

Project \_\_\_\_\_

Type \_\_\_\_\_

Notes \_\_\_\_\_

### PERFORMANCE PER LINEAR FOOT AT 4000K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
400 lm/ft	3.3 W/ft	122 lm/W
500 lm/ft	4.3 W/ft	117 lm/W
750 lm/ft	6.8 W/ft	109 lm/W
1000 lm/ft	9.5 W/ft	105 lm/W

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



### Ordering Guide

BBSLED				SO							
PRODUCT ID		NOM. LUMENS/FT		CRI		COLOR TEMP.		SHIELDING		LENGTH	
<b>BBSLED</b>	Surface LED	<b>400</b>	400 lm/ft - Minimum	<b>80</b>	80 CRI	<b>27</b>	2700 K	<b>SO</b>	spotless lens	<b>2</b>	2'
		<b>1000</b>	1000 lm/ft - Maximum	<b>90</b>	90 CRI	<b>30</b>	3000 K			<b>3</b>	3'
						<b>35</b>	3500 K			<b>4</b>	4'
						<b>40</b>	4000 K			<b>5</b>	5'
										<b>6</b>	6'
								<b>8</b>	8'		
								<b>12</b>	12'		
								<b>S#</b>	system run		

Outputs between listed min and max are available.  
Consult factory for outputs outside of the listed range.

MR (OPTIONAL)		FINISH		VOLTAGE		DRIVER		CIRCUITS	
<b>M16(#)</b>	MR16 halogen lamp - Line voltage (by other) <sup>(1)</sup>	<b>AP</b>	aluminum paint	<b>120</b>	120 V	<b>DP</b>	dimming (0-10V) 1%	<b>1</b>	1 circuit
<b>M16LED(#)</b>	MR16 LED lamp - Line voltage (by other) <sup>(1)</sup>	<b>W</b>	white	<b>277</b>	277 V	<b>LT</b>	Lutron <sup>(3)</sup>	<b>2</b>	2 circuits
<b>M16LEDB(#)</b>	MR16 LED lamp - Dimmable (provided) <sup>(2)</sup>	<b>BLK</b>	black	<b>347</b>	347 V	<b>BI</b>	bi-level dimming	<b>+E(#)</b>	emergency circuit <sup>(5)</sup>
		<b>C</b>	custom	<b>UNV</b>	universal	<b>O</b>	other <sup>(4)</sup>	<b>+NL(#)</b>	night light circuit <sup>(5)</sup>
								<b>+GTD(#)</b>	generator transfer device <sup>(5)</sup>
								<b>+M</b>	MR

(1) Specify quantity; Line wattage only; Separate circuits included  
(2) Consult factory; See page 3 for more details. MR16 constant current for 0-10V & DALI only  
(3) Specify system  
(4) Please consult factory; see page 2  
(5) Specify quantity

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	OTHER (OPTIONAL)		IC CONTROLS (OPTIONAL)		CUSTOM (OPTIONAL)	
<b>SB9</b> surface TB/TG 9/16 <b>SB15</b> surface TB/TG 15/16 <b>SBS</b> surface screw slot t-bar <b>S</b> surface drywall ceiling <b>SC</b> surface solid ceiling	<b>B#</b> battery pack 4' sections	<b>F</b> fuse <sup>(6)</sup> <b>EF</b> end feed <b>FW(#)</b> flex whip (6' std)		<b>DS#</b> daylight sensor <b>OS#</b> occupancy sensor <b>DOS#</b> daylight & occupancy sensor <b>EN#</b> Enlighted integral <sup>(7)</sup> <b>ENR#</b> Enlighted remote <sup>(7)</sup> <b>WC#</b> wireless control dimming		<b>C</b> custom	
	Not available with 347V Please consult factory	(6) Requires 120V or 277V		(7) Please consult factory Specify quantity. Requires 8" blank. See integrated controls guide for more details.		Please specify	

### ● SPECIFICATIONS

#### CONSTRUCTION

<b>Housing</b>	Extruded aluminum (0.075" nominal) Up to 70% recycled content
<b>End Cap</b>	Sheet steel (18 gauge)
<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 - EcoSystem H-Series (1%) LDE5 - EcoSystem 5-Series (5%) LTE - Hi-Lume® A-series 2Wires Forward Phase (1%) <small>*Consult factory</small>
<b>Other drivers</b>	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex LV - line voltage - Advance Mark 10 Xitanium SR - For wireless sensor
<b>Emergency</b>	Integral emergency battery pack or emergency circuit optional.
<b>Input Voltage</b>	120V, 277V, 347V, UNV.

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


### ● FINISHES

Powder coated and custom finishes are also available.

### ● WEIGHT

<b>Surface LED 4 ft</b>	14.5 lbs / 6.6 kg
<b>Surface LED 8 ft</b>	29.0 lbs / 13.2 kg
<b>Surface LED 12 ft</b>	43.5 lbs / 19.7 kg

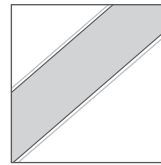
### ● APPROVALS

Certified to UL and CSA standards   
Meets NYC requirements  
Suitable for damp locations.

### ● WARRANTY

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

### ● OPTICS



50 spotless lens

#### SPOTLESS LENS

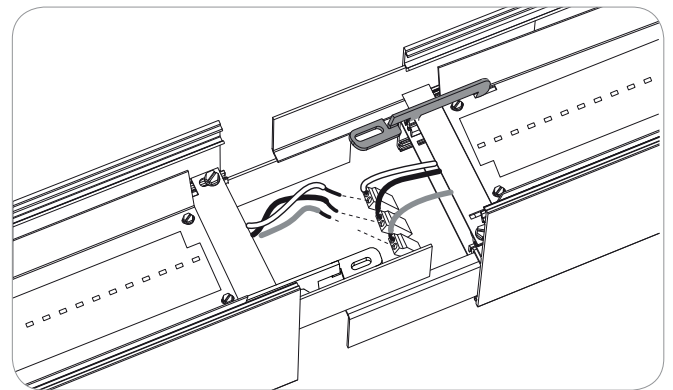
Frosted acrylic snap-in lens with micro lens

### ● SYSTEM (S#)

BEAM 4 LED 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 BEAM 4 LED that are greater than 12ft 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 4 LED installation sheets available for download at [www.axislighting.com](http://www.axislighting.com).

### ● JOINERS

In order to allow very long runs of BEAM 4 LED luminaires, Axis has developed a number of different joining systems. Special care has been taken to maximize the performance of the joiner for each BEAM option.



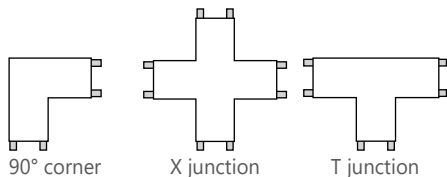
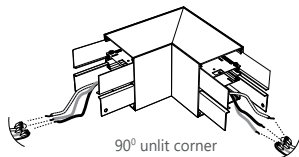
**NOTE:** Mount each system segment individually. Do not assemble system prior to mounting.

### ● LED SYSTEM

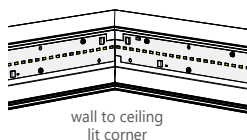
<b>CRI</b>	Minimum 80 or 90 color rendering index
<b>CCT</b>	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3.5-step MacAdam ellipse).
<b>LED life</b>	Minimum 50,000h with 70% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal management</b>	Aluminium housing acting as the heat sink to maximize life.

### ● CORNERS

**Unlit Corners** - BEAM 4 LED features a multitude of layout patterns with the use of a number of corners, 90° corner, T or X junctions.



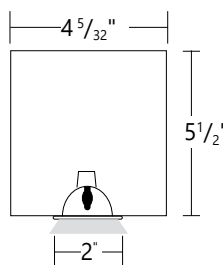
**Lit Corners** - Axis also offers lit 90° corners including ceiling to ceiling, wall to ceiling and ceiling to wall.



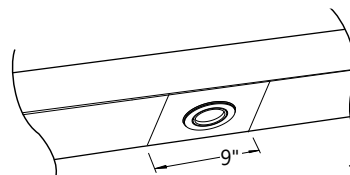
**i** For custom corner angles, please consult factory. Specifications sheets for all corners are available at: [www.axislighting.com](http://www.axislighting.com)

### ● MR16 LED LAMPS

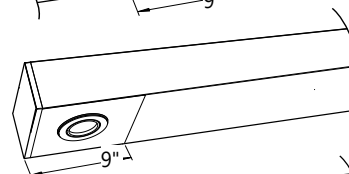
<b>Blank</b>	Extruded aluminum (0.075" nominal)
<b>MR16 Halogens</b>	Adjustable halogen lamp 35W / 50W (by others) - <b>Line voltage dimming only</b>
<b>MR16 LED</b>	Adjustable LED lamp (provided)- <b>Line voltage dimming only</b>
<b>MR16 LEDB</b>	Constant current LED lamp (provided)- <b>Dimmable by control system for 0-10V DALI only</b>
<b>Quantity</b>	For every 4' section, there may be up to a maximum of 4 x MR16 LED lamps.
<b>Spacing</b>	Each MR16 LED lamp is placed centered on a blank section 9" in length. For a series of MR16's within a given section length, they will be spaced evenly on a longer blank section. The directed light of MR16 LED lamps are fixed downward. Custom spacing may be available on special request.



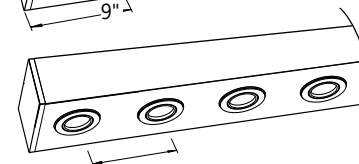
**Between sections**



**At luminaire ends**



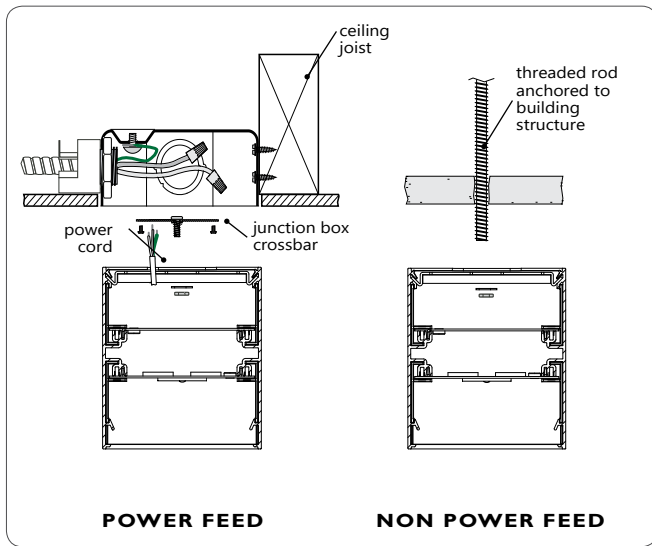
**Several in a long blank section**



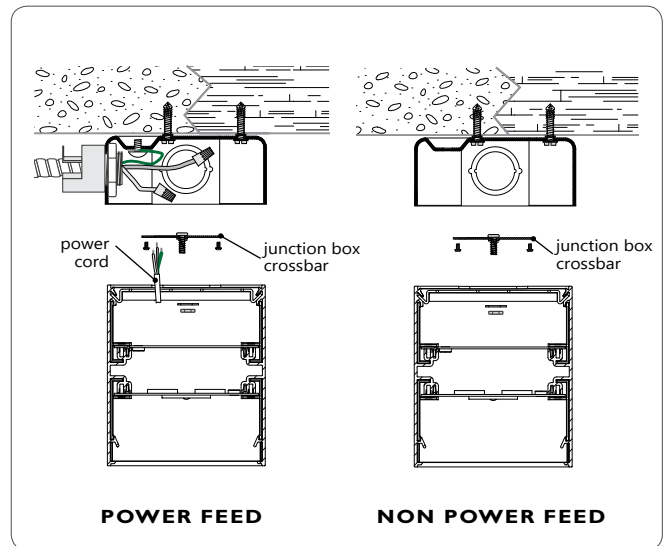
<b>Base Type</b>	GU 5.3
<b>Beam Angle</b>	40 nominal degrees
<b>Input Watts</b>	6W
<b>Nominal Lumens</b>	300 lumens
<b>Efficacy</b>	50 lumens per watt
<b>Color Rendering Index (CRI)</b>	85
<b>Center Beam Candle Power (CBCP)</b>	584 candelas
<b>Life</b>	25,000 hours at L <sub>70</sub>
<b>Correlated color temperature (CCT)</b>	2700K

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

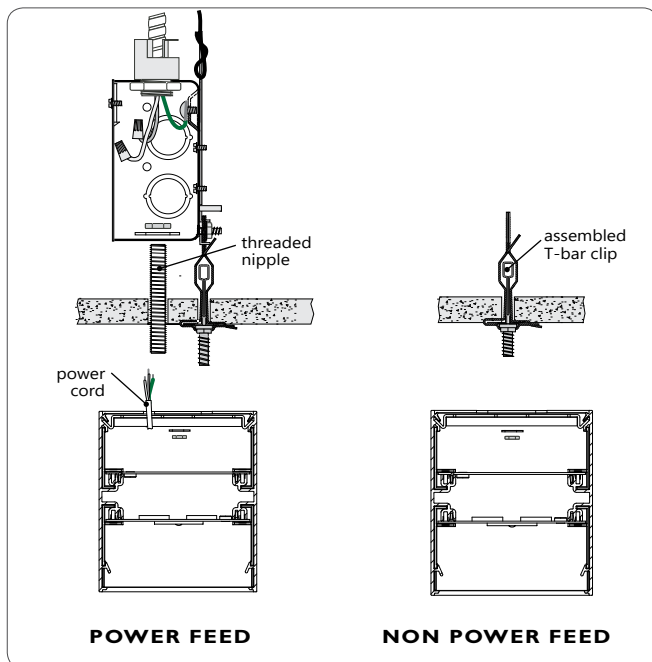
### ● MOUNTING DETAILS



**S SURFACE MOUNT DRYWALL CEILING**



**SC SURFACE MOUNT SOLID CEILING**



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

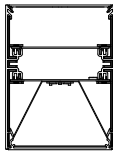
### ● OTHER MOUNTING OPTIONS

BEAM 4 LED is also available with recessed, pendant, wall and recessed vertical mounted options.

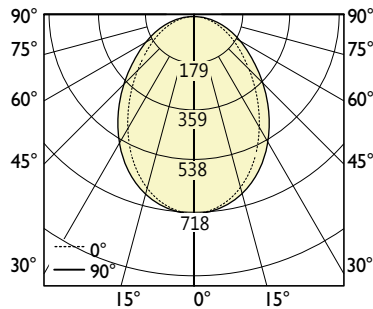
**i** Specification sheets and installation sheets for all mountings for BEAM 4 LED luminaires are available for download at [www.axislighting.com](http://www.axislighting.com)

### PHOTOMETRIC DATA

400 lm/ft



#### PHOTOMETRIC CURVE



**Luminaire Lumens: 400 lm/ft**  
**Input Watts: 3.3 W/ft**  
**Efficacy: 122 lm/W**

IES FILE: BBSLED-400-80-40-SO.IES  
 TESTED ACCORDING TO IES LM-79-2008

#### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	718	718	718	718	718
5	710	712	709	711	713
15	668	668	660	653	652
25	591	585	568	552	546
35	489	479	454	432	423
45	377	368	342	319	310
55	269	261	240	220	212
65	170	164	150	137	132
75	85	81	74	69	66
85	19	18	18	17	17
90	0	0	0	0	0

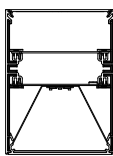
#### ZONAL LUMENS

Zone	Lumens
0	
0-10	67
10-20	186
20-30	261
30-40	285
40-50	265
50-60	215
60-70	150
70-80	80
80-90	21
90	

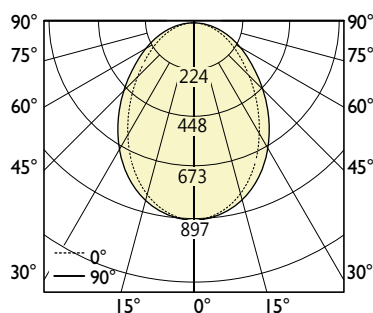
#### LUMINANCE DATA (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	4694	4250	3856
55	4132	3679	3257
65	3548	3119	2747
75	2873	2523	2243
85	1942	1804	1665

500 lm/ft



#### PHOTOMETRIC CURVE



**Luminaire Lumens: 500 lm/ft**  
**Input Watts: 4.3 W/ft**  
**Efficacy: 117 lm/W**

IES FILE: BBSLED-500-80-40-SO.IES  
 TESTED ACCORDING TO IES LM-79-2008

#### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	897	897	897	897	897
5	887	890	886	889	891
15	835	835	825	816	815
25	739	731	710	690	683
35	611	599	568	540	529
45	472	460	427	399	387
55	337	326	300	275	265
65	213	205	187	172	165
75	106	101	93	86	82
85	24	22	22	21	21
90	0	0	0	0	0

#### ZONAL LUMENS

Zone	Lumens
0	
0-10	84
10-20	232
20-30	326
30-40	356
40-50	331
50-60	269
60-70	187
70-80	100
80-90	26
90	

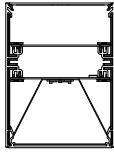
#### LUMINANCE DATA (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	5868	5312	4820
55	5165	4599	4072
65	4435	3899	3434
75	3592	3154	2803
85	2428	2255	2081

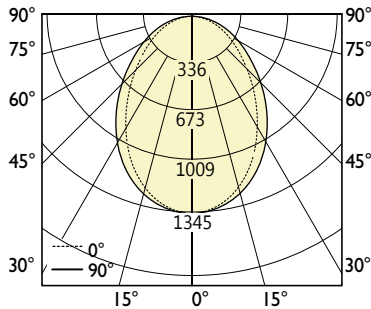
**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)

### PHOTOMETRIC DATA

750 lm/ft



#### PHOTOMETRIC CURVE



**Luminaire Lumens: 750 lm/ft**  
**Input Watts: 6.8 W/ft**  
**Efficacy: 109 lm/W**

IES FILE: BBSLED-750-80-40-SO.IES  
 TESTED ACCORDING TO IES LM-79-2008

#### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1345	1345	1345	1345	1345
5	1331	1335	1329	1334	1336
15	1253	1253	1237	1224	1223
25	1108	1097	1064	1035	1024
35	916	898	852	809	794
45	707	689	640	598	581
55	505	490	450	412	398
65	320	308	281	258	247
75	159	152	139	129	124
85	36	34	34	32	31
90	0	0	0	0	0

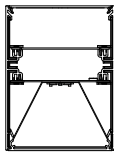
#### ZONAL LUMENS

Zone	Lumens
0	
0-10	126
10-20	348
20-30	490
30-40	534
40-50	496
50-60	404
60-70	281
70-80	150
80-90	39
90	

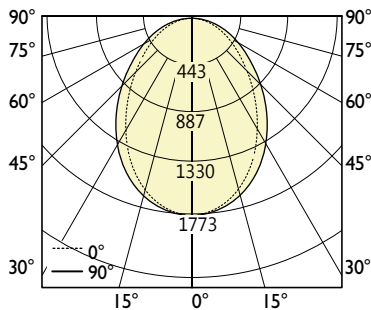
#### LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	8802	7968	7231
55	7748	6898	6107
65	6653	5848	5150
75	5388	4731	4205
85	3642	3380	3122

1000 lm/ft



#### PHOTOMETRIC CURVE



**Luminaire Lumens: 1000 lm/ft**  
**Input Watts: 9.5 W/ft**  
**Efficacy: 105 lm/W**

IES FILE: BBSLED-1000-80-40-SO.IES  
 TESTED ACCORDING TO IES LM-79-2008

#### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1794	1794	1794	1794	1794
5	1775	1780	1771	1778	1782
15	1670	1670	1649	1632	1631
25	1478	1462	1419	1380	1366
35	1222	1198	1136	1079	1058
45	943	919	854	797	775
55	674	653	600	550	531
65	426	411	375	344	330
75	211	203	186	172	165
85	48	45	45	43	41
90	0	0	0	0	0

#### ZONAL LUMENS

Zone	Lumens
0	
0-10	168
10-20	464
20-30	653
30-40	712
40-50	662
50-60	538
60-70	374
70-80	200
80-90	52
90	

#### LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	11736	10624	9641
55	10331	9197	8143
65	8870	7797	6867
75	7183	6307	5607
85	4856	4509	4162

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