

**Project** \_\_\_\_\_

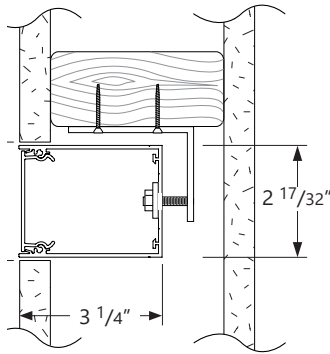
**Type** \_\_\_\_\_

**Notes** \_\_\_\_\_

### PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1000 lm/ft	8.5 W/ft	118 lm/W	SO
1000 lm/ft	9.5 W/ft	106 lm/W	UB

\* Based on a 4 foot luminaire using one driver  
Please consult factory for custom lumen output and wattage.



### Ordering Guide

B2SQRVLED													
PRODUCT ID		NOM. LUMENS/FT		CRI		COLOR TEMP. (choose one)		SHIELDING	LENGTH (FT)				
B2SQRVLED	Recessed	300	300 lm/ft - min	80	80 CRI	27	2700 K	TW2750	2700-5000 K - Tunable White	SO	spotless lens	2	2'
	Vertical LED	1000	1000 lm/ft - max	90	90 CRI*	30	3000 K	TW2765	2700-6500 K - Tunable White	UB	ultra blend lens*	3	3'
						35	3500 K	BTW3527	3500-2700 K - Tunable BIOS			4	4'
						40	4000 K	BTW4027	4000-2700 K - Tunable BIOS			5	5'
						B30	3000 K - BIOS*		6			6'	
						B35	3500 K - BIOS*		8			8'	
						B40	4000 K - BIOS*		12			12'	
													S(L)
		Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. Consult factory for max output with BIOS. * 1000lm/ft with louver		* Not available with BIOS.		<a href="#">Consult Axitune technical sheet for more information of color technology.</a> <a href="#">*Consult BIOS guide for more information on BIOS technology</a>		*Default lens for Tunable white and BIOS. Consult factory for other lens.					

FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTING	BATTERY (OPTIONAL)
W white	120 120 V	DP dimming (0-10V) 1%	1 1 circuit	DF drywall flange	B(##) battery pack (integral)
BLK black	277 277 V	LT(##) Lutron*	2 2 circuits	DS drywall spackle flange	
C custom	347 347 V	BI bi-level dimming	+E(##) emergency circuit*	D drywall flangeless	
	UNV universal	O(##) other**	+NL(##) night light circuit*		
	DC low voltage*	DPB(STC) dimming (0-10V) 1% with BIOS*	+GTD(##) generator transfer device*		
		DPB(DYN) Bio-dimming™ 100%-81% with BIOS*			
		TW(##) tunable white drivers*			
		POE(##) POE drivers*			
* Only available with POE drivers.		*See page 2 to specify system. **Please consult factory, see page 2	*Specify quantity	Not available with 347V Please consult factory	

OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
EF end feed	C custom
FW flex whip (6' std)*	
* Other lengths available; please consult factory. Please specify	

## ● CONSTRUCTION

<b>Housing</b>	Extruded aluminum (0.075" nominal) up to 70% recycled content
<b>T-Bar Bracket</b>	Die formed sheet steel (16 gauge)
<b>Screw Slot T-Bar Bracket</b>	Die formed sheet steel (16 gauge)
<b>Slip-Through Bracket</b>	Die formed sheet steel (18 gauge)
<b>Spackle Flange</b>	Die formed perforated sheet steel (20 gauge)
<b>Flange</b>	Extruded aluminum (0.075" nominal) visible flange width: 9/16"
<b>Interior Brackets</b>	Die formed sheet steel (18 gauge)
<b>Reflectors</b>	White powder coated sheet steel (22 gauge)
<b>Blank</b>	Extruded aluminum (0.075" nominal)
<b>Lens</b>	Spotless frosted acrylic lens

## ● ELECTRICAL

<b>Lutron driver</b>	LDE1 - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
<b>Other drivers**</b>	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex Xitanium SR - For wireless sensor
<b>BIOS DPB drivers*</b>	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.
<b>Tunable White TW drivers*</b>	DALIDT6 - DALI Type 6 (Two DALI Addresses) DALIDT8 - DALI Type 8 (One DALI Address)
<b>Power over Ethernet POE drivers*</b>	MOLEX IGOR UL2108 certified for integral or remote driver SMARTENGINE
<b>Emergency</b>	O - Other (Consult factory) Integral emergency battery pack or emergency circuit optional.
<b>Input Voltage</b>	120V, 277V, 347V, UNV, DC.
<b>Flex Whip</b>	Shipped in a separate box for contractors to install

\*Choose driver from available options.

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

## ● LED SYSTEM

<b>CRI</b>	Minimum 80 or 90 color rendering index.
<b>CRI BIOS</b>	Minimum 80 color rendering index with R9>75 for all CCTs.
<b>CCT Single Color</b>	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.
<b>CCT BIOS</b>	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. <a href="#">Consult BIOS guide for more information on BIOS technology.</a>
<b>CCT Axitune Systems</b>	<a href="#">Consult Axitune technical sheet for more information on color technology.</a>
<b>LED life</b>	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal Management</b>	Aluminum housing acting as the heat sink to maximize life.
<b>Environment</b>	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40°C (32-104°F).

## ● 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 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](http://www.axislighting.com).

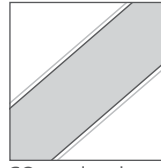
## ● WEIGHT

<b>Recessed Vertical LED 4 ft</b>	10.5 lbs / 4.8 kg
<b>Recessed Vertical LED 8 ft</b>	21.0 lbs / 9.6 kg
<b>Recessed Vertical LED 12 ft</b>	31.5 lbs / 14.4 kg

## ● FINISHES

Powder coated and custom finishes are also available.

## ● OPTICS



SO spotless lens  
UB ultra blend lens


### SPOTLESS LENS

Frosted acrylic snap-in lens with micro lens

### ULTRA BLEND LENS

Frosted acrylic snap-in lens with micro lens

## ● APPROVALS

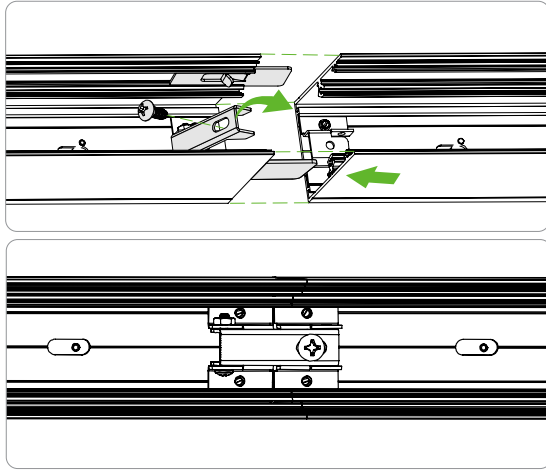
Certified to UL and CSA standards   
Meets NYC requirements  
Suitable for damp locations  
IC Rated (Insulated ceiling)

## ● 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](http://axislighting.com).

### JOINERS

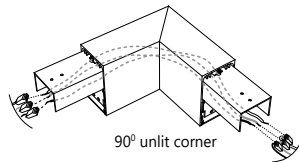
BEAM 2 SQUARE has steel joiners with wedge alignment for easy installation.



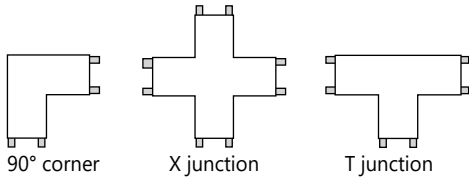
JOINER SYSTEM

### CORNERS

**Unlit Corners** - BEAM 2 LED features a multitude of layout patterns with the use of a number of corners, 90° corner, T or X junctions.



90° unlit corner

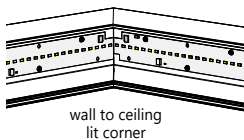


90° corner

X junction

T junction

**Lit Corners** - Axis also offers lit 90° corners including ceiling to ceiling, wall to ceiling and ceiling to wall.



wall to ceiling  
lit corner

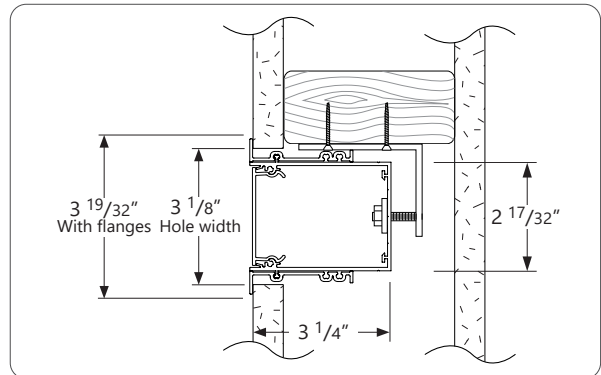
**i** For custom corner angles, please consult factory. Specifications sheets for all corners are available at: [www.axislighting.com](http://www.axislighting.com)

### OTHER MOUNTING OPTIONS

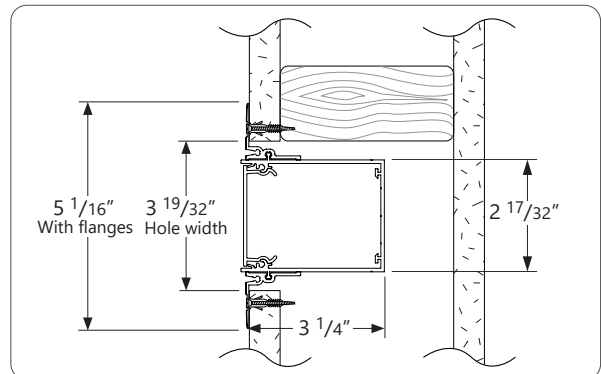
BEAM 2 LED is also available with pendant, recessed, surface, wall vertical and wall mounted options.

**i** Specification sheets and installation sheets for all mountings for BEAM 2 LED luminaires are available for download at [www.axislighting.com](http://www.axislighting.com)

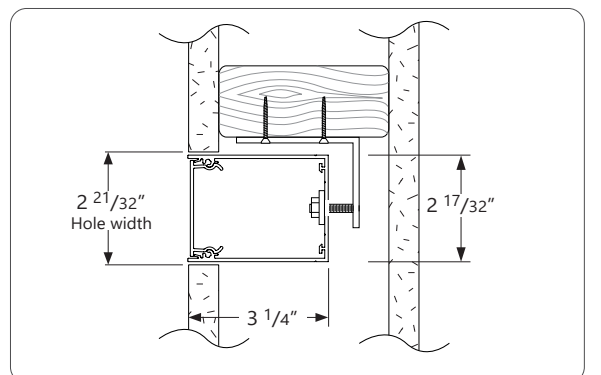
### VERTICAL RECESSED MOUNTING OPTIONS



DF DRYWALL FLANGED



DS DRYWALL SPACKLE FLANGE



D DRYWALL FLANGELESS

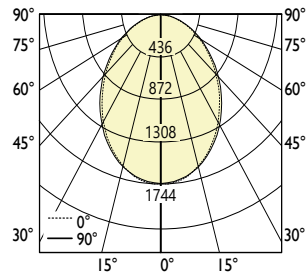
### ● PHOTOMETRIC DATA

**SO - Spotless lens**

**1000 lm/ft**



#### PHOTOMETRIC CURVE



**Lumen/ft: 1000 lm/ft**  
**Total Lumens: 4000 lm (for 4ft)**  
**Input Watts: 34 W**  
**Efficacy: 118 lm/W**  
 IES FILE: B2SQRVLED-1000-80-35-SO-4.IES

TESTED ACCORDING TO IES LM-79-2008

80 CRI shown. To calculate watts and efficacy at 90 CRI, apply a multiplier of 0.8.

#### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1742	1742	1742	1742	1742
5	1731	1723	1720	1717	1713
15	1637	1620	1598	1581	1577
25	1462	1433	1397	1361	1347
35	1224	1190	1141	1096	1079
45	956	926	876	828	810
55	690	666	623	581	569
65	442	424	395	367	358
75	227	216	203	187	183
85	63	57	51	44	44
90	3	3	3	3	3

#### ZONAL LUMENS

Zone	Lumens
0	
0-10	164
10-20	456
20-30	656
30-40	734
40-50	699
50-60	580
60-70	412
70-80	230
80-90	69
90	

#### LUMINANCE DATA (cd/m²)

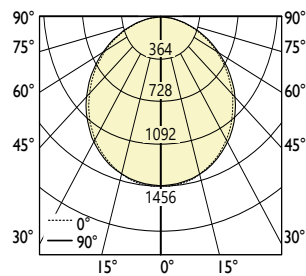
Vertical Angle	Horizontal Angles		
	0	45	90
45	18485	16928	15660
55	16438	14844	13550
65	14298	12780	11567
75	11985	10694	9680
85	9901	8012	6837

**UB - Ultra Blend lens**

**1000 lm/ft**



#### PHOTOMETRIC CURVE



**Lumen/ft: 1000 lm/ft**  
**Total Lumens: 4000 lm (for 4ft)**  
**Input Watts: 37.8 W**  
**Efficacy: 106 lm/W**  
 IES FILE: B2SQRVLED-1000-80-35-UB-4.IES

TESTED ACCORDING TO IES LM-79-2008

80 CRI shown. To calculate watts and efficacy at 90 CRI, apply a multiplier of 0.8.

#### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1456	1456	1456	1456	1456
5	1449	1448	1448	1447	1447
15	1390	1386	1382	1384	1387
25	1274	1269	1279	1290	1290
35	1114	1113	1129	1128	1128
45	921	932	937	926	922
55	708	720	713	701	697
65	480	491	480	471	470
75	262	267	263	260	260
85	80	78	75	71	71
90	5	3	3	3	3

#### ZONAL LUMENS

Zone	Lumens
0	
0-10	137
10-20	391
20-30	587
30-40	698
40-50	712
50-60	632
60-70	475
70-80	280
80-90	86
90	

#### LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	16697	16972	16713
55	15808	15937	15574
65	14563	14560	14240
75	12982	13027	12878
85	11800	10987	10492

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)