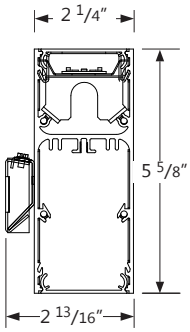
WALL MOUNT - INDIRECT

Project _____

Type _____

Notes _____



PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
640 lm/ft	4.9 W/ft	131 lm/W

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

CONTROL SENSORS

LED BOARD & DRIVER 5 YEAR LUMINAIRE WARRANTY

Ordering Guide

TBWILED	640			C	
PRODUCT ID	**NOM. LUMENS/FT**	**CRI**	**COLOR TEMP.**	**SHIELDING**	**LENGTH (FT)**
TBWILED Wall Indirect LED	**640** 640 lm/ft	**80** 80 CRI **90** 90 CRI	**27** 2700 K **30** 3000 K **35** 3500 K **40** 4000 K	**C** clear	**2** 2′ **3** 3′ **4** 4′ **5** 5′ **6** 6′ **8** 8′ **12** 12′ **S#** system run
	Please consult factory				

MR (OPTIONAL)	FINISH	VOLTAGE	DRIVER	CIRCUITS	BATTERY (OPTIONAL)
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	**B#** battery pack (integral)
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	Requires 120V or 277V Please consult factory

OTHER (OPTIONAL)	IC CONTROLS (OPTIONAL)	CUSTOM (OPTIONAL)
F fuse	**DS#** daylight sensor **OS#** occupancy sensor **DOS#** daylight & occupancy sensor **EN#** Enlighted integral (6) **ENR#** Enlighted remote (6)	**C** custom
Requires 120V or 277V	(6) Please consult factory Specify quantity. Requires 8" blank. See pages 4-5 for more details.	Please specify

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CONSTRUCTION

Housing	Extruded Aluminum (0.075'' nominal) Up to 70% Recycled Content
End Cap	Sheet Steel (18 gauge)
Interior Brackets	Die Formed Sheet Steel (20 gauge)
Reflectors	White Powder Coated Sheet Steel (22 gauge)
Louvers	Die Formed Semi-Specular Aluminum (22 gauge)
Lenses	Extruded Acrylic (0.070'' nominal) Satin: 68% trans. Frosted: 85% trans.
Hanger	Die Formed Sheet Steel (16 gauge)
Suspension	Aircraft Cable or Ø 1/2" Stem
Cable Grips	Quick Connecting / Release

ELECTRICAL

Lutron driver	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%)
Other drivers	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex LV - line voltage - Advance Mark 10 Xitanium SR - For wireless sensor
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV.

ⓘ 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.

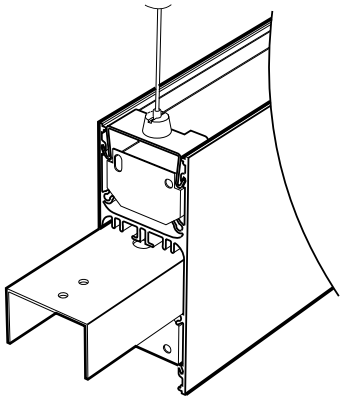
WEIGHT

Wall Indirect 4 ft	13.2 lbs / 6.0 kg
Wall Indirect 8 ft	26.4 lbs / 12.0 kg
Wall Indirect 12 ft	39.6 lbs / 18.0 kg

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.



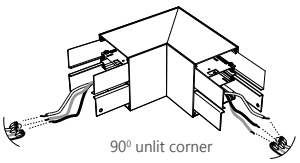
ⓘ Allow a minimum of 6" between end of long runs and vertical wall

SYSTEM (S#)

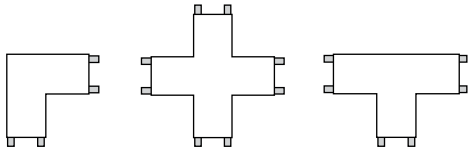
TWIN BEAM2 linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs.
Lengths of 4', 8', 12' as well as custom lengths are available. Runs of TWIN BEAM2 LED that are greater than 12' in length are designated as systems (S#). This means that the 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.

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.

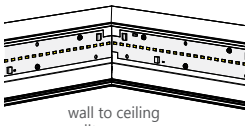


90º unlit corner



90° corner X junction T junction

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



wall to ceiling lit corner

ⓘ For custom corner angles, please consult factory. Specifications sheets for all corners are available at: www.axislighting.com

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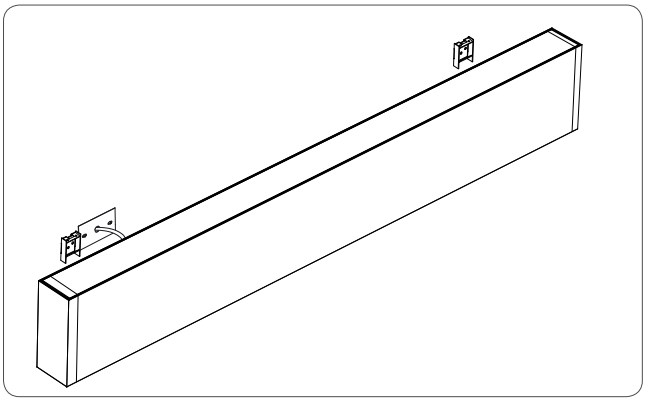
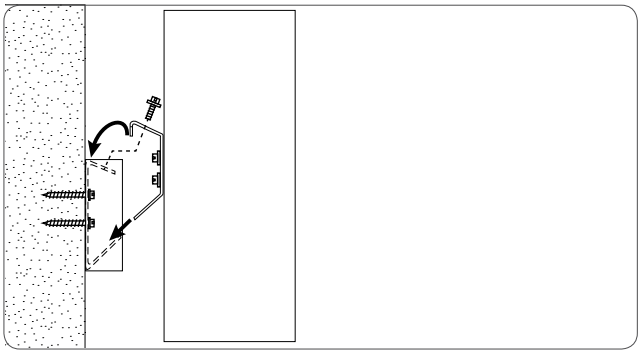
HORIZONTAL MOUNTING DETAILS



MOUNTING BRACKETS



SIDE VIEW

OTHER MOUNTING OPTIONS

TWIN BEAM2 LED is also available with pendant and asymmetric mounted options.

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

FINISH

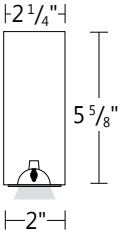
Aluminium paint, powder coated and custom finishes are also available.

APPROVALS

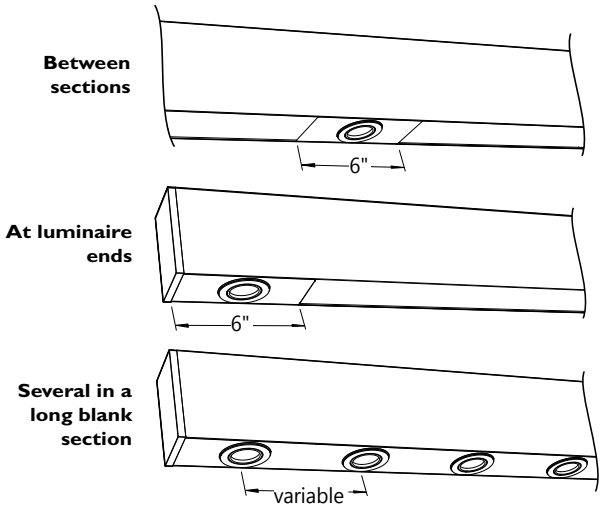
Certified to UL and CUL standards
Meets NYC requirements
Meets ADA requirements.
Suitable for damp locations.

MR11 LED LAMPS

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



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.



Beam Angle	45 nominal degrees
Input Watts	3W
Nominal Lumens	50 lumens
Efficacy	17 lumens per watt
Color Rendering Index (CRI)	80
Life	25,000 hours at L_{70}
Correlated color temperature (CCT)	2700K

More options are available upon request. Please consult factory.

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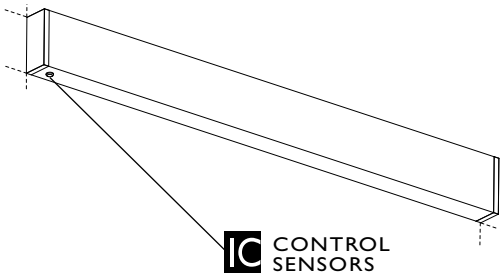
INTEGRATED CONTROLS



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):

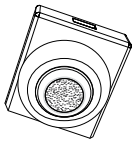
With Daylight sensors, maximum lamp output is reduced according to the available amount of natural light. By reducing maximum lamp output, energy consumption is reduced by up to 20 percent in a process known as "Daylight Harvesting".


Shown with Luxsense

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

OCCUPANCY (OS):

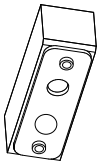
When a room is vacated, occupancy sensors ensure the light will be turned off after a programmed delay as well as ensuring that light remains on while the room is occupied.


Shown with FS-205

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

DAYLIGHT HARVESTING AND OCCUPANCY (DOS):

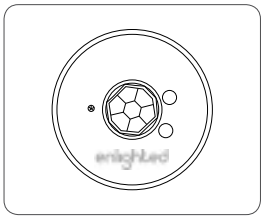
ACTILUME, a combination of Daylight & Occupancy sensor from Philips, along with a 0-10V or DALI driver can be used in one form factor.


Shown with Actilume DALI

Actilume 1-10V
Actilume DALI

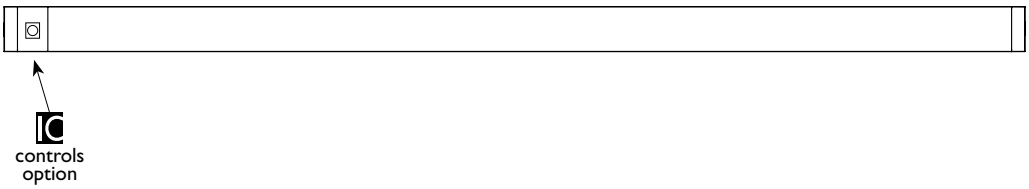
ENLIGHTED INTEGRAL (EN) / ENLIGHTED REMOTE (ENR):

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.

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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

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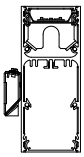
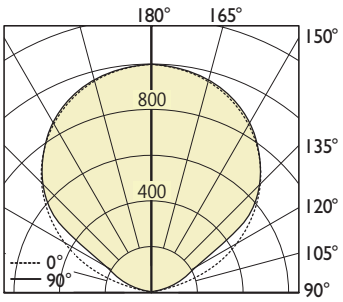
PHOTOMETRIC DATA

640 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 640 lm/ft
Input Watts: 4.9 W/ft
Efficacy: 131 lm/W
IES FILE: TBWILED-640-80-35-C.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	**0**	**22.5**	**45**	**67.5**	**90**
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

	Lumens
Zone	
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	

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