



Project \_\_\_\_\_

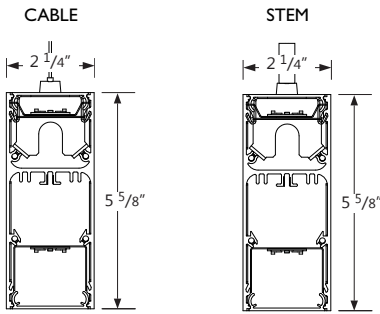
Type \_\_\_\_\_

Notes \_\_\_\_\_

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT		INPUT WATTS*	EFFICACY
UPLIGHT	DOWNLIGHT		
650 lm/ft	400 lm/ft	8.35 W/ft	125 lm/W

Please consult factory for custom lumen output and wattage.



Ordering Guide

TBDILED	650	400		SO
PRODUCT ID	NOM. LUM/FT UP	NOM. LUM/FT DOWN	CRI	SHIELDING
TBDILED Pendant Direct/Indirect LED	650 650 lm/ft uplight	400 400 lm/ft downlight	80 80 CRI 90 90 CRI	SO spotless lens
	Please consult factory	Please consult factory		

LENGTH (FT)	MR (OPTIONAL)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2' 3 3' 4 4' 5 5' 6 6' 8 8' 12 12' S# system run	M11LED(#) MR11 LED	AP aluminum paint W white BLK black C custom	120 120 V 277 277 V 347 347 V (1) UNV universal	DP dimming (0-10V) 1% D dimming (0-10V) 5% 347V standard (2) LT Lutron (3) BI bi-level dimming O other (4)	1 1 circuit 2 2 circuits +E(#) emergency circuit (5) +NL(#) night light circuit (5) +GTD(#) generator transfer device (5) +M MR
	Add 6" per lamp, Specify quantity Separate circuits included Requires 120V or 277V		(1) D dimming (0-10V) 5% standard	(2) For 347V 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)
CA(#) drywall+cable length (36" std.) CT9(#) TB/TG 9/16+cable length (36" std.) CT15(#) TB/TG15/16+cable length (36" std.) CTS(#) ST+cable length (36" std.) SA(#) drywall+stem length >48" (18" std.)	B# battery pack (integral)	F fuse (6) D dust cover	DS# daylight sensor OS# occupancy sensor DOS# daylight & occupancy sensor EN# Enlighted integral (7) ENR# Enlighted remote (7)	C custom
	Requires 120V or 277V Please consult factory	(6) Requires 120V or 277V	(7) Please consult factory Specify quantity. Requires 8" blank. See pages 4-5 for more details.	Please specify

● 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 (20 gauge)
<b>Reflectors</b>	White powder coated sheet steel (22 gauge)
<b>Louvers</b>	Die formed semi-specular aluminum (22 gauge)
<b>Lenses</b>	Extruded acrylic (0.070" nominal) Satin: 68% trans. frosted: 85% trans.
<b>Hanger</b>	Die formed sheet steel (16 gauge)
<b>Suspension</b>	Aircraft cable or Ø 1/2" stem
<b>Cable Grips</b>	Quick connecting / release

● ELECTRICAL

<b>Lutron driver</b>	L3D - Hi-Lume A-Series EcoSystem 3-Wire Control (1%) LDE1 - EcoSystem H-Series (1%) LDE5 - EcoSystem 5-Series (5%) LTE - Hi-Lume® A-series 2Wires Forward Phase (1%)
<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.

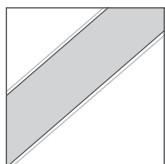
● WARRANTY

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.

● WEIGHT

<b>Direct/Indirect 4 ft</b>	13.2 lbs / 6.0 kg
<b>Direct/Indirect 8 ft</b>	26.4 lbs / 12.0 kg
<b>Direct/Indirect 12 ft</b>	39.6 lbs / 18.0 kg

● OPTICS



50 spotless lens

**SPOTLESS LENS**

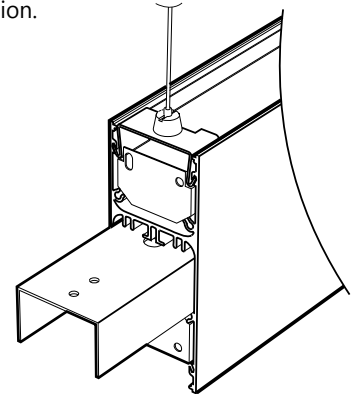
Frosted acrylic snap-in lens with micro lens

● SYSTEM (S#)

TWIN BEAM2 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 TWIN BEAM2 LED 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 TWIN BEAM2 LED installation sheets available for download at [www.axislighting.com](http://www.axislighting.com).

● JOINERS

In order to allow very long runs of TWIN BEAM2 LED luminaires, Axis has developed an effective joining system. Special care has been taken to maximize the performance of the joiner for each BEAM option.

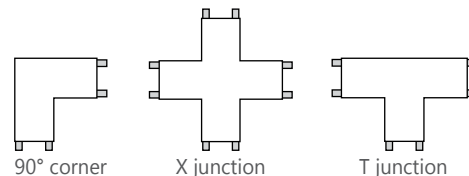
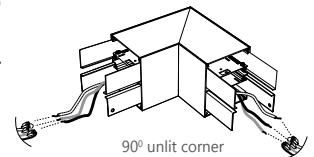


**NOTE:** Mount each system segment individually. Do not assemble system prior to mounting.

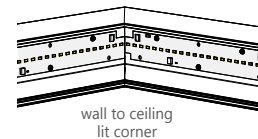
**i** Allow a minimum of 6" between end of long runs and vertical wall

● CORNERS

**Unlit Corners** - TWIN BEAM2 LED features a multitude of layout patterns with the use of a number of corners, 90° corner, T or X junctions.



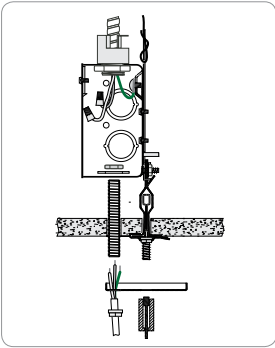
**Lit Corners** - In addition Axis offers lit 90° corners including ceiling to ceiling, wall to ceiling and ceiling to wall.



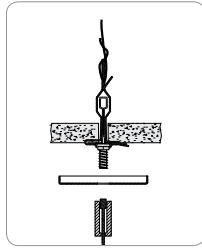
**i** For custom corner angles, please consult factory. Specifications sheets for all corners are available at: [www.axislighting.com](http://www.axislighting.com)

● MOUNTING OPTIONS

**CT TILE CEILING - ON GRID**

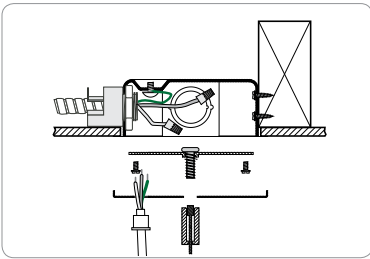


Power feed

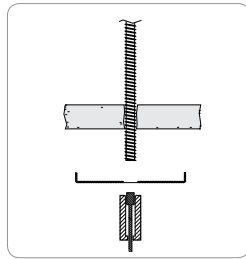


Non power feed

**CA DRYWALL CEILING**

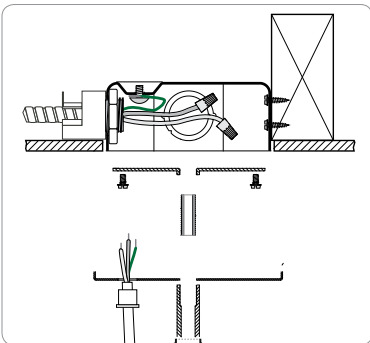


Power feed

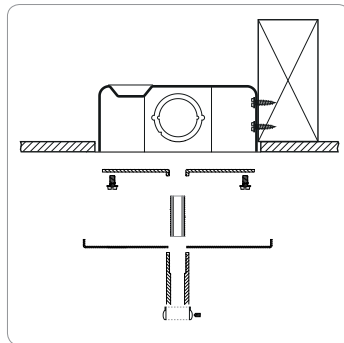


Non power feed

**SA STEM MOUNT IN DRYWALL CEILING**



Power feed



Non power feed

● OTHER MOUNTING OPTIONS

TWIN BEAM2 LED is also available with wall and vertical wall mounted options.

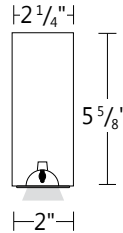
**i** Specification sheets and installation sheets for all mountings for TWIN BEAM2 LED luminaires are available for download at [www.axislighting.com](http://www.axislighting.com)

● MR11 LED LAMPS

**Blank MR11 LED Quantity**

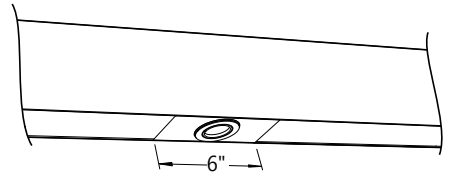
Extruded aluminum (0.075" nominal) 1.4" diameter  
For every 4' section, there may be up to a maximum of 4 x MR11 LED lamps. Each MR11 LED lamp is placed centered on a blank section 6" in length.

**Spacing**

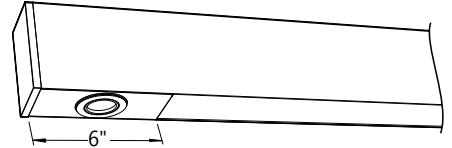


For a series of MR11's within a given section length, they will be spaced evenly on a longer blank section. The directed light of MR11 LED lamps are fixed downward. Custom spacing may be available on special request.

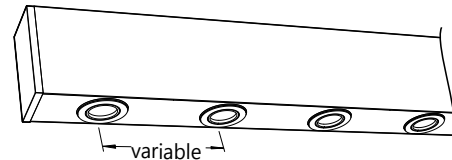
**Between sections**



**At luminaire ends**



**Several in a long blank section**




<b>Beam Angle</b>	45 nominal degrees
<b>Input Watts</b>	3W
<b>Nominal Lumens</b>	50 lumens
<b>Efficacy</b>	17 lumens per watt
<b>Color Rendering Index (CRI)</b>	80
<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.

● FINISH

Aluminium paint, powder coated and custom finishes are also available.

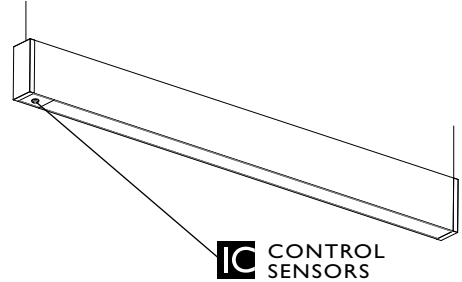
● APPROVALS

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

● **INTEGRATED CONTROLS**

TWIN BEAM2 LED luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (OS) and combination daylight/occupancy sensors (DOS). These options can be seamlessly integrated into our luminaires. The control system could be used to optimize the lighting of the space by reducing energy consumption through daylight harvesting and occupancy, thereby improving the overall interior environment and allowing for LEED credits.

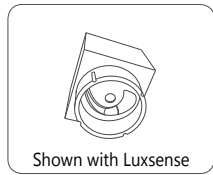
- Consult factory for other options.



The integrated control systems offered are:

● **DAYLIGHT HARVESTING (DS):**

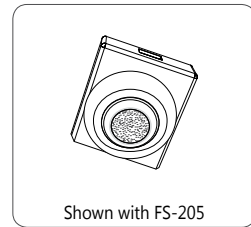
With Daylight sensors, maximum lamp output is reduced according to the available amount of natural light. By reducing maximum lamp output, energy consumption is reduced by up to 20 percent in a process known as "Daylight Harvesting".



Shown with Luxsense  
EC-DIR-WH, FD-301  
Luxsense, Micro Luxsense

● **OCCUPANCY (OS):**

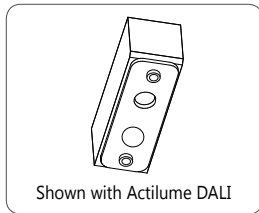
When a room is vacated, occupancy sensors ensure the light will be turned off after a programmed delay as well as ensuring that light remains on while the room is occupied.



Shown with FS-205  
FS-205, FS-355,  
FS-155 - Line Voltage  
FS-505, FS-505C

● **DAYLIGHT HARVESTING AND OCCUPANCY (DOS):**

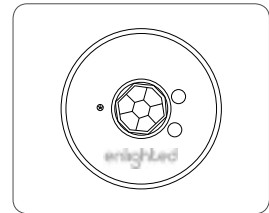
ACTILUME, a combination of Daylight & Occupancy sensor from Philips, along with a 0-10V or DALI driver can be used in one form factor.



Shown with Actilume DALI  
Actilume 1-10V  
Actilume DALI

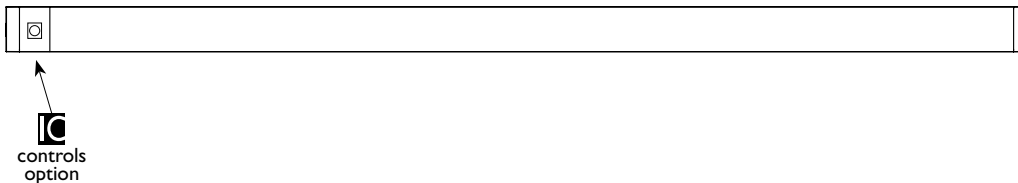
● **ENLIGHTED INTEGRAL (EN) / ENLIGHTED REMOTE (ENR):**

A combination of Daylight, Occupancy & Temperature autonomously control illumination levels, monitor occupancy and environmental conditions. Data is transmitted wirelessly to the Enlighted networked management system.



● **INSTALLATION EXAMPLE**

**Sensor location option**



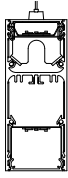
\* Incorporating IC controls may affect the length of the luminaire, please contact factory for more details.

## ● INTEGRATED CONTROL OPTIONS

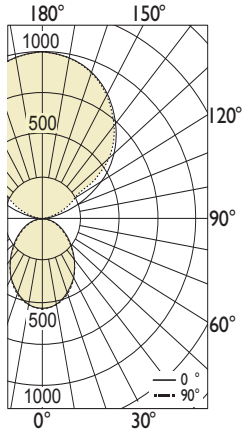
SENSORS	BRAND	Model	TYPE
Daylight Sensor (DS)	Lutron	EC-DIR-WH	Daylight, IR
	Wattstopper	FD-301	Daylight
	Philips	Luxsense, LR1220/00	Daylight
	Philips	Micro Luxsense	Daylight
	Wattstopper	LS-102	Light Saver (Ambient light level)
Occupancy Sensor (OS)	Wattstopper	FS-205v2	PIR Occupancy & Ambient light level
	Wattstopper	FS-355 (need lenses)	PIR Occupancy & Ambient light level
	Wattstopper	FS-155	PIR Occupancy & Ambient light level
	Wattstopper	FS-505	Ultrasonic Occupancy (Staircase)
	Wattstopper	FS-505C	Ultrasonic Occupancy (Open Area)
	Wattstopper	FM-105	High Frequency Occupancy (Wet)
	Lutron TriPak Wireless	LRF2-OCR2B-P-WH	PIR Occupancy
	Lutron	LOS-CDT	Ultrasonic Occupancy + PIR
	Lutron	LOS-CIR	PIR Occupancy
Daylight & Occupancy Sensors (DOS)	Philips	Actilume, LR11655	Daylight & PIR Occupancy
	Wattstopper	FS-305 (need Lenses)	PIR Occupancy
	Wattstopper	FS-305 RC	PIR Occupancy & Ambient light level
	Creston	GLS Series	Daylight and/or PIR Occupancy
	Echoflex	MOS Series	Daylight and/or PIR Occupancy
Enlighted sensor (EN, ENR)	Enlighted integral / remote	SU-3E-00	Daylight, Occupancy & Temperature

● **PHOTOMETRIC DATA**

Uplight 60%  
**650 lm/ft**  
Downlight 40%  
**400 lm/ft**



**PHOTOMETRIC CURVE**



**Luminaire Lumens: 650 lm/ft up**  
**400 lm/ft down**

**Input Watts: 7.7 W/ft**

**Efficacy: 123 lm/W**

IES FILE: TBDILED-650-400-80-35-SO.IES

TESTED ACCORDING TO IES LM-79-2008

**CANDELA DISTRIBUTION**

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	719	719	719	719	719
5	713	715	713	718	719
15	681	683	678	676	678
25	615	614	600	590	586
35	519	513	489	467	458
45	403	393	363	338	328
55	281	271	246	225	217
65	171	164	149	135	129
75	81	79	71	64	61
85	18	15	17	15	15
90	0	0	0	0	0
95	12	8	6	7	7
105	146	125	86	43	35
115	339	336	238	187	191
125	524	517	511	480	422
135	677	673	663	668	668
145	798	795	791	789	788
155	889	892	887	883	881
165	952	953	951	948	949
175	984	992	989	985	985
180	994	994	994	994	994

**ZONAL LUMENS**

Zone	Lumens
0	
0-10	68
10-20	191
20-30	276
30-40	305
40-50	281
50-60	222
60-70	149
70-80	76
80-90	19
90	
90-100	11
100-110	99
110-120	259
120-130	436
130-140	516
140-150	495
150-160	409
160-170	268
170-180	94
180	

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

Vertical Angle	Horizontal Angles		
	0	45	90
45	8909	8018	7250
55	7650	6703	5908
65	6322	5500	4780
75	4868	4280	3693
85	3240	2991	2742

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