2
Lutron	Skylark	SLV*	MLV	3
Lutron	RadioRA 2	RRD-6D*	INC	2
Lutron	RadioRA 2	RRD-10ND*	INC	2
Leviton	SureSlide	6613	MLV	5
Leviton	IllumaTech	IPL06-10Z*	INC	3
Lutron	Diva	DVCL	INC	3
Insteon	Keypad Dimmer	2334-232	INC	2
Insteon	Dimmer Switch	2477D*	INC	2
Control4	Forward Phase Dimmer	C4-FPD 120	INC	2
Lutron	Nova	NTELV	ELV	6
Lutron	Diva	DVELV*	ELV	2
Lutron	Lutron Maestro	MAELV*	ELV	5
Leviton	Vizia	VPE06-1LX	ELV	2
Leviton	Illumatech	IPE04*	ELV	5
Lutron	Lutron RadioRA2	RRD-6NA	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2
Lutron	RadioRA2	RRD-6NA*	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2

INTEGRATED CONTROL SYSTEMS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	LP	LP-RPM-4U	INC	5
Lutron	LP	LP-RPM-4A*	PHA	2
Lutron	GrafikEye QS	QSGRJ-3P	PHA	2
Lutron	GrafikEye QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	2
Acuity	nLight nSP5PCD ELV	nSP5PCD*	ELV	4
Insteon	Micro Module Dimmer	2442-222*	INC	2
Control4	8 Ch Dimmer	C4-DIN-8DIM-E	PHA	2

*: Aculux recommended dimmers

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Sensor Switch	WPD	WPD*	INC	1
Leviton	Illmatech	IPM06-1LZ	MLV	3
Leviton	Illmatech	IPI06-1LZ	INC	2
Lutron	Diva	DVCL	INC	1
Leviton	SureSlide	6633*	INC	1
Leviton	SureSlide	6613*	MLV	1
Leviton	SureSlide	IPL06	INC	1
Control4	Forward phase dimmer	C4-FPD 120 FWD*	INC	1
Lutron	Diva	DVELV*	ELV	1
Lutron	Maestro	MAELV*	ELV	1
Lutron	Vive	MRF25-6ELV*	ELV	1
Lutron	Caseta	PD-5NE*	ELV	1
Leviton	Illumatech	IPE04	ELV	4
Lutron	Maestro	RRD-PRO REV	PHA	1
Control4	Phase Adaptive Dimmer	C4-APD 120*	PHA	1
Lutron	Maestro	RRD-PRO FWD*	PHA	1

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Acuity	nLight nSP5PCD ELV	nSP5PCD ELV*	ELV	1
Acuity	nLight nSP5PCD ELV	PCDM*	ELV	1
Acuity	Fresco LMPM	LMPM 2D 2L*	PHA	1
Lutron	LP	LP-RPM-4A *	PHA	1
Lutron	LP	LP-RPM-4U*	INC	1
Lutron	GrafikEye QS	Lutron PHPM-PA-120*	PHA	1
Lutron	GrafikEye QS	Lutron Grafik Eye QSGRJ-3P*	MLV	1
Lutron	HomeWorks QS	PHPM-PA-120*	PHA	1
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	1
Legrand	Wattstopper	LMRC-221-U*	PHA	1
Control4	8 Ch Dimmer	C4-DIN-8DIM-E*	PHA	1
Crestron	Phase Adaptive Dimmer	6501748*	PHA	1


0-10V Dimming (GZ1, EZ1, EZB drivers)
WALL DIMMERS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	Diva	DVTV	0-10V	1	<1
Lutron	Nova	NFTV	0-10V	1	<1
Lutron	Nova T	NTFTV	0-10V	1	<1

INTEGRATED CONTROL SYSTEMS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	GrafikEye QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVM2*	0-10V	1	<1
Lutron	LCP128	GRX-TVI*	0-10V	1	<1
Lutron	LCP128	GRX-TVM2*	0-10V	1	<1
Lutron	LP	GRX-TVM2*	0-10V	1	<1
Lutron	RadioRA2	LMJ-5T-DV-B	0-10V	1**	<1
Crestron	GreenLight	DIN-4DIMFLV4	0-10V	1	<1
Lutron	Energi Tripak	RMJ-5T-DV-B	0-10V	1	<1
Wattstopper	DLM	LMRC-211	0-10V	1	<1
Insteon	Ballast Dimmer	2475DA2	0-10V	1	<1

*: Aculux recommended dimmers

**:: Not tested with -GZ1

+: Requires a separate relay module to turn luminaire on/off