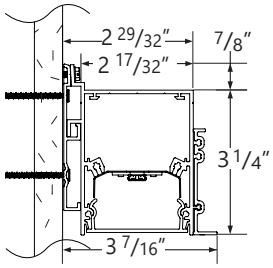
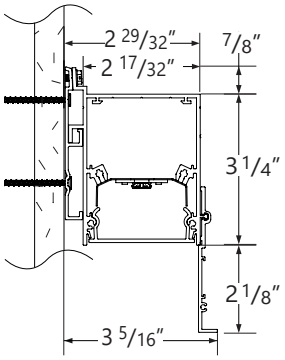
BEAM SQUARE 2 — LINEAR PERIMETER

Flush



Regressed 2"



Project _____

Type _____

Notes _____

CCEA APPROVED · Axitune Tunable White · PoE · bios ILLUMINATED · IC cULus Listed Type I.C. · c UL us Listed · LED BOARD & DRIVER 5 YEAR LUMINAIRE WARRANTY

Ordering Guide

B2SQPRLED

PRODUCT ID		NOM. LUMENS/FT		CRI		COLOR TEMP. (choose one)				SHIELDING	
B2SQPRLED	Linear Perimeter Recessed LED	**300**	300 lm/ft - **min**	**80**	80 CRI	**27**	2700 K	**BTW3527**	3500-2700 K - Tunable BIOS	**SO**	spotless lens
		750	750 lm/ft - **max for GZ***	**90**	90 CRI*	**30**	3000 K	**BTW4065**	4000-6500 K - Tunable BIOS	**UB**	Ultra blend lens*
		1000	1000 lm/ft - **max**			**35**	3500 K	**TW2750**	2700-5000 K - Tunable White	**GZ**	graze lens
						40	4000 K	**TW2765**	2700-6500 K - Tunable White		
						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. * 750lm/ft max for graze		* Not available with BIOS.		Consult Axitune technical sheet for more information on color technology. *Consult BIOS guide for more information on BIOS technology BIOS (B30, B35, B40, BTW3527, BTW4065) is not available with Telescopic.				* Default lens for Tunable white and BIOS. Consult factory for other lens.	

SHIELDING POSITION		TOTAL LENGTH		FINISH		VOLTAGE		DRIVER		CIRCUITS		MOUNTING	
FL	flush	**(L)**	total length	**W**	white	**120**	120 V	**DP**	dimming (0-10V) 1%	**1**	1 circuit	**TB9**	t-bar 9/16"
RG2	2" regressed			**C**	custom	**277**	277 V	**LT(#)**	Lutron*	**2**	2 circuits	**TB15**	t-bar 15/16"
						347	347 V	**BI**	bi-level dimming	**+E(#)**	emergency circuit*	**ST**	screw slot t-bar
						UNV	universal	**O(#)**	other **	**+NL(#)**	night light circuit*	**TG9**	tegular 9/16"
						DC	low voltage*	**DPB(STC)**	dimming (0-10V) 1% with BIOS*	**+GTD(#)**	generator transfer device *	**TG15**	tegular 15/16"
								DPB(DYN)	Biodimming™ 100%-50% with BIOS*			**DF**	drywall flange
								TW(#)	tunable white drivers*			**DS**	drywall spackle flange
								POE(#)	POE drivers*				
		Min total length 2'				* Only available with POE drivers.		* See page 2 to specify system ** Please consult factory; see page 2		* Specify quantity			

END CAP		TYPE (OPTIONAL)		BATTERY (OPTIONAL)		OTHER (OPTIONAL)		CUSTOM (OPT.)	
ECFL	end cap flush with lens	**TS(#)**	telescopic sections	**B(#)**	battery pack 4' sections	**EF**	end feed	**C**	custom
ECRG2	end cap for 2" regressed*					**FW**	flex whip (6' std) *		
						CP	Chicago plenum		
* Only available with RG2 regressed position. See page 3 for additional information.		TS section requires min length of 4'. Available on patterns. Recomended for longer runs or if exact perimeter length is not available. See page 2 for more details. Not available with BIOS - B30, B35, B40, BTW3527, BTW4065.		Not available with 347V Please consult factory Not available with color tuning		* Other lengths available; please consult factory.		Please specify	

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SPECIFICATIONS

CONSTRUCTION

Housing	Extruded aluminum (0.075'' nominal) Up to 70% recycled content
Interior Brackets	Die formed sheet steel (18 gauge)
Reflectors	White powder coated sheet steel (22 gauge)
Blank	Extruded aluminum (0.075'' nominal)
Lens	Spotless frosted acrylic lens
T-Bar Bracket	Die formed sheet steel (16 gauge)
Screw Slot T-Bar Bracket	Die formed sheet steel (16 gauge)
Spackle Flange	Extruded aluminum (0.070")
All Flanges	Extruded aluminum (0.070'' nominal)

ELECTRICAL

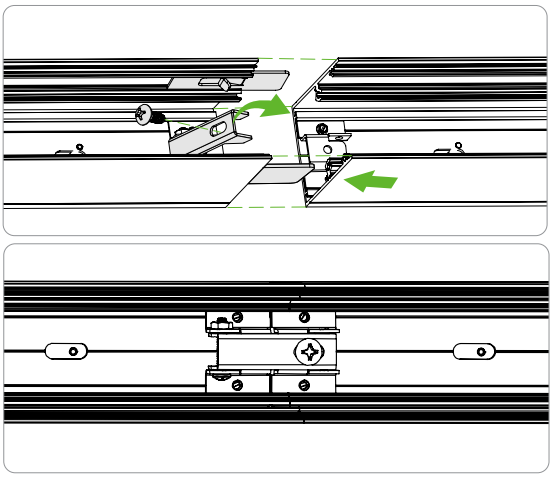
Lutron driver	**LDE1 -** Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	**DALI** - Digital Addressable Lighting Interface **DMX** - Digital Multiplex **Xitanium SR** - For wireless sensor
BIOS DPB drivers*	**STC** - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. **DYN**- BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™ enabled 100% to 50%, light output dimming from 49% to 1%.
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.

JOINERS

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



JOINER SYSTEM

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™ 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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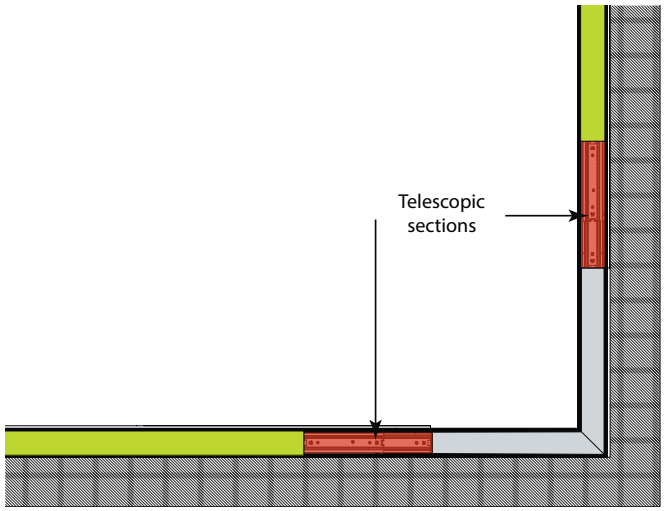
APPROVALS

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

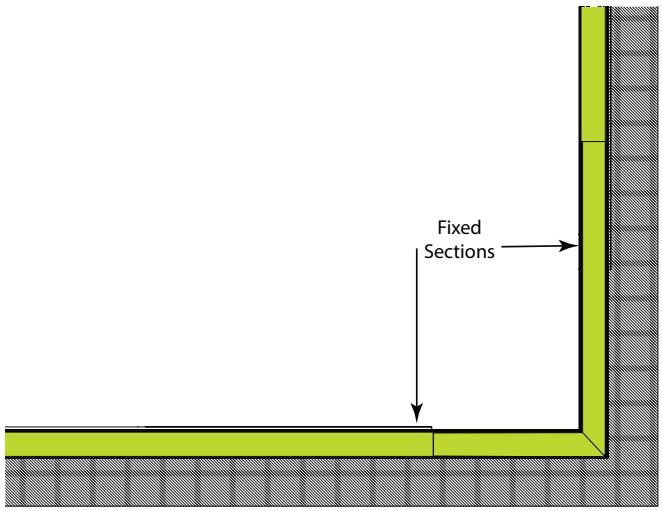
WEIGHT

Perimeter LED 4 ft	14.5 lbs / 6.6 kg
Perimeter LED 8 ft	29.0 lbs / 13.2 kg
Perimeter LED 12 ft	43.5 lbs / 19.7 kg

SECTION QUANTITY



TS **TELESCOPIC SECTIONS**



FS **FIXED SECTIONS**

WARRANTY

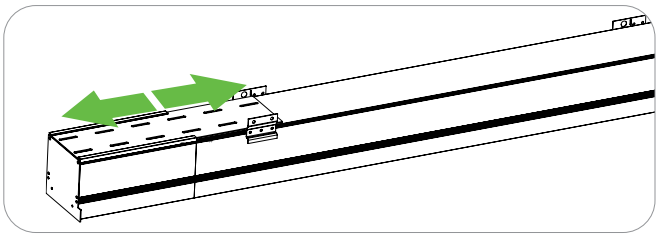
Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

7" TELESCOPIC ADJUSTMENT

Beam 2 Square LED Perimeter features a patented telescopic sliding LED board design that allows runs to be field cut to facilitate installation and specification

NOTE: Miter saw with aluminum cutting blade required on site for telescopic adjustments. If a 2nd telescopic section is required, minimum length is 8'.

EXAMPLE: Telescopic adjustment 7" (+4"/-3"). If a 10' 6" (126") fixture is specified, adjustable lengths with (1) TS section are between 123"-130".

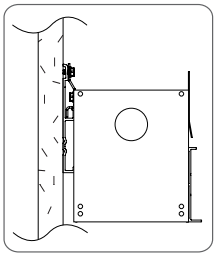


END CAP

FLUSH END CAP

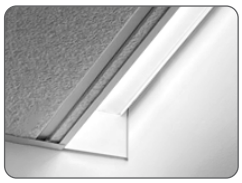


ECFL **END CAP FLUSH**

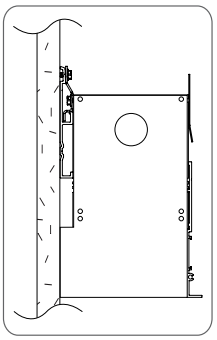


Side view

REGRESSED END CAP



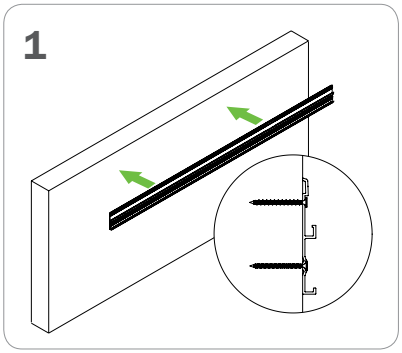
ECR2 **END CAP 2" REGRESSED**



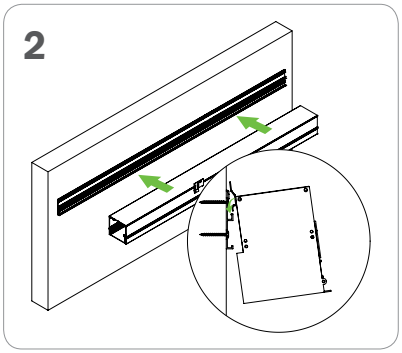
Side view

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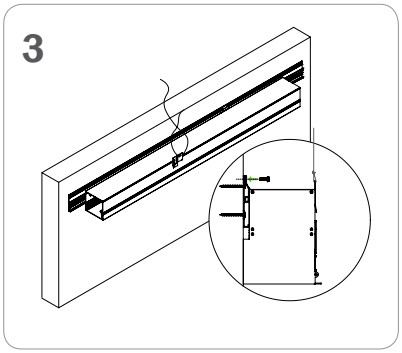
INSTALLATION GUIDE



Install wall track level and secure to structure at small grooves in extrusion.

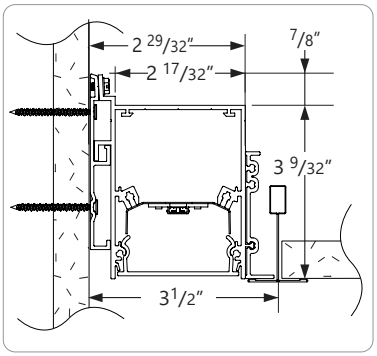


Hook beam Perimeter luminaire onto wall track.

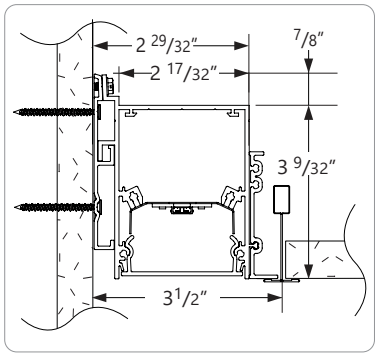


Secure to wall track, secure to structure.

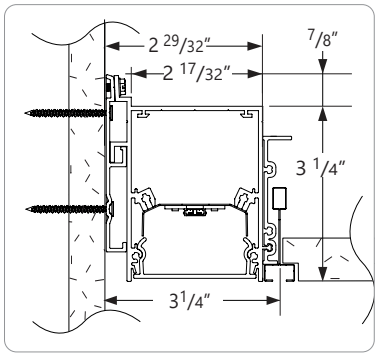
TB CEILING MOUNTING OPTIONS



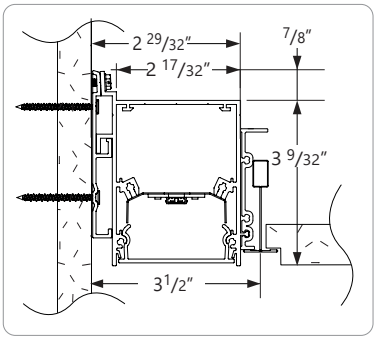
TB15 15/16" T-BAR



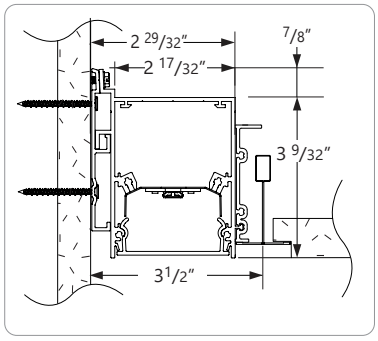
TB9 9/16" T-BAR



ST SCREW SLOT T-BAR

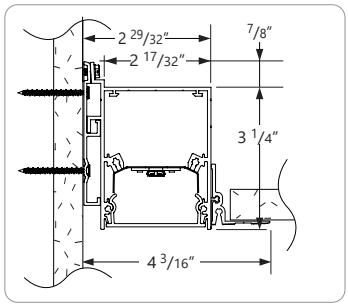


TG9 9/16" T-TEGULAR

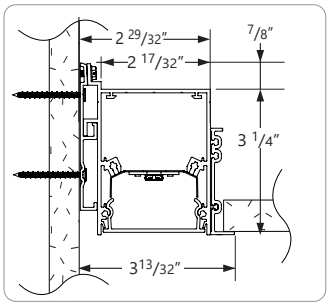


TG15 15/16" T-TEGULAR

DRYWALL CEILING MOUNTING OPTIONS



DS SPACKLE FLANGES



DF VISIBLE FLANGES WALL MOUNTING

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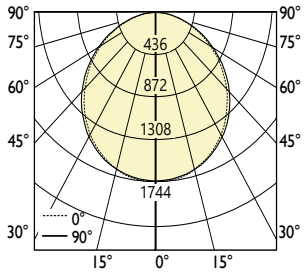
PHOTOMETRIC DATA

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: B2SQPRLED-1000-80-35-SO-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	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)

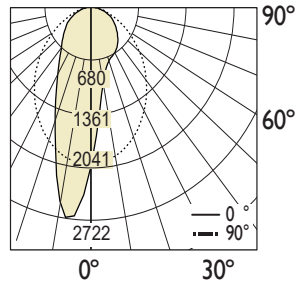
	Horizontal Angles		
Vertical Angle	0	45	90
45	18485	16928	15660
55	16438	14844	13550
65	14298	12780	11567
75	11985	10694	9680
85	9901	8012	6837

GZ - Graze lens

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 750 lm/ft
Total Lumens: 3212 lm (for 4ft)
Input Watts: 30.3 W
Efficacy: 106 lm/W
IES FILE: B2SQPRLED-750-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	2031	2031	2031	2031	2031
5	1991	1684	1471	1348	1323
15	1861	1159	893	809	795
25	1634	850	705	694	700
35	1349	668	620	632	639
45	1038	535	520	524	532
55	715	406	395	411	429
65	410	267	267	294	314
75	176	135	140	161	173
85	31	27	29	32	31
90	2	2	2	1	1

ZONAL LUMENS

Zone	Lumens
0	
0-10	188
10-20	450
20-30	550
30-40	562
40-50	519
50-60	432
60-70	308
70-80	164
80-90	39
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	20205	10119	10356
55	17175	9493	10294
65	13348	8695	10246
75	9356	7446	9220
85	4845	4659	4847

All IES files are available for download at: www.axislighting.com

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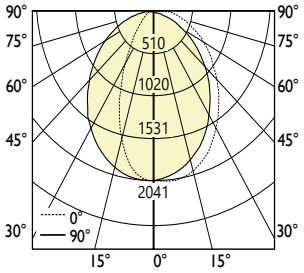
PHOTOMETRIC DATA

SO-RG2 - Spotless 2" Reg. lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 38.2 W
Efficacy: 105 lm/W
IES FILE: B2SQPRLED-1000-80-35-SO-RG2-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	2015	2015	2015	2015	2015
5	1999	2002	2012	2025	2029
15	1883	1916	1971	1997	2007
25	1670	1744	1803	1817	1840
35	1380	1498	1549	1547	1563
45	1073	1215	1257	1260	1271
55	767	923	972	985	992
65	479	646	707	736	751
75	239	392	468	514	535
85	51	180	272	323	349
90	3	101	196	256	277

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	188
10-20	507
20-30	682
30-40	706
40-50	631
50-60	511
60-70	381
70-80	253
80-90	142
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	22195	26019	26304
55	19558	24787	25300
65	16575	24482	26001
75	13503	26478	30266
85	8555	45730	58545

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