

## PROJECT INFORMATION

Project:

Type:

Notes:

REVIT files are available for download at [www.axislighting.com](http://www.axislighting.com)

SHOWN WITH LENS OPTION

## PRODUCT ORDERING CODE

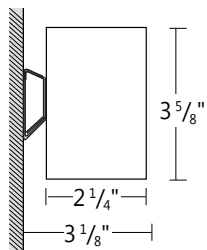
product id	optics lens	length/ft	lamp	lamp config.	MR11	finish	voltage	ballast	circuits	other	controls	custom
<b>BWD</b> <b>BWI</b> <b>BWV</b>	wall direct wall indirect wall vertical	2 3 4 5 6 8 12 S# system	<b>T5</b>	0 I +S zero lamps one lamp staggered		<b>W</b> <b>AP</b> <b>C</b> white alu. paint custom		<b>ERS</b> <b>D</b> <b>T</b> rapid start dimming step dimming *See Ballast Guide for further details.		<b>D*</b> <b>B#</b> <b>F</b> dust cover batt. pack (specify details) fuse		<b>C</b> custom (describe below)
<b>S</b> <b>F</b> <b>PL</b>	satin lens frosted lens semi spec para. louver		<b>T5</b>		<b>MR11#</b> <b>MR11LED#</b> MR11 halogen MR11 LED (add 6" per lamp) *for more details see page 3		<b>UNV</b> <b>120</b> <b>277</b> <b>347*</b> *Please consult factory		<b>1</b> <b>2</b> <b>+E</b> <b>+M</b> one circuit two circuits em. circuit +MR11		<b>DS</b> <b>OS</b> <b>DS+OS</b> <b>DOS</b> daylight occ. daylight+occ. daylight&occ. *See Integrated Controls Guide for further details.	

Dimming Ballast, Battery Pack and Integrated Control Details:

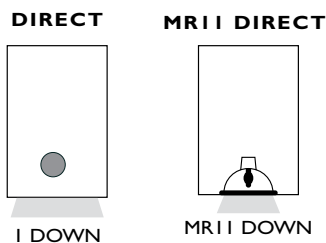
Custom Description:

**i** Specification sheets for other lamping are available for download at [www.axislighting.com](http://www.axislighting.com)

## DIMENSIONS



## LAMPING CONFIGURATIONS



**i** Meets ADA requirements

## CONSTRUCTION

<b>Housing</b>	Extruded Aluminum (0.075" nominal) 70% Recycled Content
<b>End Cap</b>	Die Cast Zinc (0.060" nominal)
<b>Interior Brackets</b>	Die Formed Sheet Steel (20 ga)
<b>Reflectors</b>	White Powder Coated Sheet Steel (22 ga)
<b>Louvers</b>	Die Formed Semi-Specular Aluminum (22 ga)
<b>White Louver</b>	Die Formed Aluminum Painted White (22 ga)
<b>Blank</b>	Extruded Aluminum (0.075" nominal)
<b>Lenses</b>	Extruded Acrylic (0.070" nominal) Satin: 68% trans. Frosted: 85% trans.

**Wall Mount Bracket** Die Formed Sheet Steel (16 gauge)

**Vertical Wall Mount Bracket** Die Formed Sheet Steel (18 gauge)

## WEIGHT

<b>4 ft</b>	10.5 lbs / 4.8 kg
<b>8 ft</b>	21.0 lbs / 9.6 Kg
<b>12 ft</b>	31.5 lbs / 14.4 Kg

## SYSTEM (S#)

BEAM 2 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 2 that are greater than 12ft in length are designated as systems (S#). This means that the run is comprised of a combination 4ft, 8ft and/or 12ft 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](http://www.axislighting.com).

## ELECTRICAL

<b>Ballast</b>	Electronic rapid start, Dimming (0-10V, Line, Step, EcoSystem, DALI) With preinstalled ballast disconnect as per NEC & CEC
<b>Emergency Voltage</b>	Emergency battery pack or emergency circuit 120V, 277V, 347V, UNV.

**i** Incorporating these components may have limitations or effect the length of the luminaire, please contact factory for more details.

## FINISH

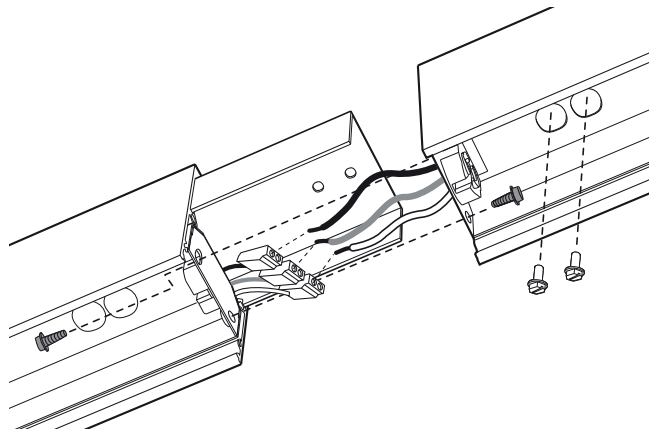
Aluminium paint, Powder Coated and custom finishes are also available.

## APPROVALS

Certified to UL and CUL standards   
Meets NYC requirements and ADA requirements.

## JOINERS

In order to allow very long runs of BEAM 2 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.



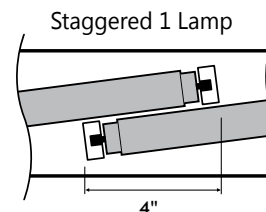
**NOTE:** Mount each system segment individually. Do not assemble system prior to mounting.

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

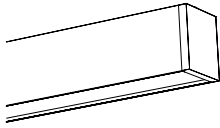
## STAGGERED LAMPING

When the BEAM 2 is used in continuous runs longer than 4', staggered lamping can be used to eliminate the appearance of socket shadows at the ends of the lamps. The BEAM 2 uses a staggered overlap of bracket lengths (4"), along with 3' and 4' lamps, allowing us to match almost any row length requirements with optimal results. For example 3 x 3' staggered T5 lamps can be used to completely illuminate the lens of an 8' nominal luminaire.

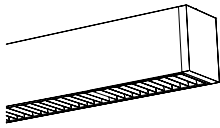
LAMP TYPE	T5	T5HO
1 lamp	•	•



## ● OPTICS



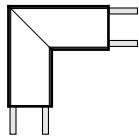
**SATIN & FROSTED LENS**  
(acrylic snap-in lens)  
satin: 68% transmissive  
frosted: 85% transmissive



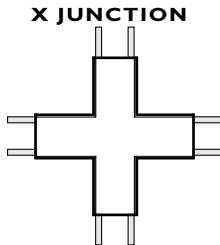
**LOUVERS**  
(semi-spec. parabolic louver)  
9/16" deep blades – 5/8" spacing  
72 blades per 4'

## ● CORNERS

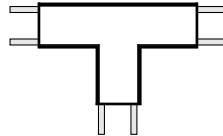
**UNLIT CORNERS** - BEAM 2 features a multitude of layout patterns with the use of a number of corners.  
Custom corners include:



90° CORNER



X JUNCTION



T JUNCTION

**i** Specifications sheets for all corners are available at:  
[www.axislighting.com](http://www.axislighting.com)

## ● MR11

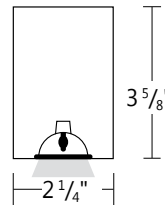
**Blank**  
**MR11 Halogens**  
**MR11 LED**  
**Quantity**

Extruded Aluminum (0.075" nominal)  
1.4" diameter (20W / 35W)  
1.4" diameter

For every 4' fluorescent lamp section, there may be up to a maximum of 4 x MR11 lamps.

### Spacing

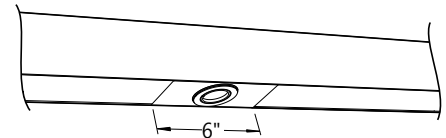
Each MR11 is placed centered on a blank section 6" in length.



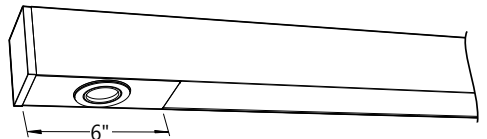
For a series of MR11's within a given section length, they will be spaced evenly on a longer blank section.  
The directed light of MR11 Halogen lamps are fixed downward.

Custom spacing may be available on special request.

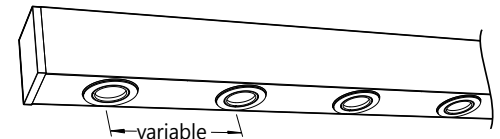
**Between  
fluorescent  
lamps sections**



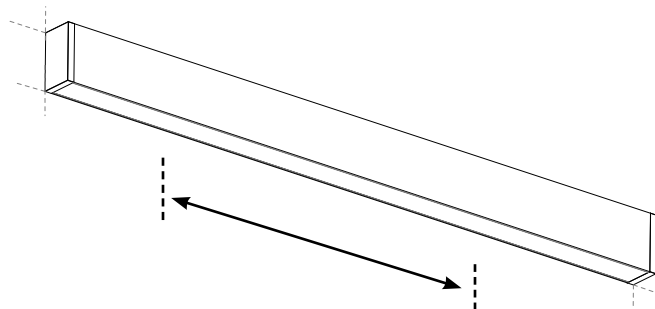
**At luminaire  
ends**



**Several in a  
long blank  
section**



## ● MOUNTING SPACING



### END TO END

#### T5/T5HO

BEAM2 4' (32" C.C.)

BEAM2 8' (80" C.C.)

BEAM2 12' (112" C.C.)

#### T8

BEAM2 4' (32" C.C.)

BEAM2 8' (80" C.C.)

BEAM2 12' (128" C.C.)

**NOTE:** Use stud if possible for mounting

### STAGGERED

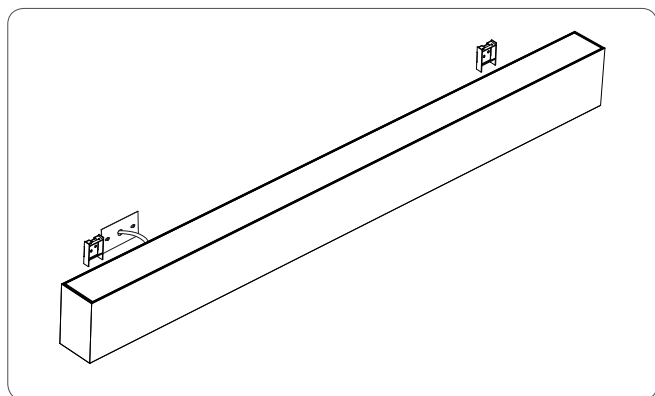
#### I LAMP

#### T5/T5HO

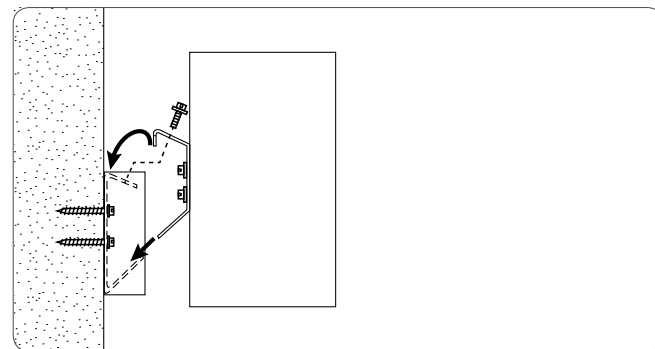
BEAM2 8' (64" C.C.)

BEAM2 12' (112" C.C.)

## ● HORIZONTAL MOUNTING DETAILS

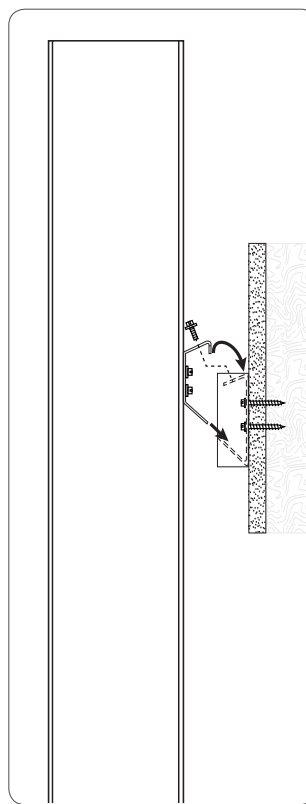


### MOUNTING BRACKETS

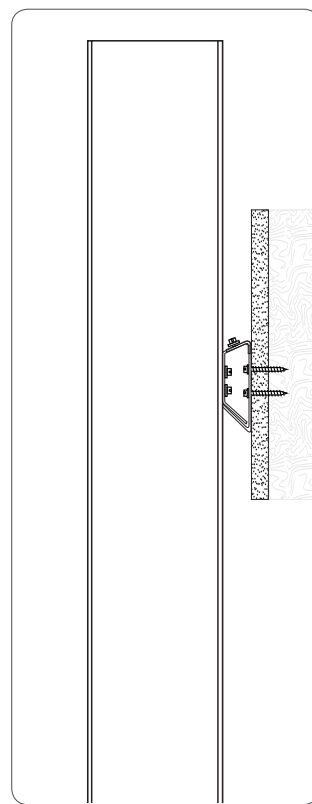


### SIDE VIEW

## ● VERTICAL MOUNTING DETAILS



### MOUNTING BRACKETS

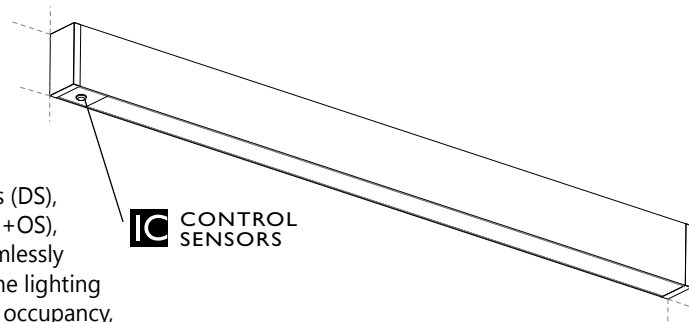


### SIDE VIEW

## ● OTHER MOUNTING OPTIONS

BEAM 2 is available with recessed, pendant, surface, wall, asymmetric and recessed wall mounted options.

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



## ● INTEGRATED CONTROL OPTIONS

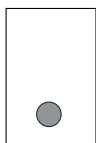
BEAM 2 luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (OS), individual daylight sensors and occupancy sensors (DS+OS), and combination daylight/occupancy sensors (DOS). These options can be seamlessly integrated into our luminaires. The control system 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.
- Refer to IC brochure for more information.

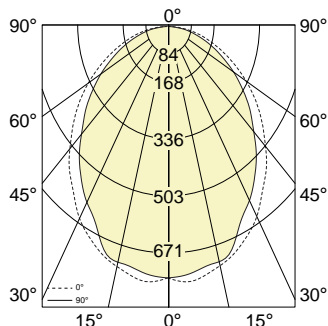
SENSORS	BRAND	Model	TYPE	CODE	COMPATIBLE DIMMING BALLAST
Daylight Sensor (DS)	Lutron	EC-DIR-WH	Daylight	LD	EcoSystem
	Wattstopper	FD-301	Daylight	WD	0-10V
	Philips	Luxsense	Daylight	PL	0-10V
Occupancy Sensor (OS)	Wattstopper	FS-205	PIR Occupancy	WP1	Programmed Rapid Start
		FS-355	PIR Occupancy	WP2	Programmed Rapid Start
		FS-155	PIR Occupancy	WP3	Programmed Rapid Start
		FS-505	Ultrasonic Occupancy	WU1	Programmed Rapid Start
		FS-505C	Ultrasonic Occupancy	WU2	Programmed Rapid Start
		FM-105	High Frequency Occupancy	WH	Programmed Rapid Start
Daylight & Occupancy Sensors (DOS)	Philips	Actilume	Daylight & PIR Occupancy	PA	DALI or 0-10V

## ● PHOTOMETRIC DATA

### I T5



### PHOTOMETRIC CURVE



**Test Lamp: 1xF28T5**

IES FILE: BD-F-4-T5-1

**Efficiency: 55.7%**

### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	737	737	737	737	737	
5	750	739	729	755	728	40
15	702	689	675	676	692	166
25	616	598	585	576	564	256
35	504	495	474	453	452	295
45	389	375	355	340	339	285
55	281	268	255	238	237	242
65	180	175	161	152	149	179
75	100	94	86	80	77	109
85	32	28	23	19	18	42
90	5	4	1	0	1	

### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	7363	3305	2651
55	6363	2373	1811
65	5285	1547	1141
75	4328	882	617
85	2808	257	150

### COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	
0	67	67	67	67	65	65	65	65	62	62	62	
1	61	59	56	54	60	57	55	54	55	53	52	
2	56	52	48	45	55	51	47	45	49	46	44	
3	51	46	42	38	50	45	41	38	43	40	37	
4	47	41	36	33	46	40	36	33	39	35	32	
5	44	37	32	29	43	36	32	28	35	31	28	
6	41	33	29	25	40	33	28	25	32	28	25	
7	38	31	26	23	37	30	26	22	29	25	22	
8	35	28	23	20	34	28	23	20	27	23	20	
9	33	26	21	18	32	25	21	18	25	21	18	
10	31	24	20	17	30	24	20	17	23	19	17	

Based on floor reflectance of 20

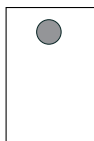
**i** All IES files for other lamping are available for download at: [www.axislighting.com](http://www.axislighting.com)

FILE NAME: BV.T5.SPEC December 11, 2011

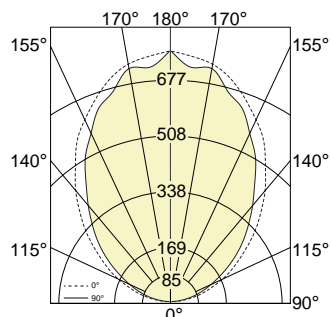
Page: 5 / 6

## ● PHOTOMETRIC DATA

### I T5



### PHOTOMETRIC CURVE



**Test Lamp: 1xF28T5**

IES FILE: BI-F-4-T5-1

**Efficiency: 55.7%**

### CANDELA DISTRIBUTION

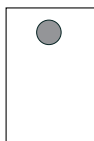
Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
90	7	4	1	1	1	
95	32	27	22	19	17	13
105	100	94	88	80	78	76
115	183	175	162	153	146	145
125	276	267	253	241	237	213
135	387	377	356	338	333	266
145	500	493	471	451	444	295
155	610	602	588	572	565	282
165	701	691	683	678	662	217
175	748	749	743	731	714	104
180	761	761	761	761	761	

### COEFFICIENTS OF UTILIZATION (%)

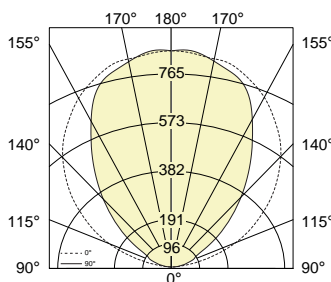
Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	53	53	53	53	45	45	45	45	31	31	31	31
1	48	46	44	42	41	39	38	36	27	26	25	25
2	44	40	37	35	37	34	32	30	24	22	21	21
3	40	35	32	29	34	30	27	25	21	19	17	17
4	37	31	27	24	31	27	23	21	18	16	15	15
5	33	27	23	20	28	24	20	18	16	14	12	12
6	31	24	20	17	26	21	18	15	14	12	11	11
7	28	22	18	15	24	19	15	13	13	11	9	9
8	26	20	16	13	22	17	14	11	12	10	8	8
9	24	18	14	11	20	15	12	10	11	8	7	7
10	22	16	12	10	19	14	11	9	10	8	6	6

Based on floor reflectance of 20

### I T5



### PHOTOMETRIC CURVE



**Test Lamp: 1xF14T5**

IES FILE: BI-NO-4-T5-1

**Efficiency: 69.9%**

### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
90	3	3	2	1	1	
95	26	22	21	19	19	12
105	167	105	69	67	63	75
115	330	256	162	116	106	163
125	474	419	308	248	229	271
135	602	573	468	398	378	359
145	701	689	641	565	543	394
155	780	770	753	730	722	365
165	831	817	815	814	806	264
175	842	860	834	854	851	119
180	847	847	847	847	847	

### COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	67	67	67	67	57	57	57	57	39	39	39	39
1	61	58	55	53	52	49	47	46	34	33	32	32
2	55	50	47	43	47	43	40	37	30	28	26	26
3	50	44	40	36	43	38	34	31	26	24	22	22
4	46	39	34	30	39	33	29	26	23	20	18	18
5	42	34	29	25	36	30	25	22	20	18	16	16
6	38	31	25	22	33	26	22	19	18	15	13	13
7	35	27	22	19	30	24	19	16	16	14	12	12
8	33	25	20	16	28	21	17	14	15	12	10	10
9	30	22	17	14	26	19	15	12	13	11	9	9
10	28	20	16	12	24	17	13	11	12	9	8	8

Based on floor reflectance of 20

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