BEAM SQUARE 2

Spotless Lens

2 3/4"
2 1/2"

SurroundLite
SurroundLite Asy.

Project _____

Type _____

Notes _____

_____

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1100 lm/ft	9.3 W/ft	118 lm/W	SLA
1100 lm/ft	8.2 W/ft	135 lm/W	SL

Please consult factory for custom lumen output and wattage.

Axitune Tunable White | PoE | bios ILLUMINATED | c UL us Listed | SL SurroundLite™ | CONTROL SENSORS

Ordering Guide

B2SQILED						
PRODUCT ID		**NOM. LUMENS/FT**		**CRI**	**COLOR TEMP. (choose one)**	**SHIELDING**
B2SQILED	Pendant Indirect LED	**300** 300 lm/ft - **Minimum**		**80** 80 CRI	**27** 2700 K **TW2750** 2700-5000 K - Tunable White	**SL** SurroundLite
		1100 1100 lm/ft - **Maximum**		**90** 90 CRI*	**30** 3000 K **TW2765** 2700-6500 K - Tunable White	**SLA** SurroundLite asymmetric
					35 3500 K **BTW3527** 3500-2700 K - Tunable BIOS	
					40 4000 K **BTW4027** 4000-2700 K - Tunable BIOS	
					B30 3000 K - BIOS*	
					B35 3500 K - BIOS*	
					B40 4000 K - BIOS*	
		Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. Consult factory for max output with BIOS.		* Not available with BIOS.	Consult Axitune technical sheet for more information of color technology. *Consult BIOS guide for more information on BIOS technology	

LENGTH	**FINISH**	**VOLTAGE**	**DRIVER**	**CIRCUITS**
2 2'	**AP** aluminum paint	**120** 120 V	**DP** dimming (0-10V) 1%	**1** 1 circuit
3 3'	**W** white	**277** 277 V	**LT(#)** Lutron*	**2** 2 circuits
4 4'	**BLK** black	**347** 347 V	**BI** bi-level dimming	**+E(#)** emergency circuit*
5 5'	**C** custom	**UNV** universal	**O(#)** other**	**+NL(#)** night light circuit*
6 6'		**DC** low voltage*	**DPB(STC)** dimming (0-10V) 1% with BIOS*	**+GTD(#)** generator transfer device*
8 8'			**DPB(DYN)** Bio-dimming™ 100%-81% with BIOS*	
12 12'			**TW(#)** tunable white drivers*	
S(L) system run *			**POE(#)** POE drivers*	
*SurroundLite available in 1' increments only		* Only available with POE drivers.	*See page 2 to specify system **Please consult factory; see page 2	*Specify quantity

MOUNTING/SUSPENSION	**BATTERY (OPT.)**	**IC CONTROLS (OPT.)**	**CUSTOM (OPTIONAL)**
CA(#) drywall+cable length (36" std.)	**B(#)** battery pack (integral)	**DS(#)** daylight sensor	**C** custom
CT9(#) TB/TG 9/16+cable length (36" std.)		**OS(#)** occupancy sensor	
CT15(#) TB/TG15/16+cable length (36" std.)		**DOS(#)** daylight & occupancy sensor	
CTS(#) screw slot+cable length (36" std.)		**EN(#)** Enlighted integral*	
SA(#) drywall+stem length >48" (18" std.)		**ENR(#)** Enlighted remote*	
CASL(#) drywall cable sloped ceiling		**WC(#)** wireless control dimming	
SASL(#) drywall stem sloped ceiling			
See Mounting kit guide for full specification code. White canopy standard	Requires 120V or 277V Minimum 4ft; please consult factory	*Please consult factory Specify quantity. Requires 8" blank See integrated controls guide for more details. Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.	Please specify

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

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March 15, 2024

FILE NAME : B2SQI.LED.SPEC

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● SPECIFICATIONS

CONSTRUCTION

Housing	Extruded aluminum (0.075'' nominal) Up to 70% recycled content
End Cap	Cast aluminum
Interior Brackets	Die formed sheet steel (20 gauge)
Hanger	adjustable slide mount
Suspension	Y shape aircraft cable or Ø 1/2" stem
Cable Grips	Quick connecting / release

● ELECTRICAL

Lutron driver	LDE1 - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex Xitanium SR - For wireless sensor
BIOS DPB drivers*	STC - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. DYN - BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™, which changes spectral qualities by removing the SkyBlue component when dimming from 100% to 81%, while light output remains relatively constant; bio-dimming reduces CCT to 2700K. Dimming from 80% to 1% will then reduce light output.
Tunable White TW drivers*	DALIDT6 - DALI Type 6 (Two DALI Addresses) DALIDT8 - DALI Type 8 (One DALI Address)
Power over Ethernet POE drivers* UL2108 certified for integral or remote driver	MOLEX IGOR SMARTENGINE O - Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV, DC.
Flex Whip	Shipped in a separate box for contractors to install

*Choose driver from available options.

ⓘ Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

● LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CRI BIOS	Minimum 80 color rendering index with R9>75 for all CCTs.
CCT Single Color	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
CCT BIOS	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™ BIOS Tunable White (BTW) Choice of 4000-2700K and 3500-2700K; does not use a bio-dimmer, it uses TW drivers, which allow independent control of CCT and intensity; e.g., BTW4027 provides combined SkyBlue + white light at 4000K, SkyBlue is removed at 2700K. Light output can be adjusted for each CCT. _Consult BIOS guide for more information on BIOS technology._
CCT Axitune Systems	_Consult Axitune technical sheet for more information on color technology._
LED life	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40°C (32-104F).

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● LED UPGRADE / REPLACEMENT

All LED light engines used are field replaceable and upgradable to ensure the lighting system will last for years. Future-proof design comes with easy access to LED light engines from above using quick connectors (included in luminaire) and a screwdriver.

● LIGHT GUIDE

High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire. In-plane mixing maximizes color uniformity while light emitting area is uniform and diffuse without 'head lighting' from the LED's.

● SYSTEM (S#)

BEAM2 SQUARE linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs. Lengths of 4', 8', 12' as well as custom lengths in 1' increments are available. Runs of BEAM2 SQUARE that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination of 4', 8' and/or 12' sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

● WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.
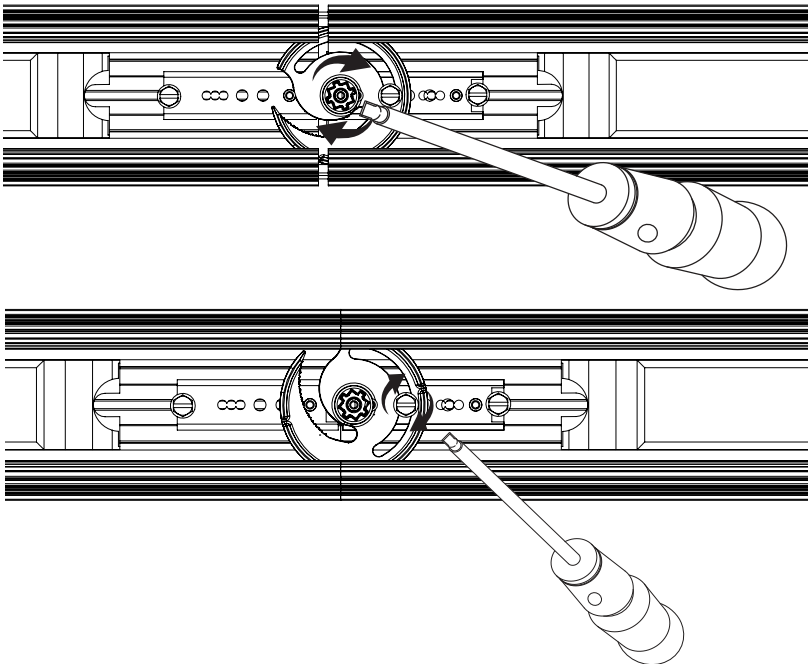
● InstaJoiner

BEAM2 SQUARE SurroundLite luminaires feature InstaJoiner, a unique, patent-pending joining system developed by Axis offering fast, single-screw tightening.

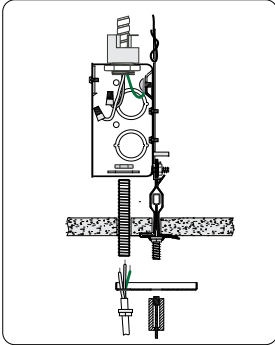**NOTE:** Mount each system segment individually.

Do not assemble system prior to mounting

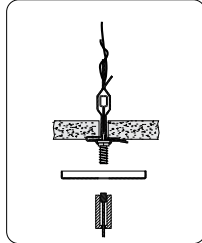ℹ️ Allow a minimum of 6" between end of long runs and wall.

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● *MOUNTING OPTIONS*

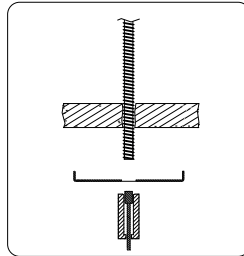**CT** **TILE CEILING - ON GRID**

Power feed

Non power feed

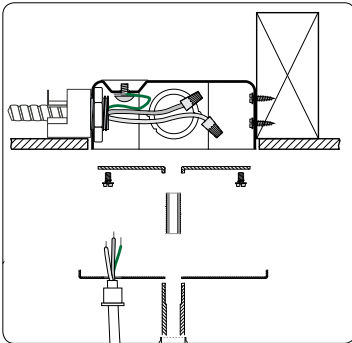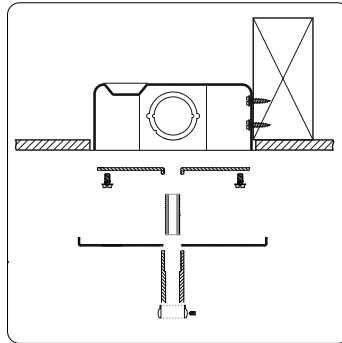**CA** **DRYWALL CEILING**

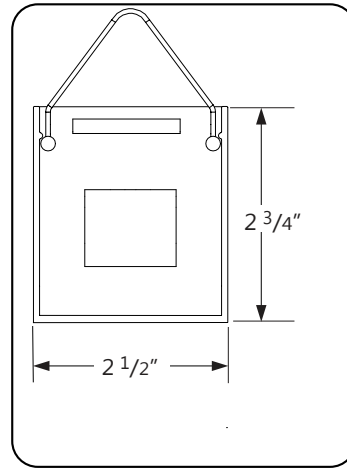Power feed

Non power feed

SA **STEM MOUNT IN DRYWALL CEILING**

Power feed

Non power feed

● *SECTION VIEWS*

SL/SLA **SurroundLite/SurroundLite Asymmetric**

$2 \, ^3/_4$"

$2 \, ^1/_2$"
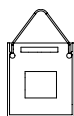
● *OTHER MOUNTING OPTIONS*

BEAM 2 SQUARE is also available with surface, wall and recessed wall mounted options.

ⓘ Specification sheets and installation sheets for all mountings for BEAM 2 SQUARE LED luminaires are available for download at www.axislighting.com
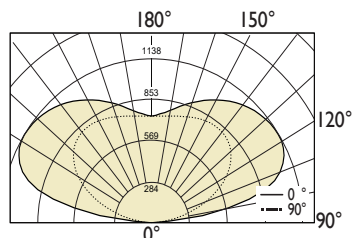
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● **PHOTOMETRIC DATA**

SL SurroundLite

Uplight
1100 lm/ft

PHOTOMETRIC CURVE

Lumen/ft: 1100 lm/ft
Total Lumens: 4400 lm (for 4ft)
Input Watts: 32.7 W
Efficacy: 135 lm/W
IES FILE: B2SQILED-1100-80-35-SL-4.IES

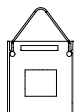TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
90	6	4	5	5	5
95	71	133	167	153	135
105	317	396	556	788	889
115	563	626	771	990	1106
125	731	783	898	1055	1137
135	814	861	948	1053	1101
145	827	867	935	1002	1031
155	801	831	880	922	937
165	767	783	807	829	837
175	745	749	753	757	759
180	741	741	741	741	741

ZONAL LUMENS

Zone	Lumens
90	
90-100	173
100-110	601
110-120	787
120-130	814
130-140	734
140-150	584
150-160	405
160-170	229
170-180	73
180	

SLA SurroundLite Asymmetric

Uplight
1100 lm/ft

PHOTOMETRIC CURVE

Lumen/ft: 1100 lm/ft
Total Lumens: 4400 lm (for 4ft)
Input Watts: 37.3 W
Efficacy: 118 lm/W
IES FILE: B2SQILED-1100-80-35-SLA-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles								
	0	22.5	45	67.5	90	112.5	135	157.5	180
90	12	10	6	6	7	9	11	22	2
95	94	125	127	121	121	128	135	123	48
105	357	338	360	369	373	366	355	337	292
115	600	526	514	529	539	526	512	526	550
125	751	645	602	601	607	600	601	645	724
135	812	693	636	620	620	619	635	694	803
145	811	696	638	614	609	614	638	698	814
155	782	686	634	608	602	609	635	691	789
165	750	687	647	625	620	627	651	696	757
175	733	713	699	692	692	697	709	725	736
180	747	747	747	747	747	747	747	747	747

ZONAL LUMENS

Zone	Lumens
90	
90-100	136
100-110	574
110-120	829
120-130	849
130-140	741
140-150	578
150-160	397
160-170	226
170-180	72
180	

FILE NAME : B2SQI.LED.SPEC