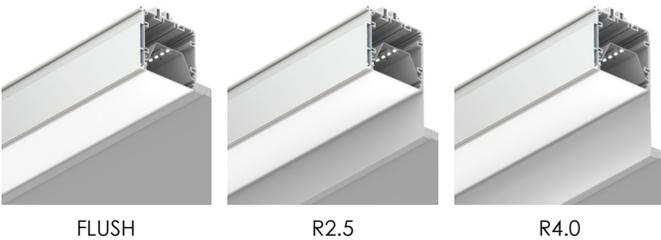


Type:	
Project:	
REP/Agent:	
Order #:	

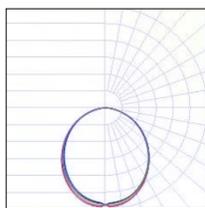
# PERIMETER BEAM



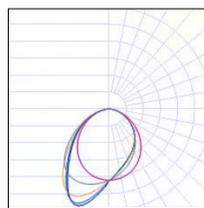
## SHIELDING



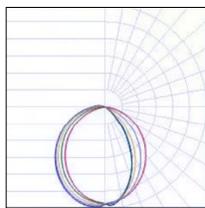
## DISTRIBUTION



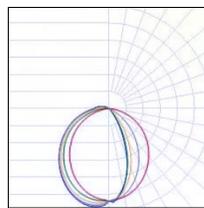
Lens: SD  
Shielding: FL



Lens: FRF  
Shielding: FL



Lens: SD  
Shielding: R2.5

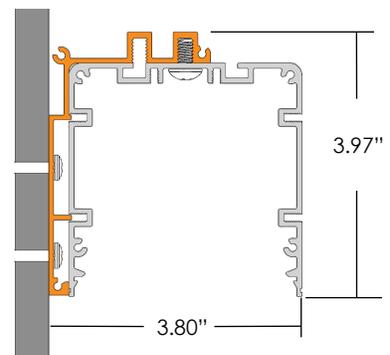


Lens: SD  
Shielding: R4.0

## FEATURES

- ★ Continuous lensing - runs up to 100'
- ★ Standard 2', 4', 6' and 8' units or continuous rows
- ★ Fixture/run length increments down to 1/16"
- ★ Field Fit allows for field adjustment to overall run length
- ★ Single piece aluminum extrusion housing
- ★ Linear runs with proprietary joiner design
- ★ Snap-in lens and reflector for easy installation
- ★ 3 Step MacAdam ellipse binning
- ★ Efficacy up to 116 lm/W
- ★ Soft diffuse direct lighting
- ★ Approved for dry and damp locations
- ★ 0-10v dimming is standard
- ★ Dim to 1% of output current is standard
- ★ 90 CRI (R9 50min) available
- ★ JA8 installation compatible
- ★ IC Rated

## DIMENSIONS



Type:	
Project:	
REP/Agent:	
Order #:	

# PERIMETER BEAM

PBEAM					
SERIES	LENGTH	LUMENS PER FOOT	DISTRIBUTION	CCT	CRI
<b>PBEAM</b>	<b>LINEAR</b> <b>XX</b> = Run Length <b>XX(FF3)</b> = Run Length w/ Field Fit (+/- 3") <b>XX(FF6)</b> = Run Length w/ Field Fit (+/- 6")  <b>SHAPES</b> _ <b>x</b> _ <b>L</b> = L-shape _ <b>x</b> _ <b>x</b> _ <b>U</b> = U-shape _ <b>x</b> _ <b>RECT</b> = Rectangle Add <b>(FF3)</b> after each length for Field Fit (+/- 3") Add <b>(FF6)</b> after each length for Field Fit (+/- 6")  <small>x = Inside Corner            Replace x with o to designate Outside Corner            See page 3 for guide on patterns</small>  <b>EXAMPLES</b> <b>15</b> = 15' <b>15(FF3)</b> = 15' with +/- 3" Field Fit <b>18x9L</b> = 18' x 9' L <b>18(FF3)x9L</b> = 18' with +/- 3" Field Fit by 9' L <b>18o9L</b> = 18' by 9' L with Outside Corner	<b>350</b> = 350 LPF <b>500</b> = 500 LPF <b>750</b> = 750 LPF <b>1000</b> = 1000 LPF <b>XXX</b> = Custom LPF	<b>SD</b> = SatinIce Diffuse <b>FRF</b> = Flush Asymmetric Room Fill <b>GRZ</b> = Wall Graze	<b>30K</b> = 3000K <b>35K</b> = 3500K <b>40K</b> = 4000K <b>50K</b> = 5000K <b>TW</b> = Tunable white <sup>1</sup> (2700-6500K)	<b>80</b> = 80 <b>90</b> = 90 (R9 50 min)

FINISH	MOUNTING	SHIELDING	VOLTAGE	ELECTRICAL
<b>STANDARD</b> <b>PW</b> = Powder Coat White <b>PB</b> = Powder Coat Black	<b>T-GRID</b> <b>TBX</b> = 9/16" Grid 15/16" Grid 9/16" Screw Slotted T-Grid 15/16" Prelude <b>TEG15</b> = 15/16" Grid (Tegular Tile) <b>TEG9</b> = 9/16" Grid (Tegular Tile) <b>TBO</b> = T-BAR Other (Specify Type of T-BAR)	<b>FL</b> = Flush <b>R2.5</b> = 2.5" Regress <b>R4.0</b> = 4.0" Regress	<b>U</b> = 120-277 <b>C</b> = 347	<b>1C</b> = Single Circuit <b>MC</b> = Multiple Circuits (multiple switch legs across run length) <b>EC</b> = Emergency Circuit (separate powder drops for EC fixtures) <b>GTD</b> = Generator Transfer Device
<b>PREMIUM</b> <b>RALxxxx</b> = Powder Coat RAL xxxx (gloss finish)				
<b>CUSTOM</b> <b>PO</b> = Powder other	<b>COSMETIC BEZEL</b> <b>CB</b> = Cosmetic Bezel <b>SPACKLE FLANGE</b> <b>SF</b> = Spackle Flange <b>TRIMLESS</b> <b>TR</b> = Trimless Drywall			

## OPTIONS

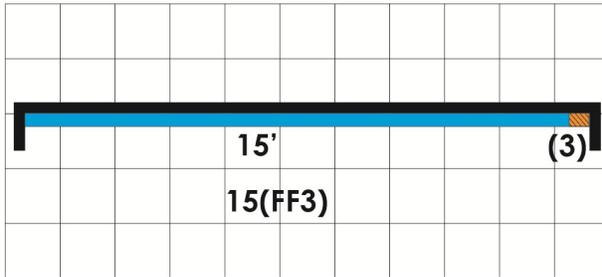
<b>SPECIALITY DRIVERS (standard driver is 0-10V, dim to 1% output current)</b> <b>DT1</b> = eldoLED EcoDrive Dim to 1% (0-10V) <b>DTZ</b> = eldoLED EcoDrive Dim to 0.1% (0-10V) <b>PSRD</b> = Phillips Sensor Ready (DALI) Driver <b>LDE1</b> = Lutron Hi-Lume EcoSystem LED driver w/ Soft-on, Fade-to-Black <b>TW-A</b> = Tunable White, 0-10v <sup>2</sup> <b>TW-EL</b> = eldoLED DUALdrive Tunable White (DALI) <sup>2</sup> <b>LD2</b> =Lutron DALI 2 Digital Tunable White driver with 1% dimming <sup>2</sup> <b>HD-xx</b> = HyperDrive Circuit Remote Driver (Consult Factory)	<b>REMOTE MOUNTED SENSORS</b> <b>DMxx%</b> = Daylight/Motion Sensor (xx%= % Min. Dimming) <b>NLA</b> = Acuity nLight Air <b>WVL</b> = Cooper Wavelinx
<b>BATTERIES ("#" indicates quantity)</b> <b>#EMB6</b> = 6W EM Battery (Iota/Bodine) <b>#EMB10</b> = 10W EM Battery (Iota/Bodine) <b>#FCEMB10</b> = 10W EM Battery (Factory Choice) <b>#FCEMB14</b> = 14W EM Battery (Factory Choice)	<b>OTHER</b> <b>CP</b> = Chicago Plenum (CCEA) <b>CFW</b> = Conduit Flex Whip

EXAMPLE: PBEAM-20(FF3)-750-SD-40K-80-PW-TR-FL-U-1C-1EMB10

<sup>1</sup> Tunable White Driver must be specified in options  
<sup>2</sup> 50 Watt Max. Dual driver required for higher fixture wattage  
<sup>3</sup> Emergency battery option not available with 2' fixtures

## #1 Example Ordering Code

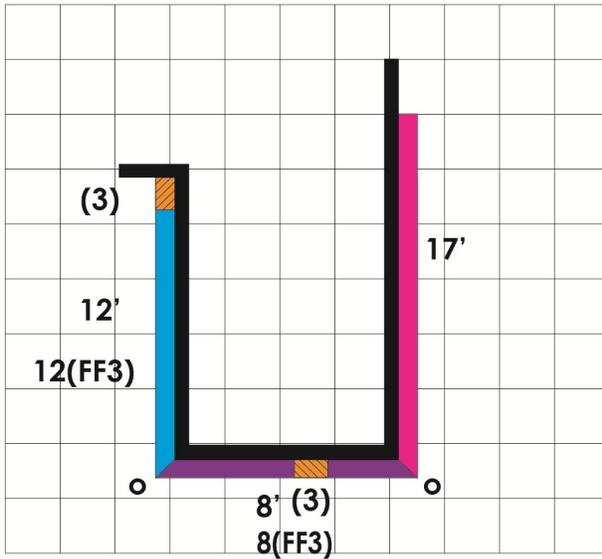
15(FF3)



-  Wall
-  +/- 3" Field Fit
-  +/- 6" Field Fit

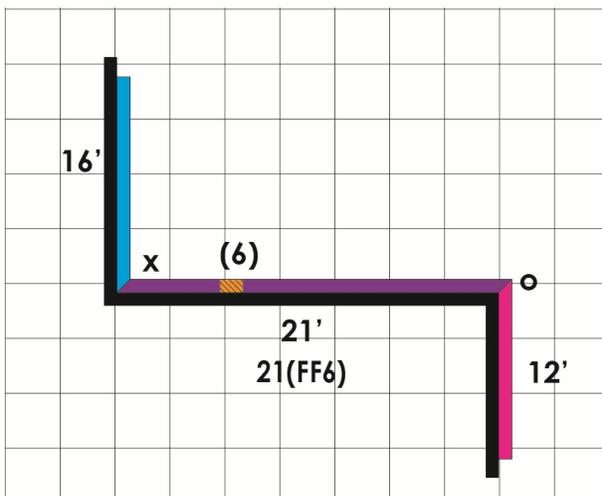
## #2 Example Ordering Code

12(FF3)○8(FF3)○17U



## #3 Example Ordering Code

16x21(FF6)○12



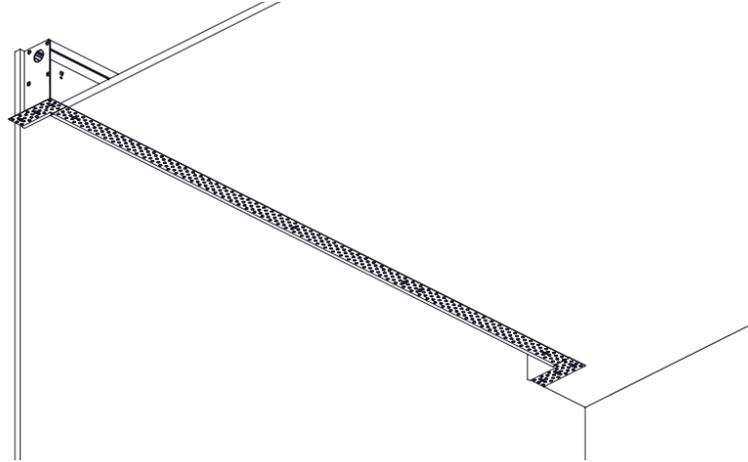


# PERIMETER BEAM

## HOUSING OPTIONS

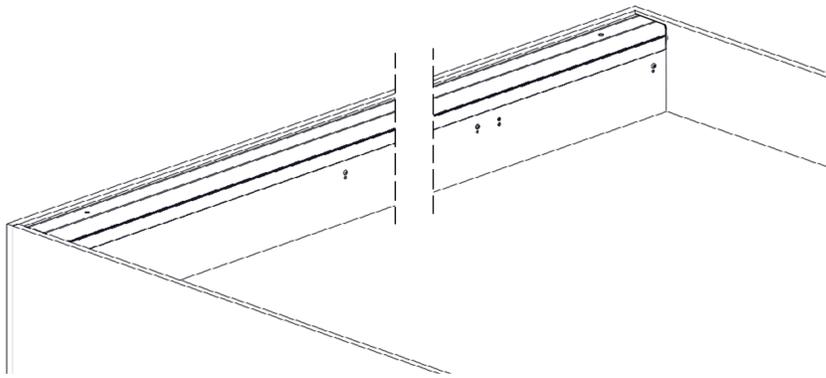
### XX = Run Length

Ordered fixture length is equal to the length of extrusion. The total fixture length is length of extrusion plus the endcaps. Example: 96" (ordered length) + .125" + .125" = 96.25" total length of assembled fixture. Not recommended for wall-to-wall applications

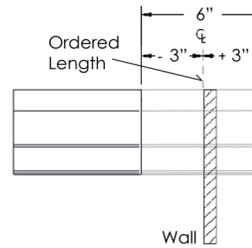


### XX(FF\_) = Run Length with Field Fit

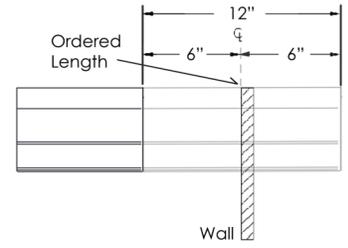
This option allows for flexibility in wall-to-wall perimeter applications. When ordered, the total run length allows for ± 3.0" or ± 6.0". Housing must be cut in the field with a miter saw based on required dimensions. See images below for details on linear vs. shape configs.



#### FF3 = 3" Field Fit

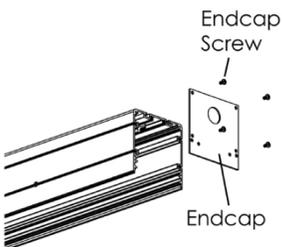


#### FF6 = 6" Field Fit

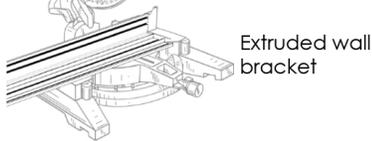


## Cutting Detail

**Step 1.**  
Remove the endcap before cutting the back extrusion.

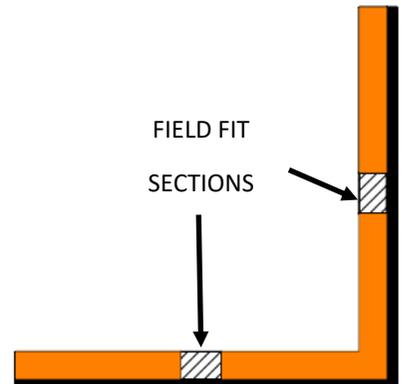
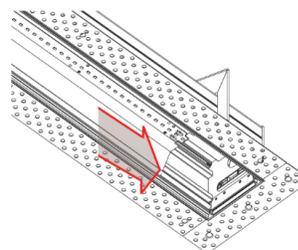


**Step 2.**  
Cut back extrusion and extruded wall bracket. Cut all trim accordingly.



**Back Housing**  
Recommended to fill extrusion with scrap wood for cleaner cut

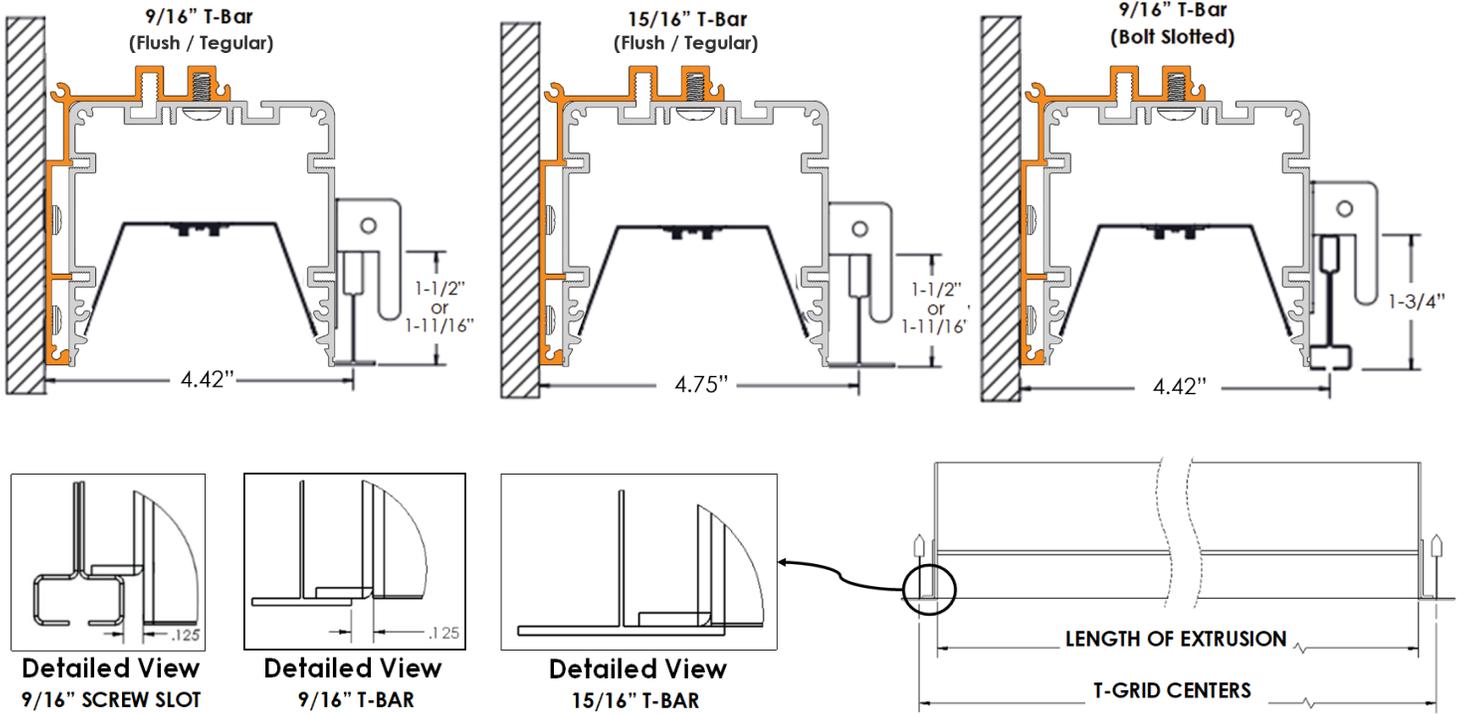
**Step 3.**  
Reinstall endcap. Reinstall telescoping lighting assembly and slide to the end. Filling the entire length with LEDs.



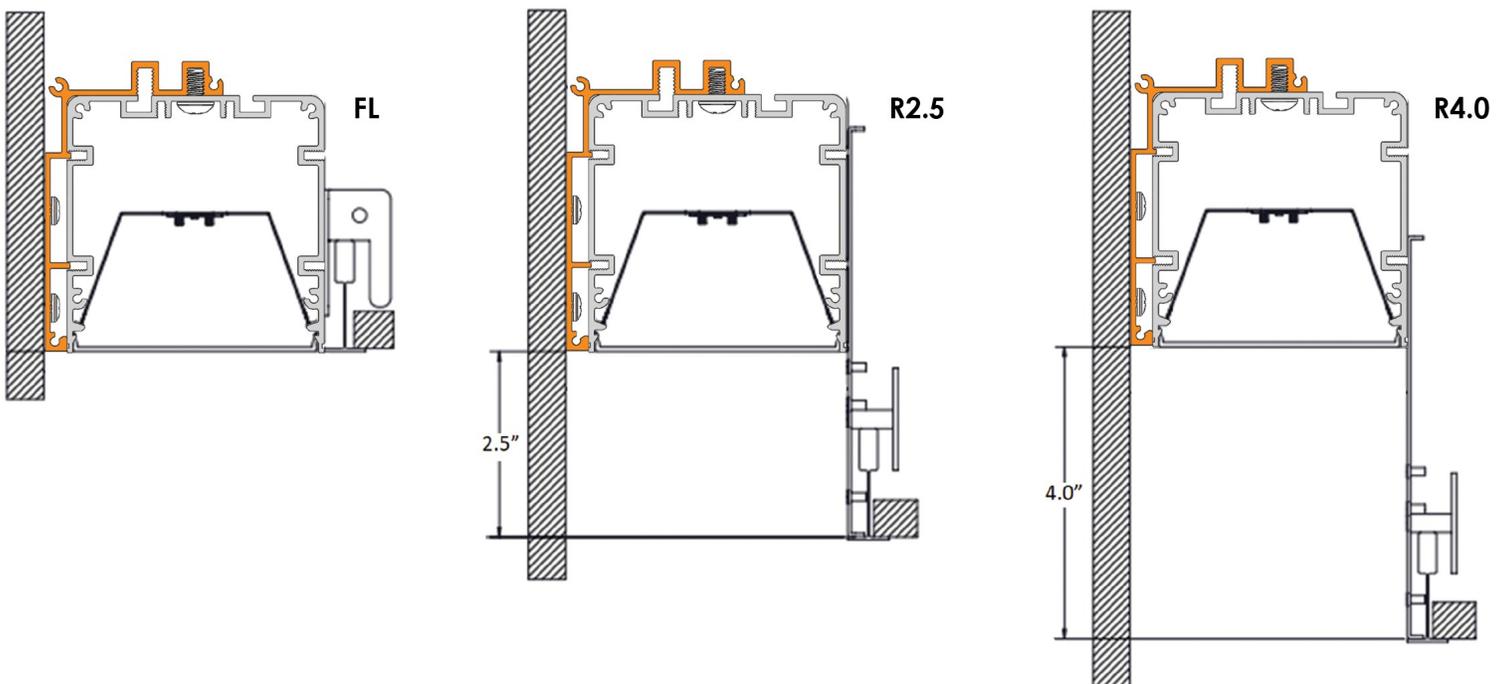
# PERIMETER BEAM

## MOUNTING OPTIONS

### TBX - T-Grid



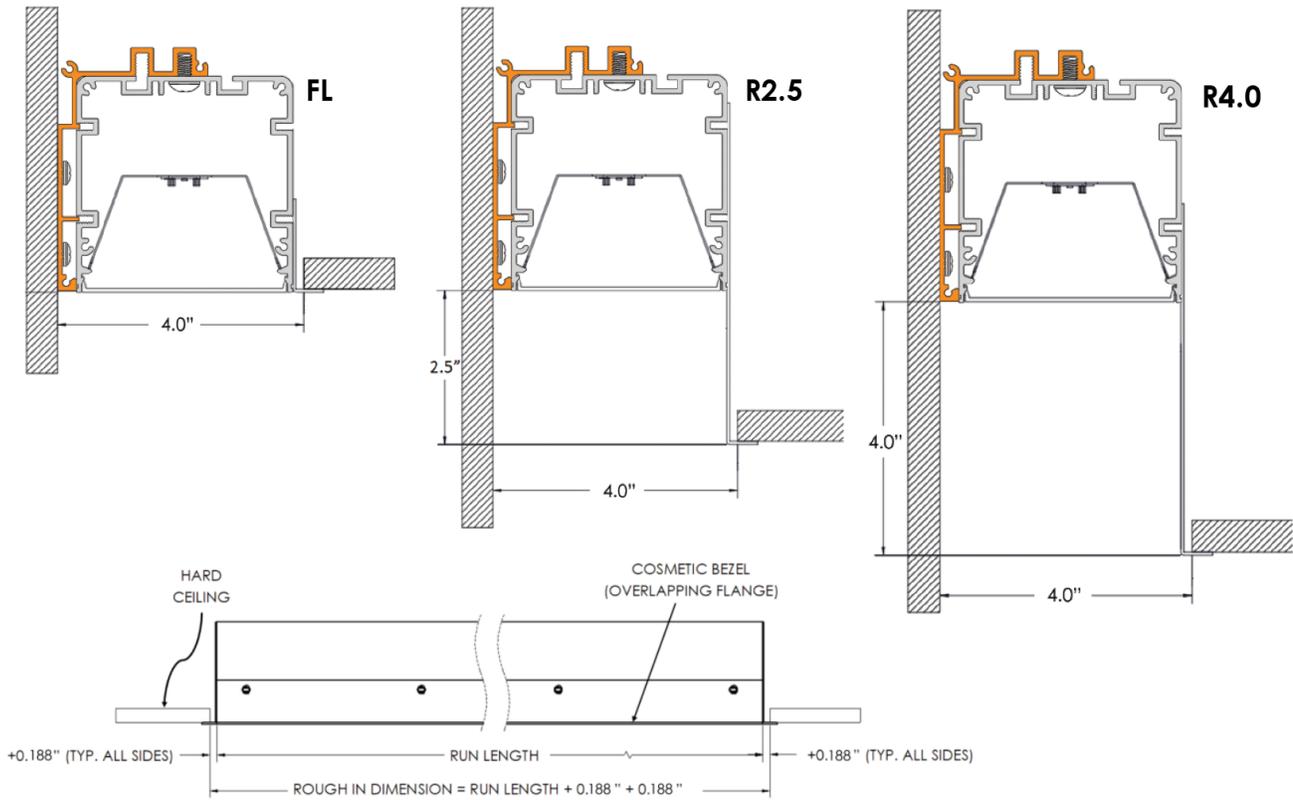
## T-Grid **TBX** Sheilding Details



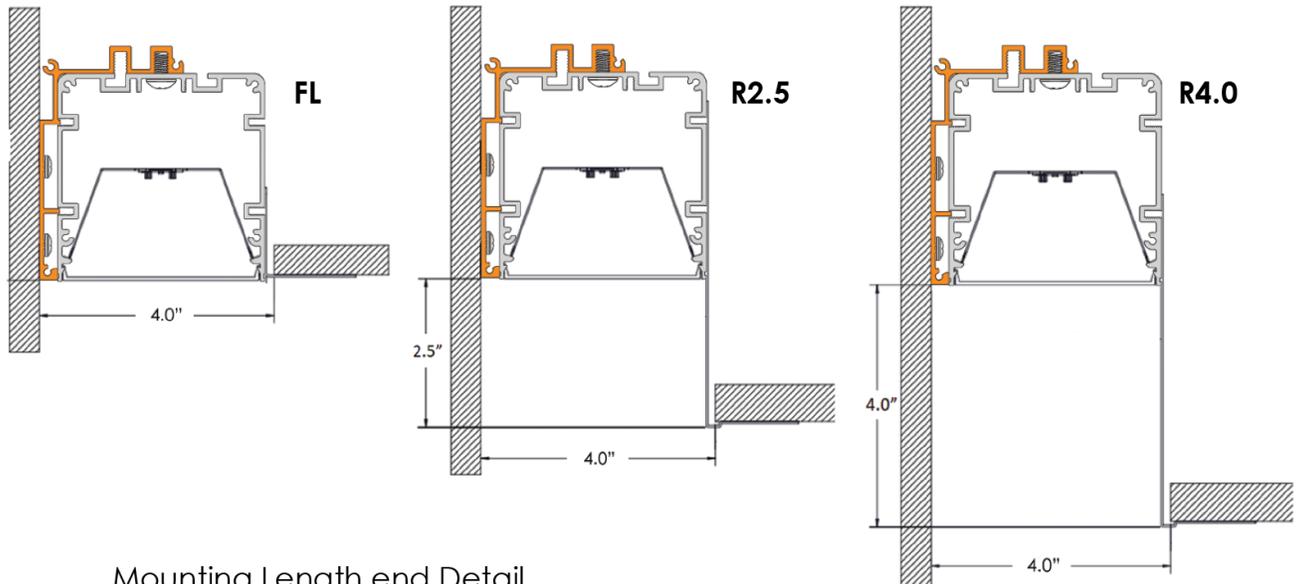
# PERIMETER BEAM

## MOUNTING OPTIONS

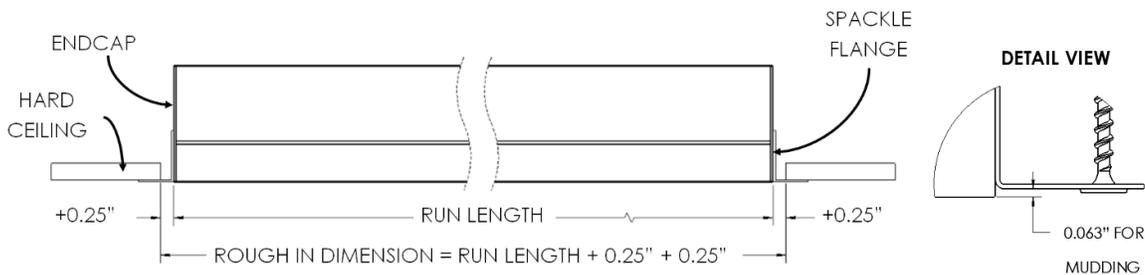
### CB - Cosmetic Bezel



### SF - Spackle Flange



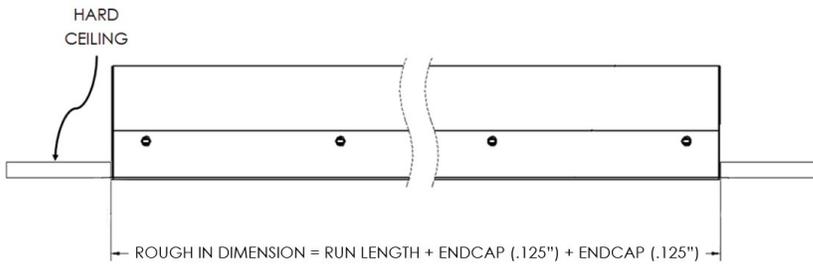
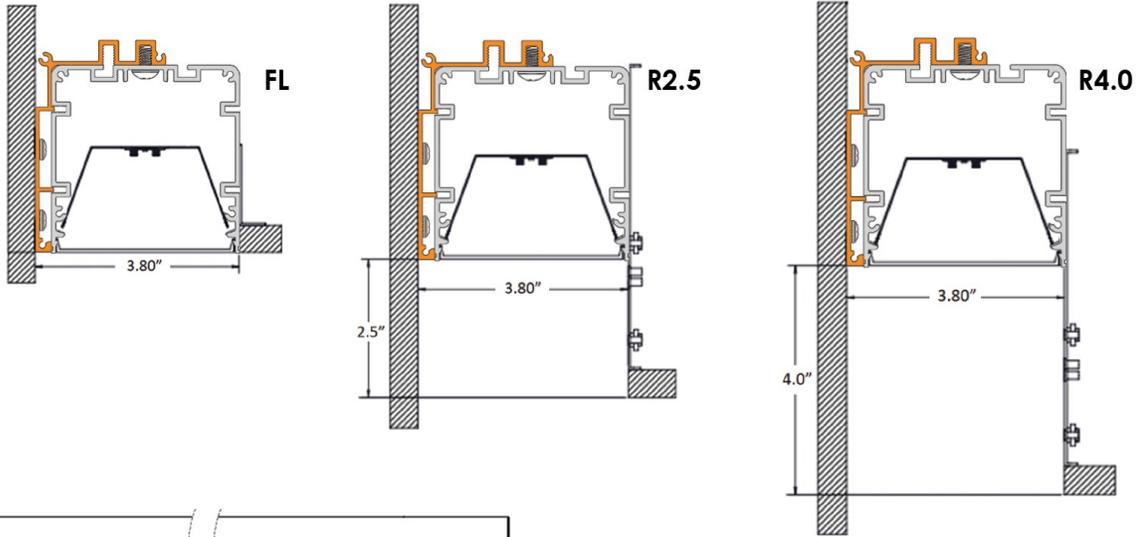
Mounting Length end Detail



# PERIMETER BEAM

## MOUNTING OPTIONS

### TR - Trimless



**!** Note: Luminaires must be installed prior to ceiling drywall.

## ROW CONFIGURATIONS

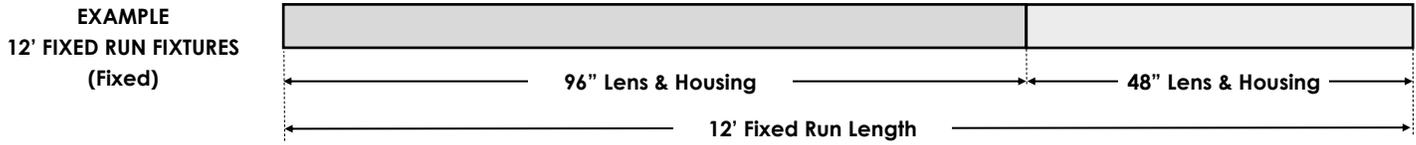
### xx (Run Length)

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.

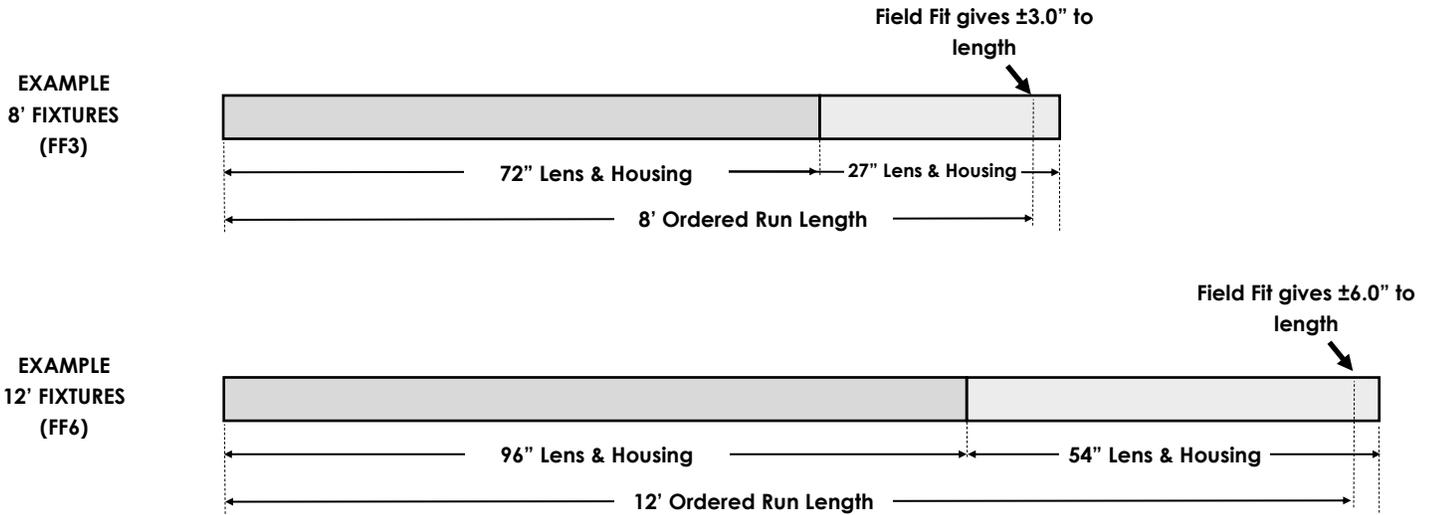
		Total Length																																											
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
# of Sections	2	1																																											
	3		1								1							1																											
	4			1					1	1		1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

## Fixed Run Length



## Adjustable Run Length

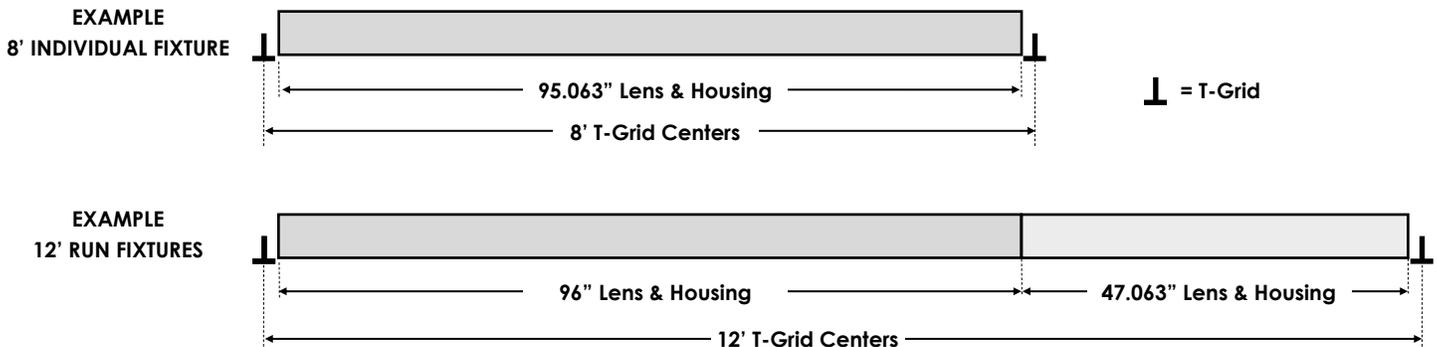
Adjustment total depends on ordered Field Fit section. The end fixture can be cut back to match onsite requirements.



## Individual & Continuous Run—T-Grid

The lengths of individual fixtures and run lengths specified in the ordering logic is the distance between the centers of the T-Grids (See Page 4). The actual length of the fixtures and the lens will be shorter from that specified length. In a run, the last fixture compensates for the T-Grid. If a different configuration is needed to meet an aesthetic requirement, please indicate this on your P.O. when placing your order.

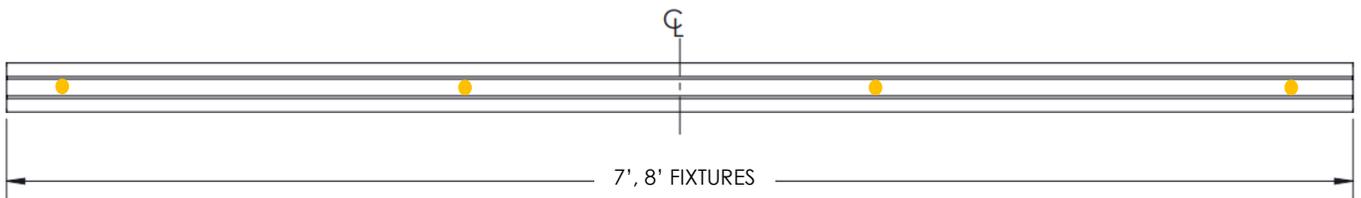
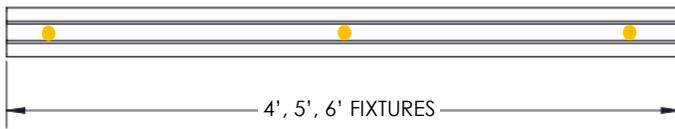
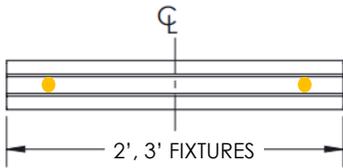
Examples of the standard construction of T-Grid configurations are as follows:



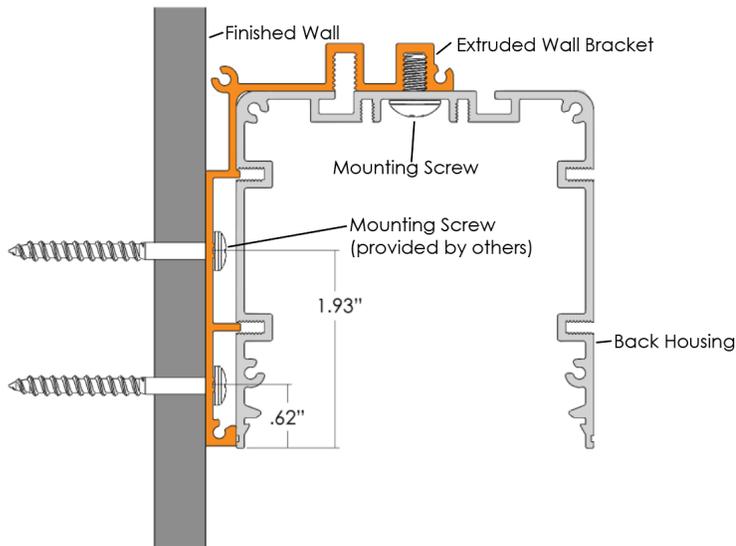
# PERIMETER BEAM

## MOUNTING LOCATIONS

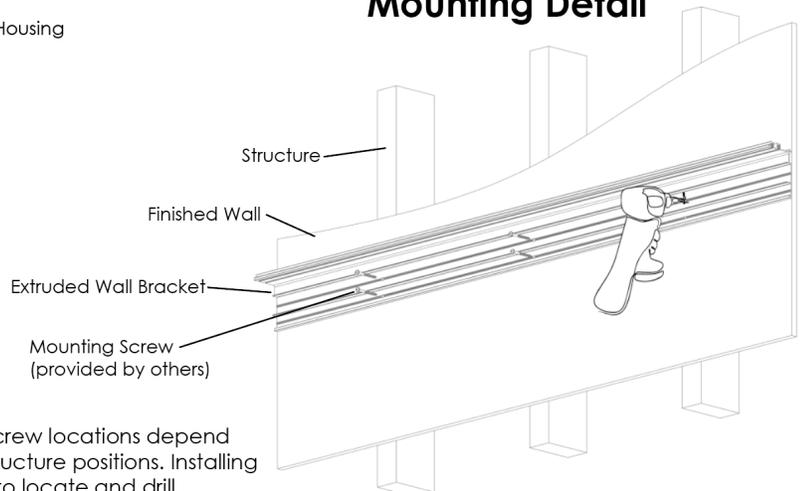
Number of mounting locations (●) vary based on fixture length. Views below show top of fixtures and example placement of provided mounting brackets. These brackets can be slid along the length of the fixture as necessary as long as the correct number of mounts are used.



## Extruded Wall Bracket Detail



## Extruded Wall Bracket Mounting Detail

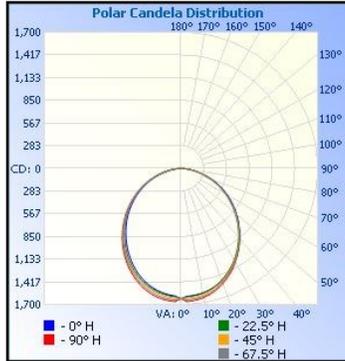


Mounting screw locations depend on onsite structure positions. Installing contractor to locate and drill mounting holes. Show without ceiling structure or drywall

# PERIMETER BEAM

## PERFORMANCE

### PBEAM-X-1000-SD-FL (80+ CRI)



#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1244.3	28.4%
0-40	2011.6	46%
0-60	3472.8	79.4%
60-90	901.8	20.6%
70-100	384.3	8.8%
90-120	0	0%
0-90	4374.6	100%
90-180	0	0%
0-180	4374.6	100%

Model	Lumens	Watts	LPW
PBEAM-4-1000-SD-30K-80-FL-U	4000	35	115
PBEAM-4-1000-SD-35K-80-FL-U	4000	34	118
PBEAM-4-1000-SD-40K-80-FL-U	4000	33	121
PBEAM-4-1000-SD-50K-80-FL-U	4000	32	126

Model	Lumens	Watts	LPW
PBEAM-8-1000-SD-30K-80-FL-U	8000	67	119
PBEAM-8-1000-SD-35K-80-FL-U	8000	65	122
PBEAM-8-1000-SD-40K-80-FL-U	8000	64	125
PBEAM-8-1000-SD-50K-80-FL-U	8000	62	130

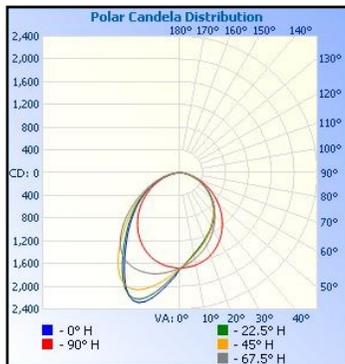
#### Luminance Data (cd/sg.m)

Angle in Degrees	Average 0-DEG	Average 45-Deg	Average 90-Deg
45	13876	13721	13842
55	13215	12883	13000
65	12418	11848	12025
75	10892	10380	10677
85	8813	8108	8857

#### Candela Distribution

	0	22.5	45	67.5	90
0	1626	1626	1626	1626	1626
5	1594	1602	1615	1638	1658
10	1577	1582	1597	1618	1637
15	1543	1543	1557	1576	1592
20	1491	1483	1497	1512	1528
25	1422	1409	1422	1434	1447
30	1337	1322	1335	1344	1352
35	1239	1225	1237	1242	1249
40	1134	1118	1128	1132	1137
45	1022	1003	1010	1014	1019
50	908	885	892	895	900
55	789	766	770	773	777
60	669	644	646	648	653
65	547	520	522	524	529
70	420	396	398	403	406
75	294	274	280	284	288
80	177	161	170	176	178
85	80	67	74	78	80
90	0	0	0	0	0

### PBEAM-X-1000-SD-FRF-FL (80+ CRI)



#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1404.8	30.4%
0-40	2268.8	49.1%
0-60	3791.5	82.1%
60-90	825.6	17.9%
70-100	335.7	7.3%
90-120	0	0%
0-90	4617.1	100%
90-180	0	0
0-180	4617.1	100%

Model	Lumens	Watts	LPW
PBEAM-4-1000-FRF-30K-80-FL-U	4000	33	123
PBEAM-4-1000-FRF-35K-80-FL-U	4000	32	126
PBEAM-4-1000-FRF-40K-80-FL-U	4000	31	129
PBEAM-4-1000-FRF-50K-80-FL-U	4000	30	134

Model	Lumens	Watts	LPW
PBEAM-8-1000-FRF-30K-80-FL-U	8000	63	127
PBEAM-8-1000-FRF-35K-80-FL-U	8000	62	130
PBEAM-8-1000-FRF-40K-80-FL-U	8000	60	133
PBEAM-8-1000-FRF-50K-80-FL-U	8000	58	138

#### Luminance Data (cd/sg.m)

Angle in Degrees	Average 0-DEG	Average 45-Deg	Average 90-Deg
45	11865	11486	14482
55	10987	10642	13102
65	9731	9535	11361
75	8083	8029	9145
85	5987	5598	6204

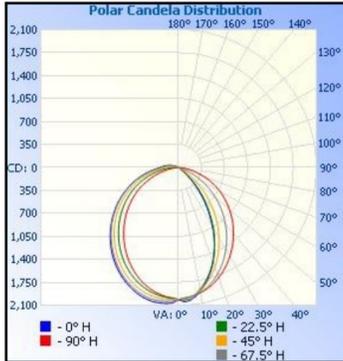
#### Candela Distribution

	0	22.5	45	67.5	90
0	1692	1692	1692	1692	1692
5	1568	1561	1575	1609	1668
10	1452	1446	1471	1533	1647
15	1353	1347	1374	1452	1609
20	1268	1260	1282	1363	1552
25	1185	1175	1192	1266	1474
30	1105	1092	1101	1163	1382
35	1025	1005	1009	1058	1275
40	935	916	914	950	1156
45	843	821	816	841	1028
50	740	720	716	732	894
55	633	616	613	624	755
60	524	508	510	516	617
65	413	401	405	410	482
70	308	299	304	307	355
75	210	202	209	209	238
80	124	117	121	122	135
85	52	46	49	49	54
90	0	0	0	0	0

# PERIMETER BEAM

## PERFORMANCE

### PBEAM-X-1000-SD-R2.5 (80+ CRI)



#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1471.3	30.9%
0-40	2303.6	48.4%
0-60	3717.6	78.1%
60-90	923.6	19.4%
70-100	529.4	11.1%
90-120	119.0	2.5%
0-90	4641.2	97.5%
90-180	119.1	2.5%
0-180	4760.4	100%

Model	Lumens	Watts	LPW
PBEAM-4-1000-SD-30K-80-R2.5-U	4000	37	107
PBEAM-4-1000-SD-35K-80-R2.5-U	4000	35	114
PBEAM-4-1000-SD-40K-80-R2.5-U	4000	34	116
PBEAM-4-1000-SD-50K-80-R2.5-U	4000	34	118

Model	Lumens	Watts	LPW
PBEAM-8-1000-SD-30K-80-R2.5-U	8000	72	111
PBEAM-8-1000-SD-35K-80-R2.5-U	8000	68	118
PBEAM-8-1000-SD-40K-80-R2.5-U	8000	67	120
PBEAM-8-1000-SD-50K-80-R2.5-U	8000	66	122

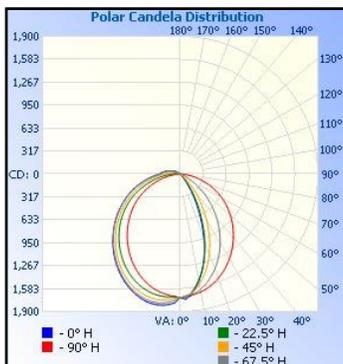
#### Luminance Data (cd/sg.m)

Angle in Degrees	Average 0-DEG	Average 45-Deg	Average 90-Deg
45	4024	7751	15263
55	0	3468	14153
65	0	0	12658
75	0	0	10148
85	0	0	5384

#### Candela Distribution

	0	22.5	45	67.5	90
0	2011	2011	2011	2011	2011
5	2032	2000	1986	1977	1980
10	1913	1885	1905	1933	1938
15	1745	1725	1776	1848	1873
20	1536	1528	1618	1731	1786
25	1296	1302	1436	1595	1681
30	1034	1058	1234	1442	1565
35	770	808	1022	1278	1437
40	523	569	804	1108	1302
45	307	357	591	933	1164
50	128	175	391	761	1022
55	0	34	215	583	876
60	0	0	70	407	731
65	0	0	0	241	577
70	0	0	0	98	426
75	0	0	0	10	283
80	0	0	0	0	154
85	0	0	0	0	51
90	0	0	0	0	0

### PBEAM-X-1000-SD-R4.0 (80+ CRI)



#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1200.7	30%
0-40	1842.9	46%
0-60	2977.4	74.4%
60-90	868.1	21.7%
70-100	529.7	13.2%
90-120	152.2	3.8%
0-90	3845.5	96%
90-180	158.9	4%
0-180	4004.4	100%

Model	Lumens	Watts	LPW
PBEAM-4-1000-SD-30K-80-R4.0-U	4000	44	91
PBEAM-4-1000-SD-35K-80-R4.0-U	4000	41	97
PBEAM-4-1000-SD-40K-80-R4.0-U	4000	40	100
PBEAM-4-1000-SD-50K-80-R4.0-U	4000	39	102

Model	Lumens	Watts	LPW
PBEAM-8-1000-SD-30K-80-R4.0-U	8000	85	94
PBEAM-8-1000-SD-35K-80-R4.0-U	8000	79	101
PBEAM-8-1000-SD-40K-80-R4.0-U	8000	77	104
PBEAM-8-1000-SD-50K-80-R4.0-U	8000	75	106

#### Luminance Data (cd/sg.m)

Angle in Degrees	Average 0-DEG	Average 45-Deg	Average 90-Deg
45	0	1978	12596
55	0	400	11975
65	0	377	11014
75	0	357	9344
85	0	0	6577

#### Candela Distribution

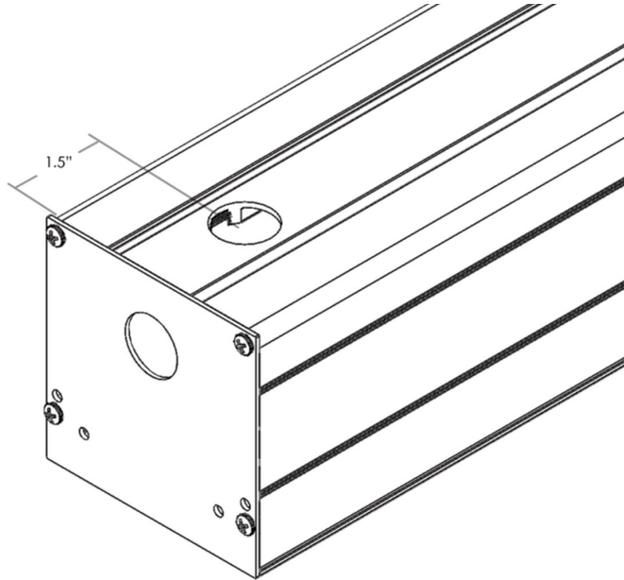
	0	22.5	45	67.5	90
0	1708	1709	1708	1708	1708
5	1680	1655	1664	1674	1674
10	1496	1482	1539	1617	1653
15	1253	1256	1373	1517	1602
20	960	988	1173	1396	1533
25	660	711	952	1255	1451
30	398	454	725	1102	1355
35	191	249	504	940	1251
40	37	87	316	777	1141
45	0	13	161	609	1027
50	0	11	45	445	910
55	0	10	26	294	792
60	0	9	22	164	666
65	0	7	18	63	537
70	0	0	14	40	405
75	0	0	11	27	279
80	0	0	7	16	162
85	0	0	0	8	66
90	0	0	0	0	0

# PERIMETER BEAM

## POWER LOCATION & WIRING DIAGRAMS

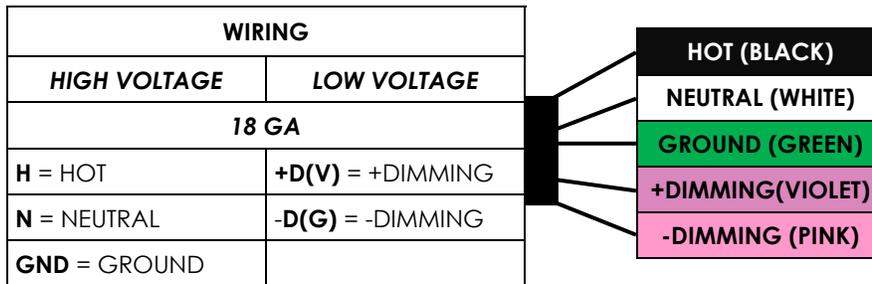
### POWER LOCATION

The standard power location is hole out the top on the fixture. If a different configuration is needed to meet an aesthetic or placement requirement, please consult the factory.

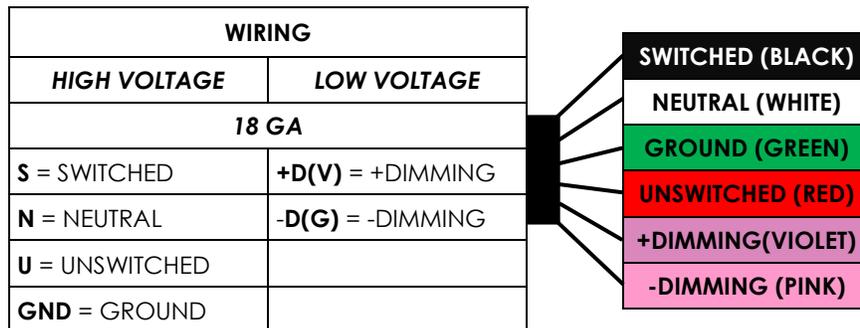


### WIRING DIAGRAMS

Wiring configurations are dependent on the options chosen. Below are a few examples of our standard wiring that is used to power the fixture.



This wiring diagram is showing a standard set of wires for a basic fixture.



This wiring diagram is showing a set of wires for a fixture with an emergency battery.

# PERIMETER BEAM

## SPECIFICATIONS

### Housing

Nominal 3.5" x 3.5" x .075 thick housing of continuous extruded 6063 T5 aluminum.

### Luminaire Length

2', 4', 6' or 8' lengths are available for a single stand-alone section. Using internal joiners, sections can be joined to form longer rows.

### Battery

Lithium ion battery providing up to 720lm(6W) or up to 1200lm(10W) for 90 minutes. UL924 listed. Class 2 compliant. Meets Title 20 CEC (California Energy Commission) efficiency standards.

### Lensing

Snap-in .080" thick acrylic lensing with impact modifier

### Source

Lumen packages are available in four color temperature options (3000K, 3500K, 4000K and 5000K) — all within 3 MacAdam ellipses.

### Certification

Intertek cETLus Listed. RoHS (Restriction of Hazardous Substances) and Buy American Act compliant.

### Environment

Suitable for dry and damp locations.  
Operating temp.: -40°C to +45°C

### Dimming Driver

eldoLED OPTOTRONIC (OTi) series of LED drivers allow tunable output currents to maximize efficiency. UL Class 2 recognized. 0-10v interface can be dimmed down to true 1% dimming. Included 2.5Kw ring and wave overcurrent protection. OTi drivers boast <20% THD, >.9 power factor and 87% efficiency at max load.

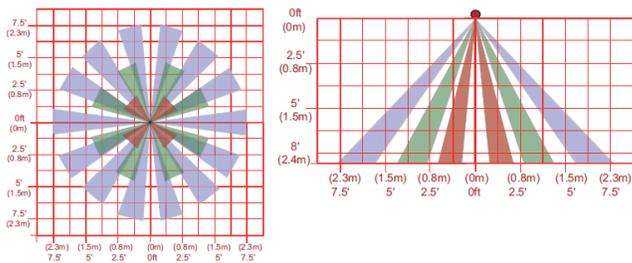
### Packaging

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

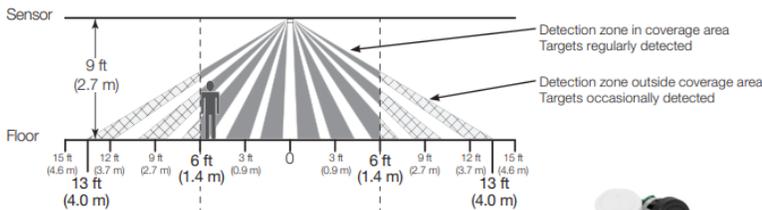
## CONTROL

### 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



## WARRANTY

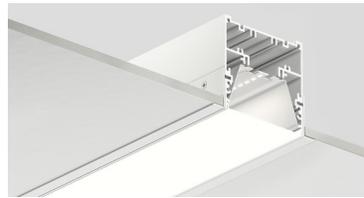
5-year limited warranty. Complete warranty terms can be located at:

[http://www.starteklightingamerica.com/images/pdf/warranty/Beam\\_Series\\_Warranty.pdf](http://www.starteklightingamerica.com/images/pdf/warranty/Beam_Series_Warranty.pdf)

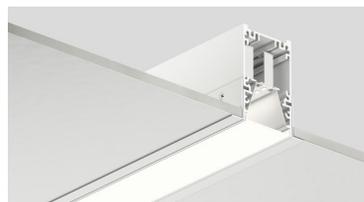
Note: Actual performance may differ as a result of installation environment and final application. All values are design or typical values, measured under laboratory conditions, at 25°C (77°F) .

## COMPANION PRODUCTS

### Recessed Beam



### Recessed Slim Beam



### Perimeter Slim Beam

