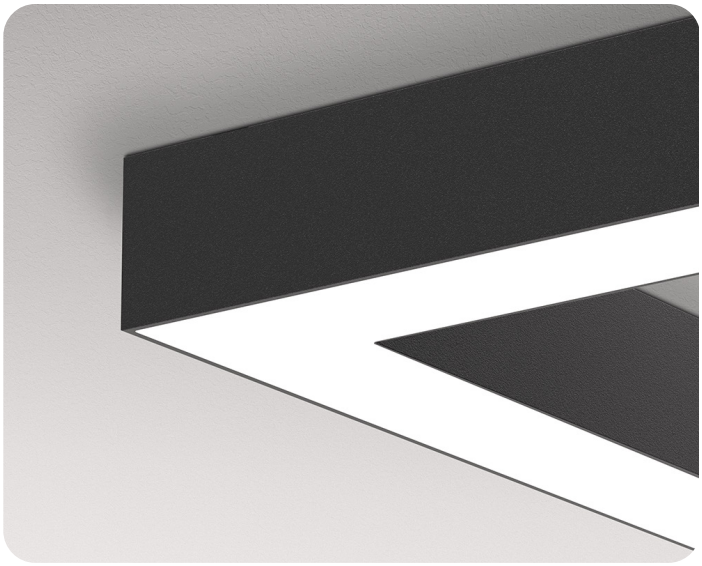
STARTEK
ARCHITECTURAL LIGHTING

Rep/Agent		Type	
Project			
Order No.		Date	

Beam Shape Surface



Key Features

- Extruded aluminum single piece housing
- Continuous lensing standard – runs up to 100'
- Soft diffuse direct lighting
- Light levels can be factory set
- 0-10V dimming to 1% is standard
- Efficacy up to 135 lm/W
- Consult factory for TM21, TM30, LM79 and LM80

5 Year Warranty · BABA Compliant · BAA Compliant · Intertek · DLC LISTED · RoHS Compliant · Declare.

Specifications

Construction

- Continuous extruded 6063 T5 aluminum
- Mechanically attached end caps with no exposed fasteners enhance architectural aesthetic and prevent light leak.

Dimensions

- Nominal dimensions: 3.5" x 3.5"
- Nominal thickness: 0.075"

Finish

- Powder coated
- Colors: White, Black, Silver or Premium Finishes
- End Caps: Color-matched to housing
- Custom colors available. Consult factory for more information.

Luminaire Length

- Standard individual lengths: 2', 4', 6' or 8'
- Fixture and run lengths are available in 1/16" increments.
- Using internal joiners, sections can be joined to form longer, continuous rows.

Source

- CCT options: 2700K, 3000K, 3500K, 4000K, or 5000K
- All within 3 MacAdam ellipses
- 90 CRI (R9 50 min) available

Lensing

- 0.060" thick impact resistant acrylic lens
- Snap-in lens and reflector for easy install

Operating Temperature

- -40°C to 50°C (-40°F to 122°F)

Lithium Ion Battery

- Provides up to 780 lm (6W) or up to 1300 lm (10W) for 90 minutes.
- Certifications: UL924 listed, Class 2 compliant, and Title 20 CEC (California Energy Commission) compliant

Dimming (Integral) Driver

- Constant current programmable LED driver
- Output current: 0-10V, dim to 1% (UL listed, Class P)
- Ring wave surge protection: 2.5KV ring
- Power factor: >0.90

Generator Transfer Device

- Luminaires with GTD option provides a UL924 shunt relay to bypass normal power, switches, and 0–10V dimming.

Certifications

- Build America Buy America compliant
- Buy American Act compliant
- Intertek cETLus Listed
- DLC listed
- RoHS (Restriction of Hazardous Substances)
- JA8 compliant
- Suitable for dry and damp locations

Packaging

- Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

Warranty

- 5-year limited warranty.

The information in this document is subject to change without notice.
Contact STARTEK for most up to date product details.

Ordering Logic

BEAMD-4X6RECT-750-SD-35K-80-PW-SM-U-1C-1EMB10

Series	Length[1]	Direct Output[2]	Direct Distribution	CCT	CRI
BEAMD					
	_X_RECT - Rectangle	**250 -** 250 LPF	**SD -** SatinIce Diffuse	**27K -** 2700K	**80 -** 80 CRI
	_X_L - L-Shape	**500 -** 500 LPF	**WD -** Wide Diffuse	**30K -** 3000K	**90 -** 90 CRI (R9 50 min)
	_X_X_U - U-Shape	**750 -** 750 LPF	**WW -** Wall Wash	**35K -** 3500K	
	_X_T- T-Shape	**1000 -** 1000 LPF	**GRZ -** Wall Graze	**40K -** 4000K	
	_X_X_X_X - X-Shape	**XXX -** Custom LPF	**Drop Lens w/ Lit Ends[3]**	**50K -** 5000K	
			DLE05 - 0.5"	**TW -** Tunable White[4] (2700K-6500K)	
			DLE10 - 1.0"		
			DLE15 - 1.5"		

Finish[5]	Mounting	Voltage	Circuiting	Emergency
	SM			
Standard Powder Coat	**SM -** Surface Mount	**U -** 120-277V	**1C -** Single Circuit	**BLANK -** None
PW - White		**C -** 347V	**MC -** Multiple Circuits[6, 7]	**EC -** Emergency Circuit[10]
PB - Black			**DL -** Daylight Control[6, 8]	**#EMB6 -** 6W EM Battery[11, 12]
PS - Silver			**NL -** Night Lights[6, 9]	**#EMB10 -** 10W EM Battery[11, 12]
Premium				**#FCEMB10 -** 10W EM Battery[12, 13]
RALXXXX - Powder Coat Gloss Finish				**#FCEMB14 -** 14W EM Battery[12, 13]
PSFX - Premium Stock Finish				**#GTD -** Generator Transfer Device w/ ALCR[14]
Custom Powder Coat				
PO - Powder Other				

Options

Specialty Drivers[15]	Sensors
DT1 - eldoLED EcoDrive Dim to 1% (0-10V)	**DMXX% -** Daylight/Motion Sensor (XX%-% Min. Dimming)
DTZ - eldoLED SoloDrive Dim to 0.1% (0-10V)	**VDO -** Lutron Vive Integral Fixture Control (RF w/ Daylight and Occupancy)
PSRD - Philips Sensor Ready (DALI) Driver	**AWNR -** Lutron Athena Wireless Node (RF Only)[19]
LDE1 - Lutron Hi-Lume EcoSystem LED Driver w/ Soft-on, Fade-to-Black	**AWNS -** Lutron Athena Wireless Node w/ Sensor[19]
TW-A - Tunable White, 0-10V[16]	**NLA -** Acuity nLight Air[18]
TW-EL - eldoLED DUALdrive Tunable White (DALI)[16]	**NLW -** Acuity nLight Wired[18]
LD2 - Lutron DALI 2 Digital Tunable White Driver w/ 1% Dimming[17]	**WVL -** Cooper Wavelinx[18]
HD-XX - HyperDrive Remote Driver[18]	

Ordering Notes

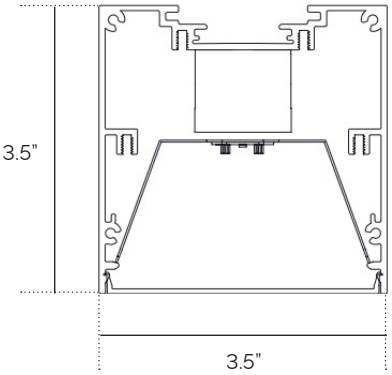
1. Replace underscore (_) with fixture leg length. See page 8.
2. 200 LPF min. output / 1500 LPF max. output.
3. Seamless continuous lens unavailable for Drop Lens options.
4. Tunable White Driver must be specified in options.
5. See page 3 for standard and premium options.
6. Customer to specify number of zones and locations through factory submittal drawings.
7. Multiple low and line control zones.
8. Multiple low voltage control zones for daylight control.
9. Multiple unswitched wires for night light control zones.
10. '#' indicates number per run.
11. Provided by Iota/Bodine.
12. EM battery is factory choice.
13. Separate power, transfer devices provided by others.
14. Iota EDS-DR Emergency Control Device
15. Standard driver is 0-10V, dim to 1% output current.
16. 75 Watt Max. Dual driver required for higher fixture wattage.
17. 50 Watt Max. Dual driver required for higher fixture wattage.
18. Consult factory.
19. Athena sensor matches finish for white and black fixtures.

The information in this document is subject to change without notice.
Contact STARTEK for most up to date product details.

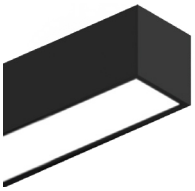
STARTEK
ARCHITECTURAL LIGHTING

Beam Shape Surface

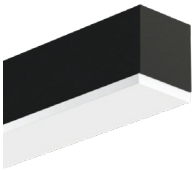
Dimensions



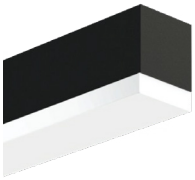
Diffusing



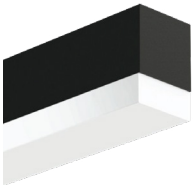
Flush
3.5" Height



DLE05
4.0" Height



DLE10
4.5" Height



DLE15
5.0" Height

Finishes

Standard



PW: White



PB: Black



PS: Silver

Premium Stock



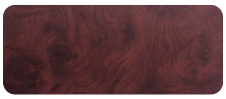
PSF001: Wood 1



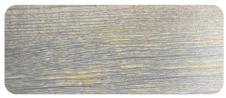
PSF002: Wood 2



PSF003: Wood 3



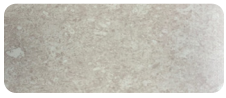
PSF004: Wood 4



PSF005: Wood 5



PSF006: Wood 6



PSF007: Stone 1



PSF008: Stone 2

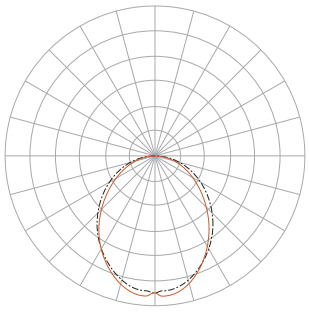


PSF009: Stone 3

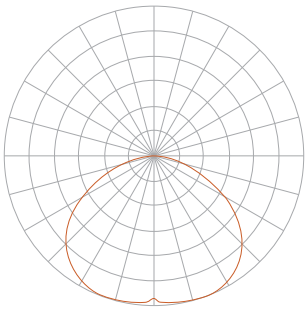
NOTE: A minimal impact to lead times will apply to products specified with Premium Stock Finishes (PSF). It is not to be assumed that these finishes are stocked in our warehouse, but rather, are readily available to us for your project.

All other custom finishes (PO) will incur a set up fee and will add an extended lead time to your project.

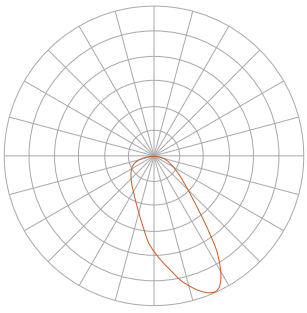
Distribution



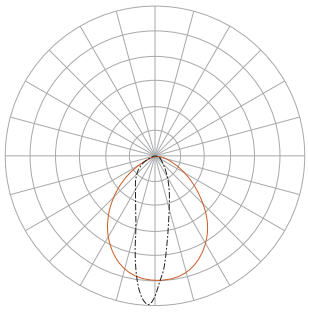
Direct: SatinIce Diffuse (SD)



Direct: Wide Diffuse (WD)



Direct: Wall Wash (WW)



Direct: Wall Graze (GRZ)

Performance

Power

Direct LPF	Total Lumens	Satin Diffuse (SD)		Wide Diffuse (WD)		Wall Wash (WW)	
		LPW	W/ft.	LPW	W/ft.	LPW	W/ft.
300	2800	130	3	124	3	125	3
500	4000	130	4	124	4	125	4
750	6000	130	6	124	6	125	6
1000	8000	130	8	124	8	125	8

NOTE: Based on 8' lengths at 35K CCT and 80 CRI modules. All wattage values are rounded up. Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%.

Wattage Multiplier

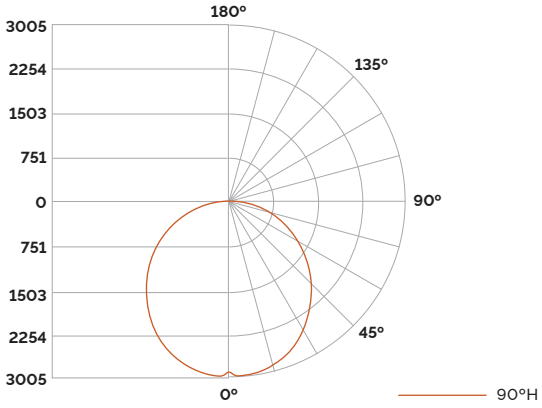
CRI	CCT	4' Length	8' Length
80 CRI	3000K	1.11	1.05
	3500K	1.05	1.00
	4000K	1.03	0.98
	5000K	1.02	0.97
90 CRI	3000K	1.17	1.11
	3500K	1.11	1.05
	4000K	1.08	1.03
	5000K	1.07	1.02

Multiplier How-To

To determine CRI/CCT configuration wattage:
Choose wattage from Power matrix for desired optic and lumen output for 8' fixture length.

Wattage x Multiplier = New Configuration Wattage

BEAMD-8-1000-SD-35K-80



Luminance Data (cd/sq.m)

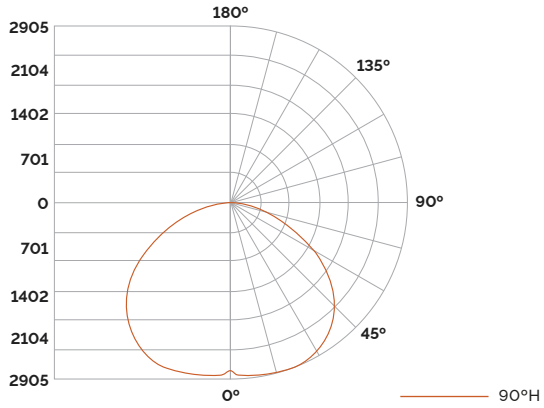
Angles	Avg. 0°	Avg. 45°	Avg. 90°
45°	10,586	10,610	10,819
55°	10,136	10,045	10,256
65°	9,464	9,278	9,548
75°	8,153	8,214	8,591
85°	6,139	6,705	7,191

Candela Table

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2955	2955	2955	2955	2955
5	2922	2910	2927	2961	2993
10	2877	2859	2878	2912	2945
15	2800	2778	2797	2831	2864
20	2692	2669	2690	2722	2753
25	2555	2533	2560	2587	2616
30	2396	2376	2404	2430	2457
35	2218	2202	2231	2253	2277
40	2032	2014	2042	2062	2085
45	1838	1818	1842	1858	1878
50	1640	1613	1633	1647	1644
55	1427	1400	1414	1430	1444
60	1210	1179	1190	1204	1218
65	982	954	963	978	991
70	746	727	738	753	765
75	518	504	522	537	546
80	307	300	321	336	341
85	131	126	143	149	154
90	0	0	0	0	0

Performance

BEAMD-8-1000-WD-35K-80



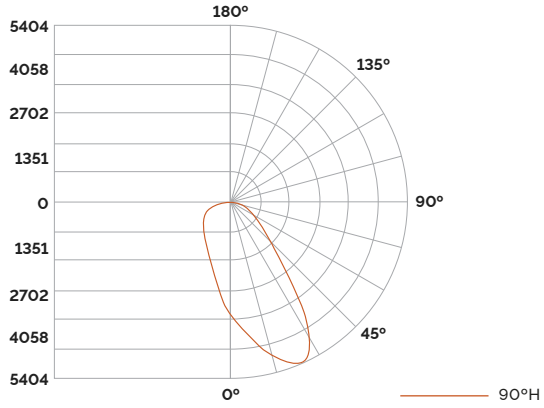
Luminance Data (cd/sq.m)

Angles	Avg. 0°	Avg. 45°	Avg. 90°
45°	10,149	13,009	14,522
55°	9,349	12,588	13,771
65°	8,460	11,631	12,333
75°	7,128	9,857	10,097
85°	4,894	6,673	6,869

Candela Table

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2698	2698	2698	2698	2698
5	2668	2662	2682	2719	2757
10	2626	2625	2669	2730	2780
15	2541	2554	2649	2741	2802
20	2425	2461	2602	2729	2801
25	2281	2342	2535	2696	2769
30	2115	2204	2442	2615	2698
35	1933	2044	2317	2503	2587
40	1743	1867	2164	2350	2423
45	1548	1679	1984	2157	2215
50	1354	1477	1781	1931	1973
55	1157	1272	1558	1680	1704
60	966	1057	1313	1408	1416
65	771	841	1060	1130	1124
70	577	630	800	846	836
75	398	427	550	575	564
80	228	244	317	330	324
85	92	94	125	131	129
90	0	0	0	0	0

BEAMD-8-1000-WW-35K-80



Luminance Data (cd/sq.m)

Angles	Avg. 0°	Avg. 45°	Avg. 90°
45°	5,250	10,930	11,206
55°	3,258	6,363	9,613
65°	2,098	3,674	7,896
75°	1,078	1,854	5,864
85°	235	387	2,659

Candela Table

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	3379	3379	3379	3379	3379
5	3913	3894	3703	3487	3278
10	4475	4392	4035	3615	3211
15	4991	4840	4383	3731	3100
20	5306	5105	4614	3826	2939
25	5392	5177	4708	3849	2742
30	4632	4647	4675	3767	2518
35	3262	3510	4350	3597	2277
40	2192	2449	3696	3361	2034
45	1602	1748	2889	3042	1771
50	1232	1317	2169	2651	1511
55	979	1021	1612	2209	1251
60	784	797	1183	1763	1004
65	602	606	861	1326	776
70	438	434	605	933	563
75	285	277	387	599	372
80	150	145	208	319	205
85	55	45	68	108	71
90	0	0	0	0	0

Row Configurations

XX (Run Length)

The standard construction of run lengths follows the logic of the table below. Consult factory for additional information. Run lengths always start with the longest fixture and receives the power feed.

NOTE: Fixtures in continuous runs are available in 6" increments. Consult factory for smaller increments.

Total Length (Feet)	# of Sections						
	2	3	4	5	6	7	8
2	1						
3		1					
4			1				
5				1			
6					1		
7						1	
8							1
9			1	1			
10			1		1		
11		1					1
12			1				1
13				1			1
14					1		1
15						1	1
16							2
17			1	1			1
18			1		1		1
19		1					2
20			1				2
21				1			2
22					1		2
23						1	2
24							3
25			1	1			2
26			1		1		2
27		1					3
28			1				3
29				1			3
30					1		3
31						1	3
32							4
33			1	1			3
34			1		1		3
35		1					4
36			1				4
37				1			4
38					1		4
39						1	4
40							5

SXX (Symmetric Run)

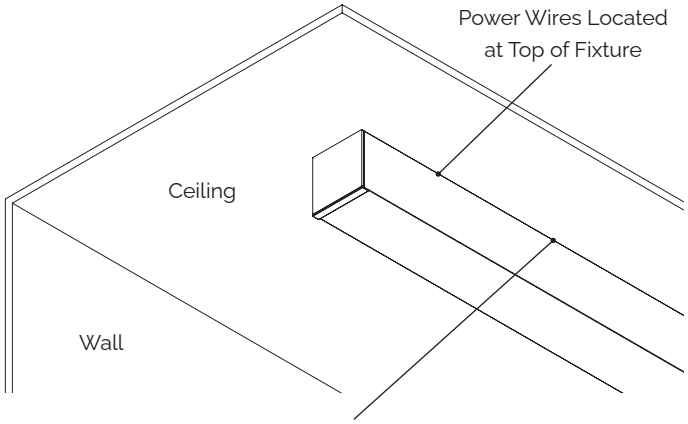
The construction of SXX (y') is to build with equal length fixtures. The xx indicates the run length. The y' indicates the fixture length used to create the run. Please indicate this on your P.O. when placing your order.

S12' (2')	2'	2'	2'	2'	2'	2'
S12' (3')	3'	3'	3'	3'		
S12' (4')	4'	4'	4'			
S12' (6')	6'	6'				

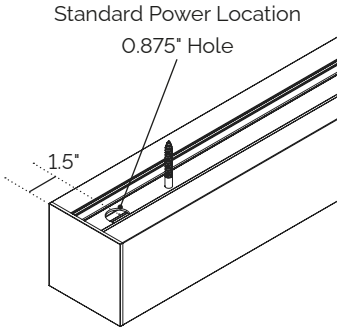
Mounting

SM (Surface Mount)

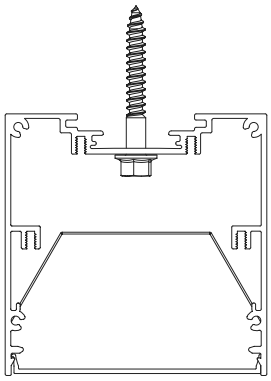
NOTE: If a different configuration or power location is needed to meet an aesthetic requirement, please indicate this when placing your order and contact the factory.



Product is flush with surface, leaving no gap



Fitting provided by others.



NOTE: Use proper mounting hardware (provided by others) to mount fixture to ceiling.

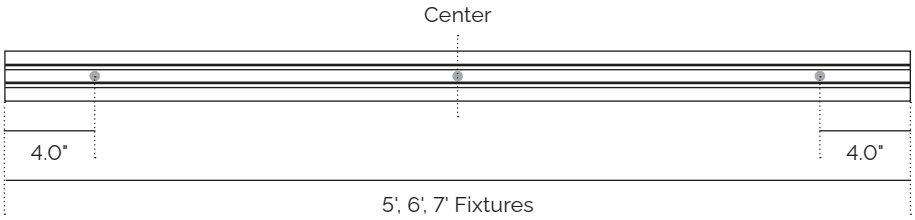
Mounting Locations

Individual Fixtures

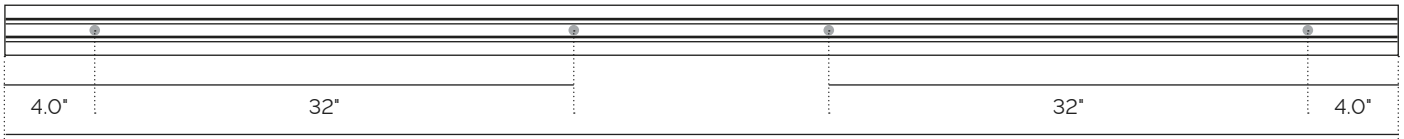
Mounting locations (●) will vary dependent on fixture length. See below for individual fixtures and runs showing the top of fixtures.



2', 3', 4' Fixtures



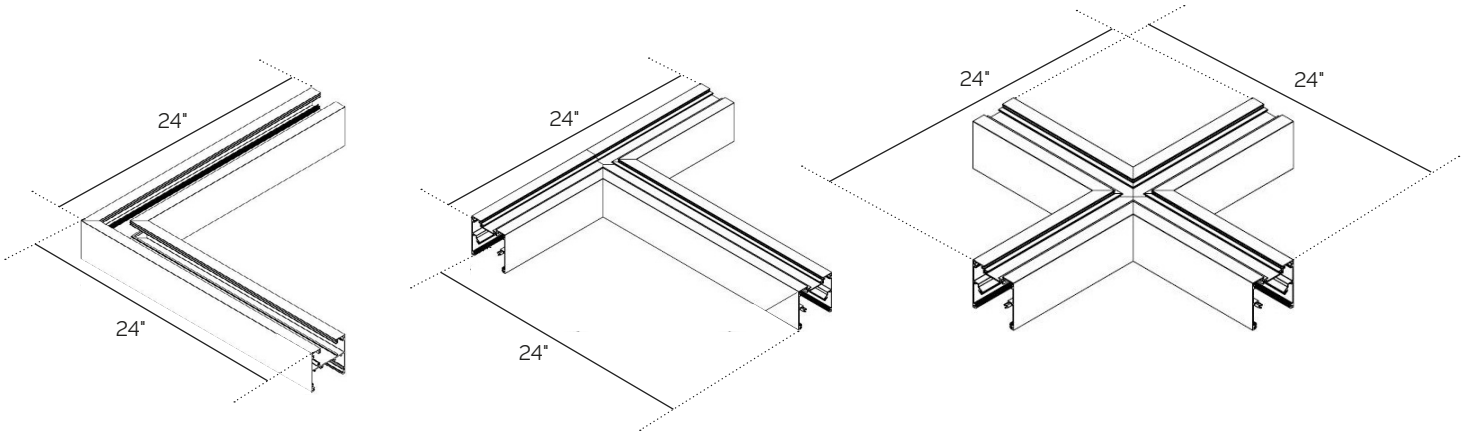
5', 6', 7' Fixtures



8' Fixtures

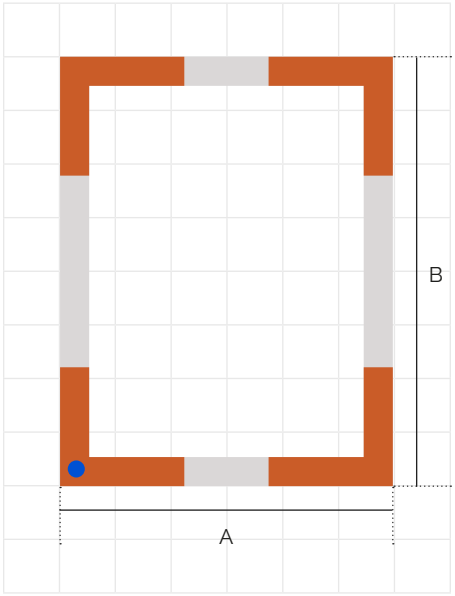
Shape Configuration

Example: Standard 24" x 24" joint configurations are provided as as a single piece as shown below.



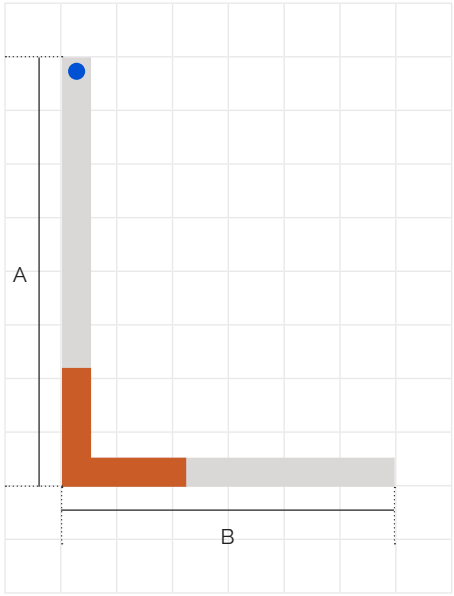
Rectangle (_X_RECT)

Provide AxB dimensions



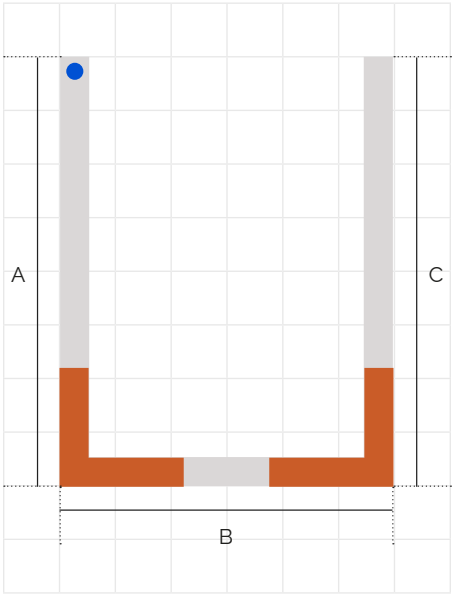
L-Shape (_X_L)

Provide AxB dimensions



U-Shape (_X_X_U)

Provide AxBxC dimensions

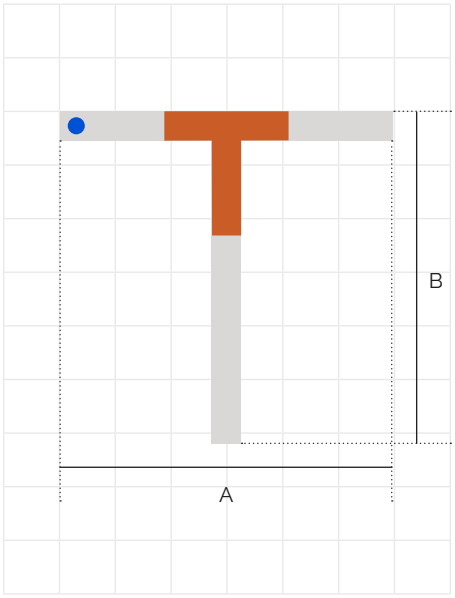


● Power Location

Shape Configuration

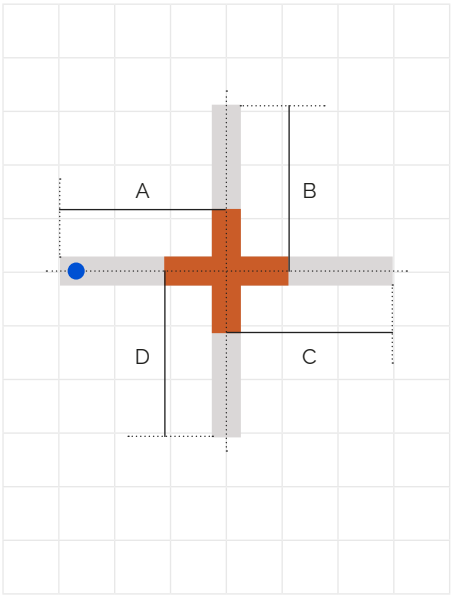
T-Shape (_X_T)

Provide AxB dimensions



X-Shape (_X_X_X_X)

Provide AxBxCxD dimensions

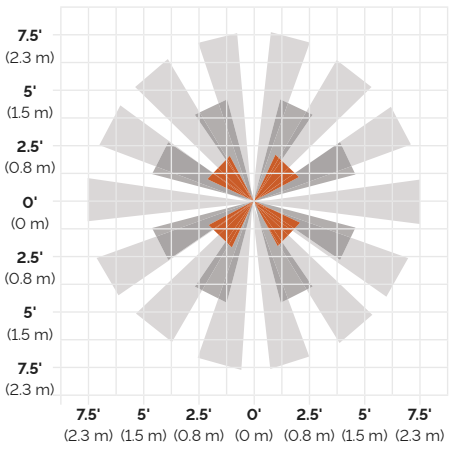


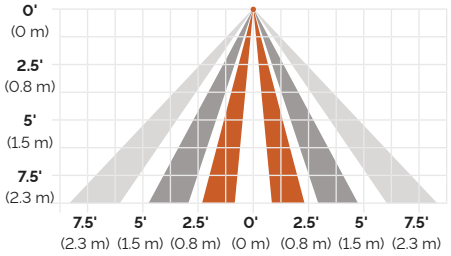
● Power Location

Controls

Sensor

Wattstopper FS-205 v2 Low Voltage PIR. Integrated photosensor for hold-off daylighting control. 24VDC operating voltage. Adjustable time delay (30 seconds to 30 minutes).







Wireless Node

