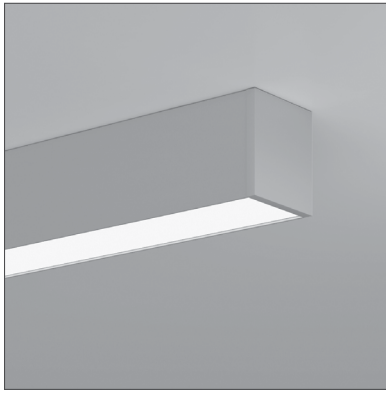
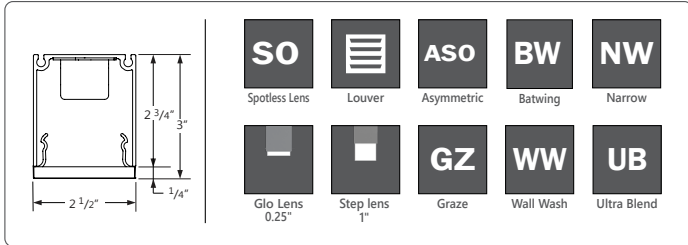




Spotless Lens



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
750 lm/ft	7.6 W/ft	106 lm/W	GZ
750 lm/ft	7.5 W/ft	107 lm/W	NW
750 lm/ft	7.6 W/ft	107 lm/W	ASO
1000 lm/ft	10 W/ft	100 lm/W	BW
1000 lm/ft	7.9 W/ft	126 lm/W	1M
1000 lm/ft	9.4 W/ft	98 lm/W	WFBL
750 lm/ft	7.6 W/ft	107 lm/W	WW
1000 lm/ft	8.4 W/ft	119 lm/W	0.25G
1000 lm/ft	9.5 W/ft	106 lm/W	UB

Please consult factory for custom lumen output and wattage.



Ordering Guide

B2SQSLED					
PRODUCT ID	NOM. LUMENS/FT	CRI	COLOR TEMP. (choose one)	SHIELDING	
B2SQSLED Surface LED	300 300 lm/ft - min 750 750 lm/ft - max for GZ, NW, WW, ASO* 1000 1000 lm/ft - max	80 80 CRI 90 90 CRI*	27 2700 K 30 3000 K 35 3500 K 40 4000 K B30 3000 K - BIOS* B35 3500 K - BIOS* B40 4000 K - BIOS*	TW2750 2700-5000 K - Tunable White TW2765 2700-6500 K - Tunable White BTW3527 3500-2700 K - Tunable BIOS BTW4027 4000-2700 K - Tunable BIOS	SO spotless lens BFBL black flat blade louver WFBL white flat blade louver GFBL grey flat blade louver 0.25G 0.25" Glo lens UB ultra blend lens 1M StepLens, lum. end cap ASO asymmetric, flush only BW batwing, flush only NW narrow, flush only GZ graze, flush only WW wallwash, flush only
Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, NW, WW and ASO. 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	MR (OPTIONAL)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2' 3 3' 4 4' 5 5' 6 6' 8 8' 12 12' S(L) system run	DMLED(#) downlight module LED Add 6" per lamp. Specify quantity. Separate circuits included. Requires 120V or 277. Available in luminaires with Axitune and BIOS but downlight modules will not be tunable white or BIOS LEDs	AP aluminum paint W white BLK black C custom	120 120 V 277 277 V 347 347 V UNV universal DC low voltage*	DP dimming (0-10V) 1% LT(#) Lutron* BI bi-level dimming O(#) other** DPB(STC) dimming (0-10V) 1% with BIOS* DPB(DYN) Bio-dimming™ 100%-81% with BIOS* TW(#) tunable white drivers* POE(#) POE drivers*	1 1 circuit 2 2 circuits +E(#) emergency circuit* +NL(#) night light circuit* +GTD(#) generator transfer device* +M MR
			* 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 (OPT.)
SB9 surface TB/TG 9/16 SB15 surface TB/TG 15/16 SBS surface screw slot t-bar S surface drywall ceiling SC surface solid ceiling	B(#) battery pack (integral) Minimum 4ft; please consult factory Not available with 347V.	DS(#) daylight sensor OS(#) occupancy sensor DOS(#) daylight & occupancy sensor EN(#) Enlighted integral* ENR(#) Enlighted remote* WC(#) wireless control dimming	C custom Please specify
		*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.	

● 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)
Reflectors	White powder coated sheet steel (22 gauge)
Louvers	Thermoplastic, Polycarbonate
Lenses	Extruded acrylic (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™, 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*	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.

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

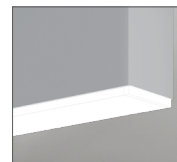
● OPTICS



SO Spotless lens
UB Ultra Blend lens



GFBL Grey Flat Blade Louver



0.25G Glo lens

ULTRA BLEND LENS

Frosted acrylic snap-in micro lens suitable for Tunable White and BIOS applications.

SPOTLESS LENS

Frosted acrylic snap-in micro lens

FLAT BLADE LOUVERS

Thermoplastic, Polycarbonate.

GLO LENS

0.25" frosted acrylic drop lens. Patented design.

● 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 (32-104°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.

● 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.

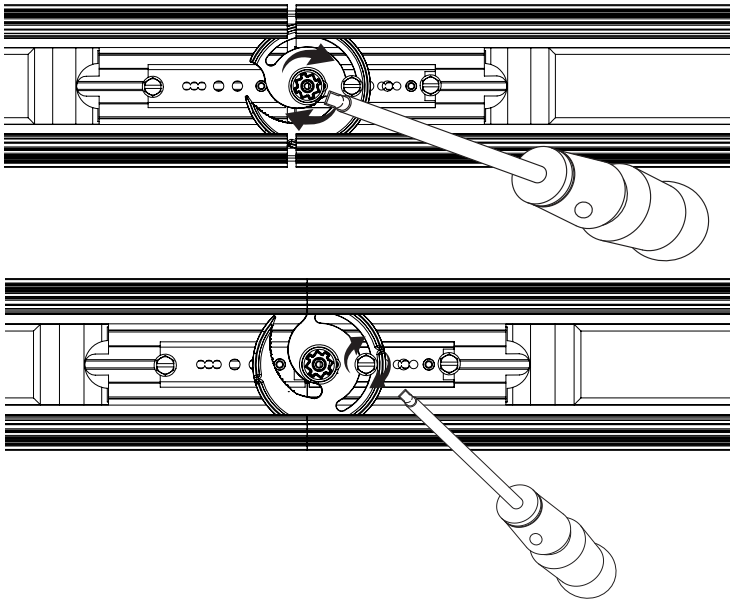
● InstaJoiner

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

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



DMLED MODULE

Blank LED Module Extruded aluminum (0.075" nominal) 2" diameter

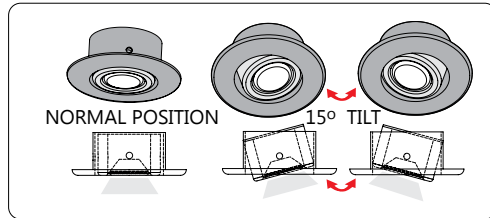
Quantity For every 4' section, there may be up to a maximum of 4 x DMLED module.

Spacing Each DMLED module is placed centered on a blank section 6" in length.

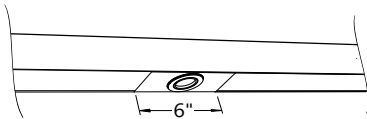
For a series of modules within a given section length, they will be spaced evenly on a longer blank section.

Custom spacing may be available on special request.

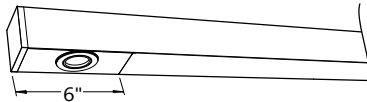
Tilt 15° each side.



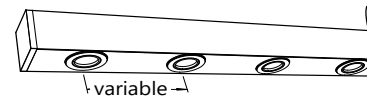
Between sections



At luminaire ends



Several in a long blank section



Beam Angle 30 nominal degrees

Input Watts 3W

Nominal Lumens 126 lumens

Efficacy 42 lumens per watt

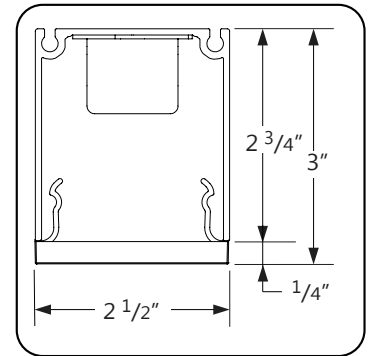
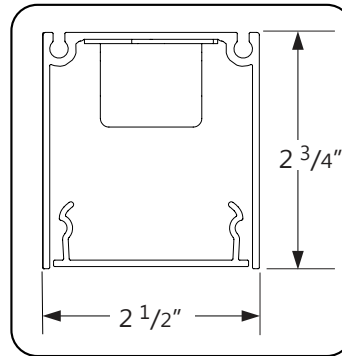
Color Rendering Index (CRI) 80

Life 25,000 hours at L₇₀

Correlated color temperature (CCT) 3000K

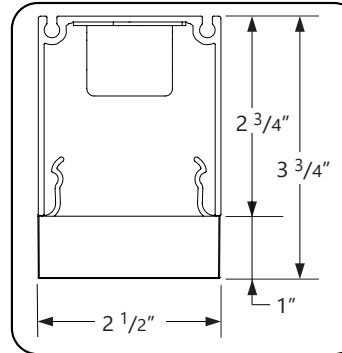
i More options are available upon request. Please consult factory.

SECTION VIEWS

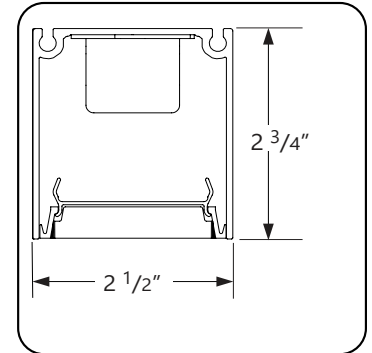


SO Spotless lens
ASO Asymm. lens
NW Narrow lens
GZ Graze lens
WW Wallwash lens
UB Ultra Blend lens
BW Batwing lens

0.25G 0.25" Glo lens

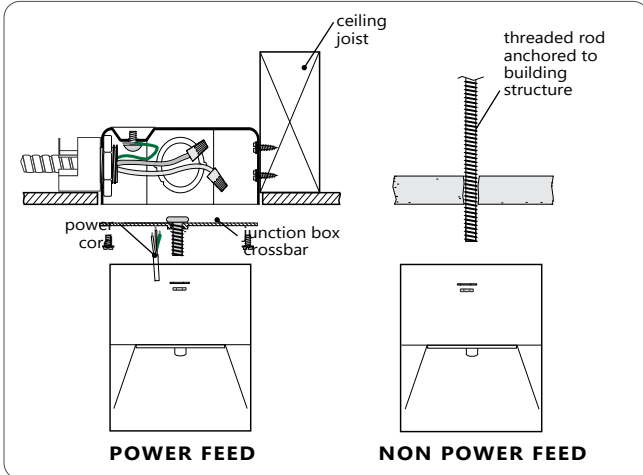


1M 1" Step Lens

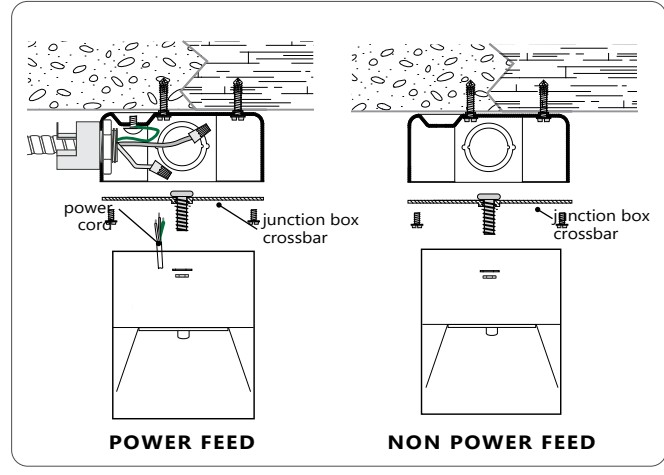


BFBL Black Flat Blade Louver
WFBL White Flat Blade Louver
GFBL Grey Flat Blade Louver

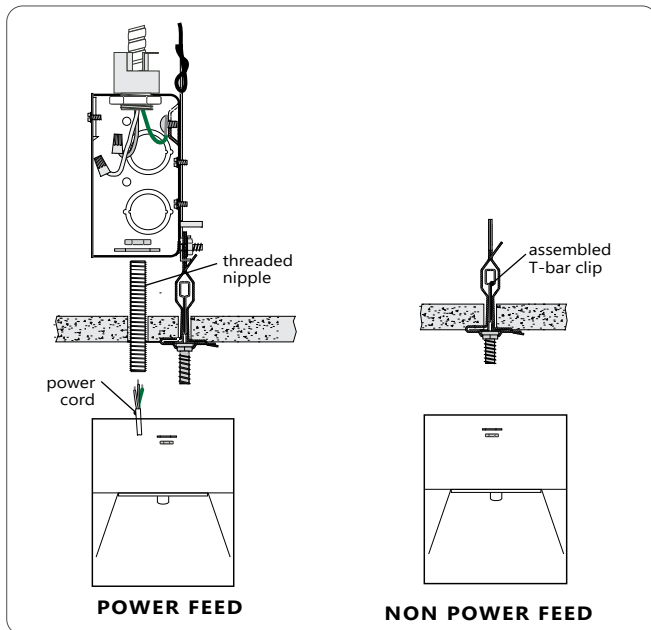
● MOUNTING DETAILS



S SURFACE MOUNT DRYWALL CEILING



SC SURFACE MOUNT SOLID CEILING



SB9 **SB15** **SBS** SURFACE MOUNT T-BAR CEILING

● OTHER MOUNTING OPTIONS

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

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

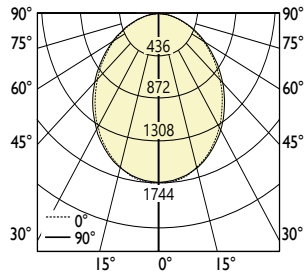
● PHOTOMETRIC DATA

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: B2SQSLED-1000-80-35-SO-4.IES

TESTED ACCORDING TO IES LM-79-2008

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)

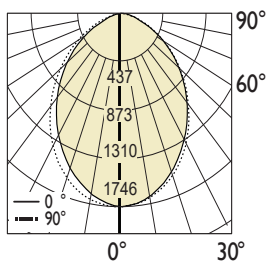
Vertical Angle	Horizontal Angles		
	0	45	90
45	18485	16928	15660
55	16438	14844	13550
65	14298	12780	11567
75	11985	10694	9680
85	9901	8012	6837

WFBL white flat blade louver

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 918 lm/ft
Total Lumens: 3670 lm (for 4ft)
Input Watts: 37.5 W
Efficacy: 98 lm/W
 IES FILE: B2SQSLED-1000-80-35-WFBL-4

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1745	1745	1745	1745	1745
5	1721	1719	1720	1721	1725
15	1585	1581	1587	1599	1613
25	1374	1367	1376	1393	1413
35	1122	1113	1113	1123	1151
45	851	838	829	838	864
55	577	561	552	559	583
65	309	300	302	306	321
75	127	120	118	121	124
85	38	35	30	25	24
90	2	2	2	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	163
10-20	452
20-30	645
30-40	716
40-50	668
50-60	524
60-70	322
70-80	142
80-90	39
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	16450	16018	16706
55	13748	13160	13881
65	9991	9782	10372
75	6686	6239	6538
85	5971	4733	3687

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

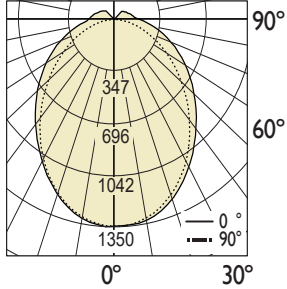
● PHOTOMETRIC DATA

1M 1" Step lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 31.7 W
Efficacy: 126 lm/W

IES FILE: B2SQSLED-1000-80-35-1M-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1388	1388	1388	1388	1388
5	1377	1374	1374	1371	1373
15	1297	1292	1281	1268	1265
25	1147	1140	1121	1099	1093
35	947	947	931	917	914
45	725	739	744	747	750
55	513	542	573	592	598
65	325	370	418	446	453
75	171	224	283	315	321
85	57	115	177	206	212
90	16	77	139	169	173
95	15	70	127	155	159
105	12	57	100	132	137
115	11	42	80	102	112
125	8	31	65	85	95

ZONAL LUMENS

Zone	Lumens
0	
0-10	131
10-20	365
20-30	525
30-40	595
40-50	585
50-60	518
60-70	413
70-80	292
80-90	181
90	
90-100	120
100-110	96
110-120	71
120-130	52
130-140	
140-150	
150-160	
160-170	
170-180	58
180	

LUMINANCE DATA (cd/m²)

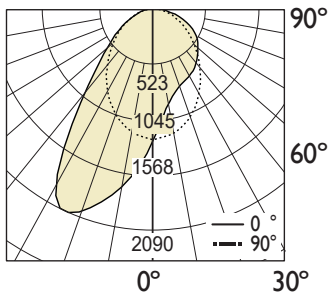
Vertical Angle	Horizontal Angles		
	0	45	90
45	12846	6088	5113
55	10826	4636	3936
65	8796	3450	2971
75	6739	2461	2161
85	4405	1671	1509

ww - Wallwash

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 750 lm/ft
Total Lumens: 3247 lm (for 4ft)
Input Watts: 30.3 W
Efficacy: 107 lm/W

IES FILE: B2SQSLED-750-80-35-WW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1243	1243	1243	1243	1243
5	1219	1137	1078	1043	1033
15	1135	937	852	822	815
25	977	771	732	734	738
35	780	635	642	670	684
45	585	510	534	572	596
55	410	382	402	467	508
65	259	249	269	347	386
75	131	127	142	194	214
85	27	27	33	40	38
90	2	3	3	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	119
10-20	356
20-30	572
30-40	651
40-50	578
50-60	455
60-70	313
70-80	164
80-90	39
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	11389	10400	11612
55	9845	9647	12205
65	8439	8765	12564
75	6987	7563	11380
85	4291	5165	5927

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

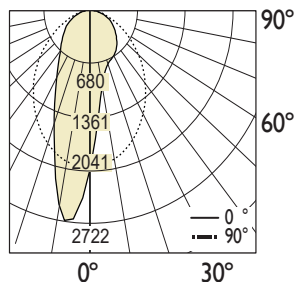
● PHOTOMETRIC DATA

GZ graze

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 750 lm/ft
Total Lumens: 3212 lm (for 4ft)
Input Watts: 30.3 W
Efficacy: 106 lm/W
 IES FILE: B2SQSLED-750-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	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)

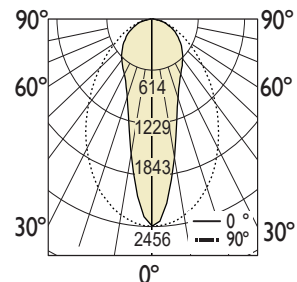
Vertical Angle	Horizontal Angles		
	0	45	90
45	20221	10126	10363
55	17188	9500	10302
65	13358	8701	10253
75	9363	7452	9227
85	4849	4662	4850

NW narrow

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 750 lm/ft
Total Lumens: 3225 lm (for 4ft)
Input Watts: 30.1 W
Efficacy: 107 lm/W
 IES FILE: B2SQSLED-750-80-35-NW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	2458	2458	2458	2458	2458
5	2440	2405	2313	2224	2197
15	2258	1979	1546	1303	1239
25	1925	1464	1019	868	838
35	1497	1066	753	686	678
45	1058	773	581	554	555
55	684	540	429	424	430
65	394	337	285	290	299
75	180	163	148	154	160
85	33	33	33	32	32
90	2	2	1	1	1

ZONAL LUMENS

Zone	Lumens
0	
0-10	207
10-20	453
20-30	538
30-40	556
40-50	519
50-60	433
60-70	310
70-80	167
80-90	41
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	20605	11314	10803
55	16414	10308	10324
65	12851	9298	9742
75	9563	7852	8515
85	5141	5207	4984

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

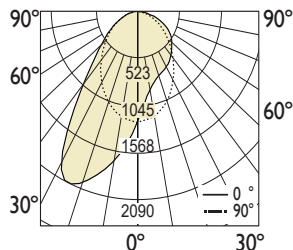
● PHOTOMETRIC DATA

ASO Asymmetric

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 750 lm/ft
Total Lumens: 3247 lm (for 4ft)
Input Watts: 30.3 W
Efficacy: 107 lm/W

IES FILE: B2SQSLED-750-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1243	1243	1243	1243	1243
5	1219	1137	1078	1043	1033
15	1135	937	852	822	815
25	977	771	732	734	738
35	780	635	642	670	684
45	585	510	534	572	596
55	410	382	402	467	508
65	259	249	269	347	386
75	131	127	142	194	214
85	27	27	33	40	38
90	2	3	3	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	119
10-20	356
20-30	572
30-40	651
40-50	578
50-60	455
60-70	313
70-80	164
80-90	39
90	

LUMINANCE DATA (cd/m²)

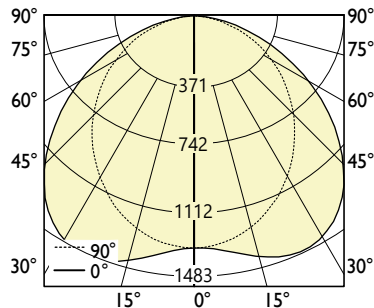
Vertical Angle	Horizontal Angles		
	0	45	90
45	11389	10400	11612
55	9845	9647	12205
65	8439	8765	12564
75	6987	7563	11380
85	4291	5165	5927

BW Batwing

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 40.1 W
Efficacy: 100 lm/W

IES FILE: B2SQSLED-1000-80-35-BW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1166	1166	1166	1166	1166
5	1158	1163	1174	1185	1190
15	1097	1131	1209	1291	1325
25	981	1052	1233	1404	1460
35	831	928	1179	1399	1467
45	669	773	1045	1207	1245
55	505	591	792	918	942
65	342	398	522	599	611
75	180	205	266	299	303
85	38	46	59	62	63
90	3	3	3	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	113
10-20	343
20-30	565
30-40	721
40-50	760
50-60	671
60-70	491
70-80	268
80-90	68
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	12934	20196	24063
55	12031	18869	22435
65	11071	16882	19744
75	9513	14052	16015
85	5950	9261	9810

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

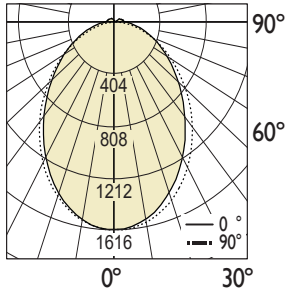
● PHOTOMETRIC DATA

0.25G 0.25" Step lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 33.7 W
Efficacy: 119 lm/W

IES FILE: B2SQSLED-1000-80-35-0.25G-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1614	1614	1614	1614	1614
5	1606	1603	1600	1597	1594
15	1517	1506	1494	1479	1475
25	1352	1333	1307	1279	1271
35	1126	1109	1075	1039	1026
45	877	864	832	799	788
55	631	624	606	582	574
65	405	408	405	396	394
75	210	223	237	243	245
85	63	83	107	122	128
90	8	30	56	74	80
95	8	26	47	63	68
105	7	19	37	55	60
115	7	14	29	41	48
125	8	13	25	34	40

ZONAL LUMENS

Zone	Lumens
0	
0-10	152
10-20	422
20-30	607
30-40	680
40-50	651
50-60	548
60-70	405
70-80	251
80-90	115
90	
90-100	50
100-110	41
110-120	30
120-130	23
130-140	
140-150	
150-160	
160-170	
170-180	26
180	

LUMINANCE DATA (cd/m²)

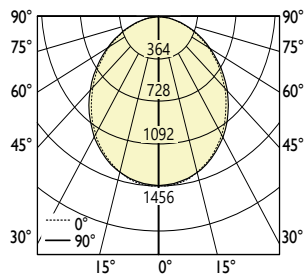
Vertical Angle	Horizontal Angles		
	0	45	90
45	16952	16086	15230
55	15036	14439	13678
65	13081	13087	12734
75	11075	12505	12937
85	9910	16784	20013

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: B2SQSLED-1000-80-35-UB-4.IES

TESTED ACCORDING TO IES LM-79-2008

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

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