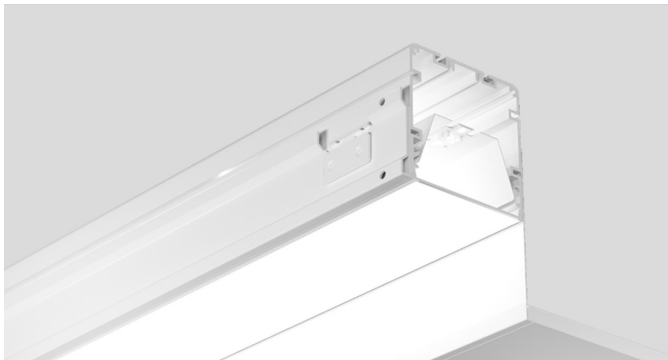
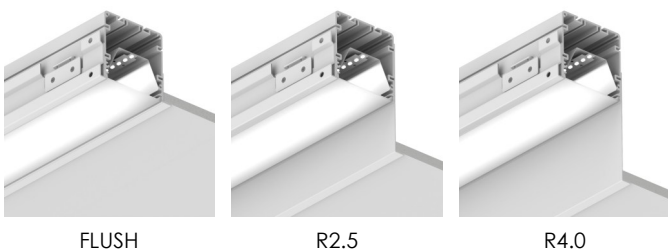


Type:	
Project:	
REP/Agent:	
Order #:	

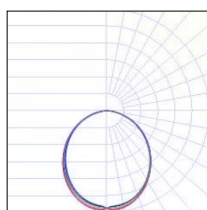
PERIMETER BEAM



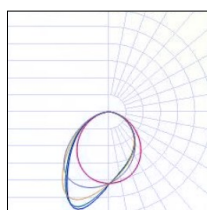
SHIELDING



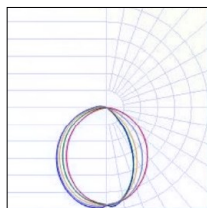
DISTRIBUTION



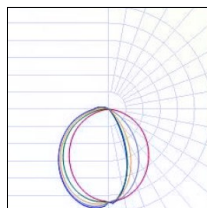
Lens: SD
Shielding: FL



Lens: FRF
Shielding: FL



Lens: SD
Shielding: R2.5

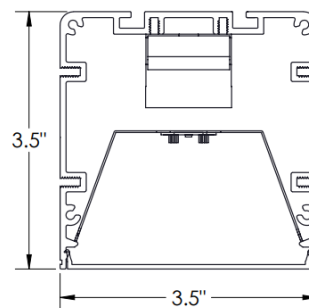


Lens: SD
Shielding: R4.0

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"
- ★ Compatible with wall-to-wall applications (Adjustable)
- ★ Adjustable section allows for ± 2.7 " 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	HOUSING
PBEAM	XX= Run Length _x_RECT= Rectangle _x_L= L-Shape	350= 350 LPF 500= 500 LPF 750= 750 LPF 1000= 1000 LPF XXX= Custom LPF	SD= SatinIce Diffuse FRF= Flush Asymmetric Room Fill GRZ= Wall Graze	30K= 3000K 35K= 3500K 40K= 4000K 50K= 5000K TW= Tunable white ¹ (2700-6500K)	80= 80 90= 90 (R9 50 min)	#A= Adjustable ("#" indicates quantity) <i>(allows for a change of ± 2.7" to overall run length)</i> F= Fixed <i>(not recommended for wall-to-wall installations)</i>

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

OPTIONS

SPECIALITY DRIVERS (standard driver is 0-10V, dim to 1% output current)

DT1= eldoLED EcoDrive Dim to 1% (0-10V)
DTZ= eldoLED EcoDrive Dim to 0.1% (0-10V)
PSRD= Phillips Sensor Ready (DALI) Driver
LDE1= Lutron Hi-Lume EcoSystem LED driver w/ Soft-on, Fade-to-Black
TW-A= Tunable White, 0-10v²
TW-EL= eldoLED DUALdrive Tunable White (DALI)²
LD2= Lutron DALI 2 Digital Tunable White driver with 1% dimming²
RD-xx'-xxxxx= Remote Driver 120V-277V
 Consult Factory

BATTERIES ("#" indicates quantity)

#EMB6= 6W EM Battery (Iota/Bodine)
#EMB10= 10W EM Battery (Iota/Bodine)
#FCEMB10= 10W EM Battery (Factory Choice)
#FCEMB14= 14W EM Battery (Factory Choice)

REMOTE MOUNTED SENSORS

DMxx%= Daylight/Motion Sensor (xx%= % Min. Dimming)
NLA= Acuity nLight Air
WVL= Cooper Wavelinx

OTHER

CP= Chicago Plenum (CCEA)
CFW= Conduit Flex Whip

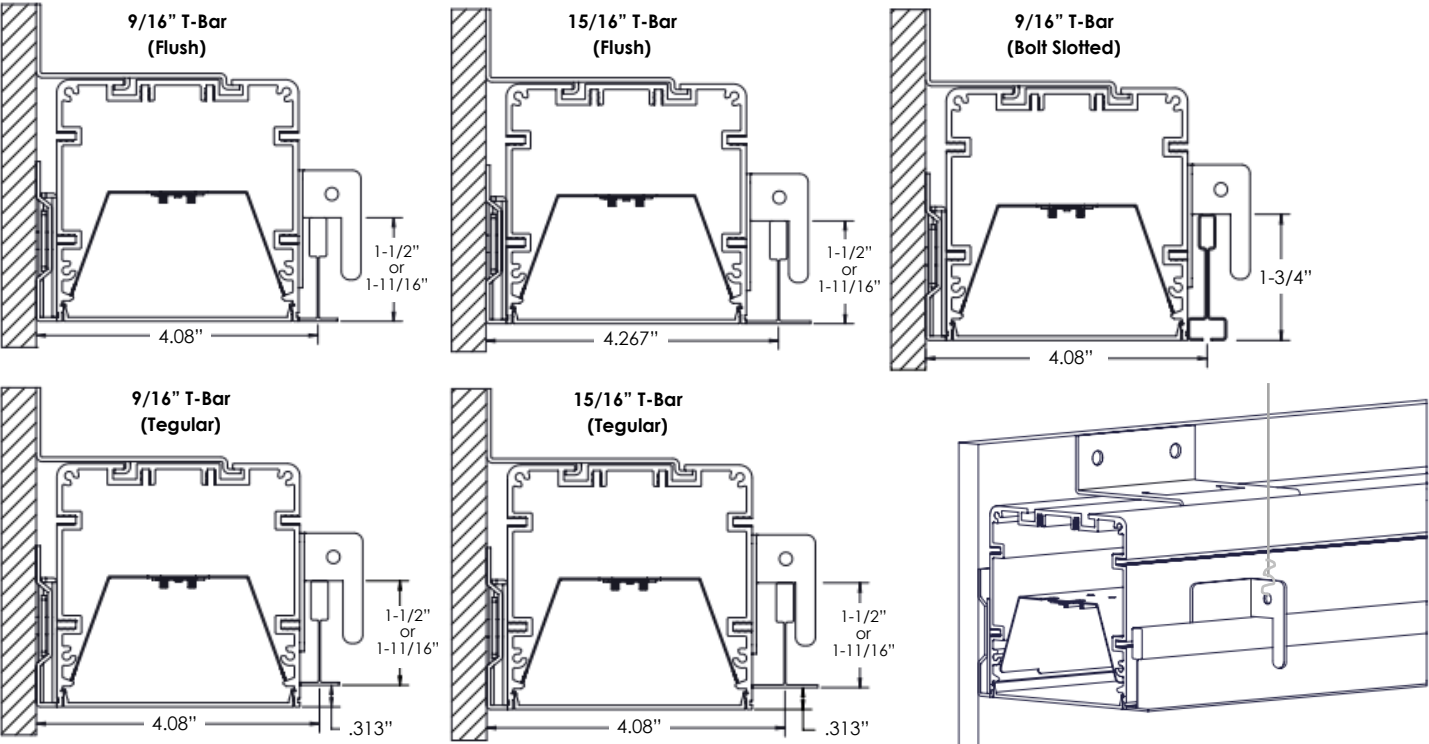
EXAMPLE: PBEAM-20-750-SD-40K-80-1A-PW-TR-FL-U-1C-1EMB10

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

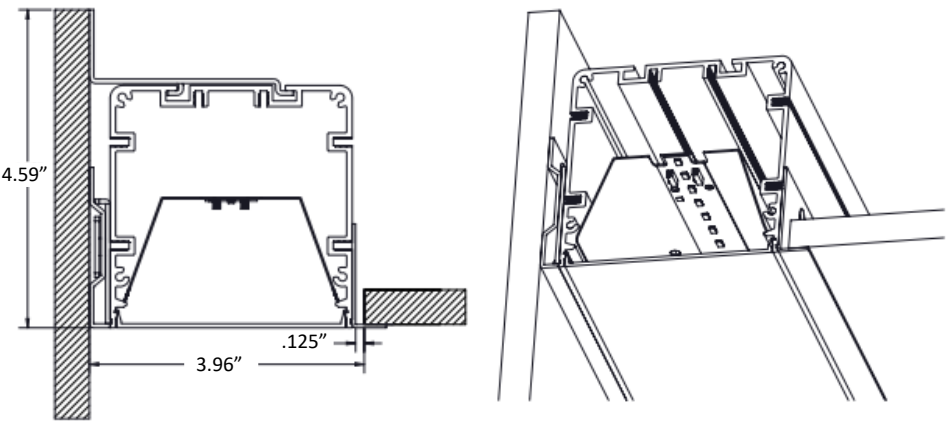
PERIMETER BEAM

MOUNTING OPTIONS

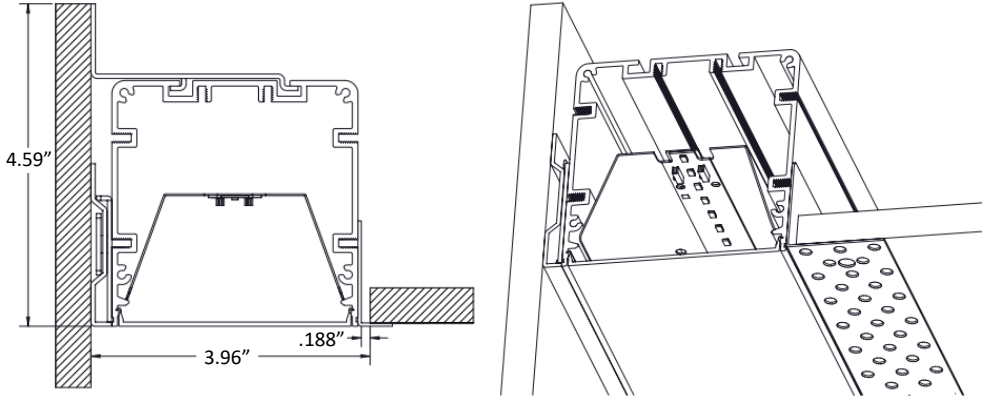
TBX - T-Grid



CB - Cosmetic Bezel

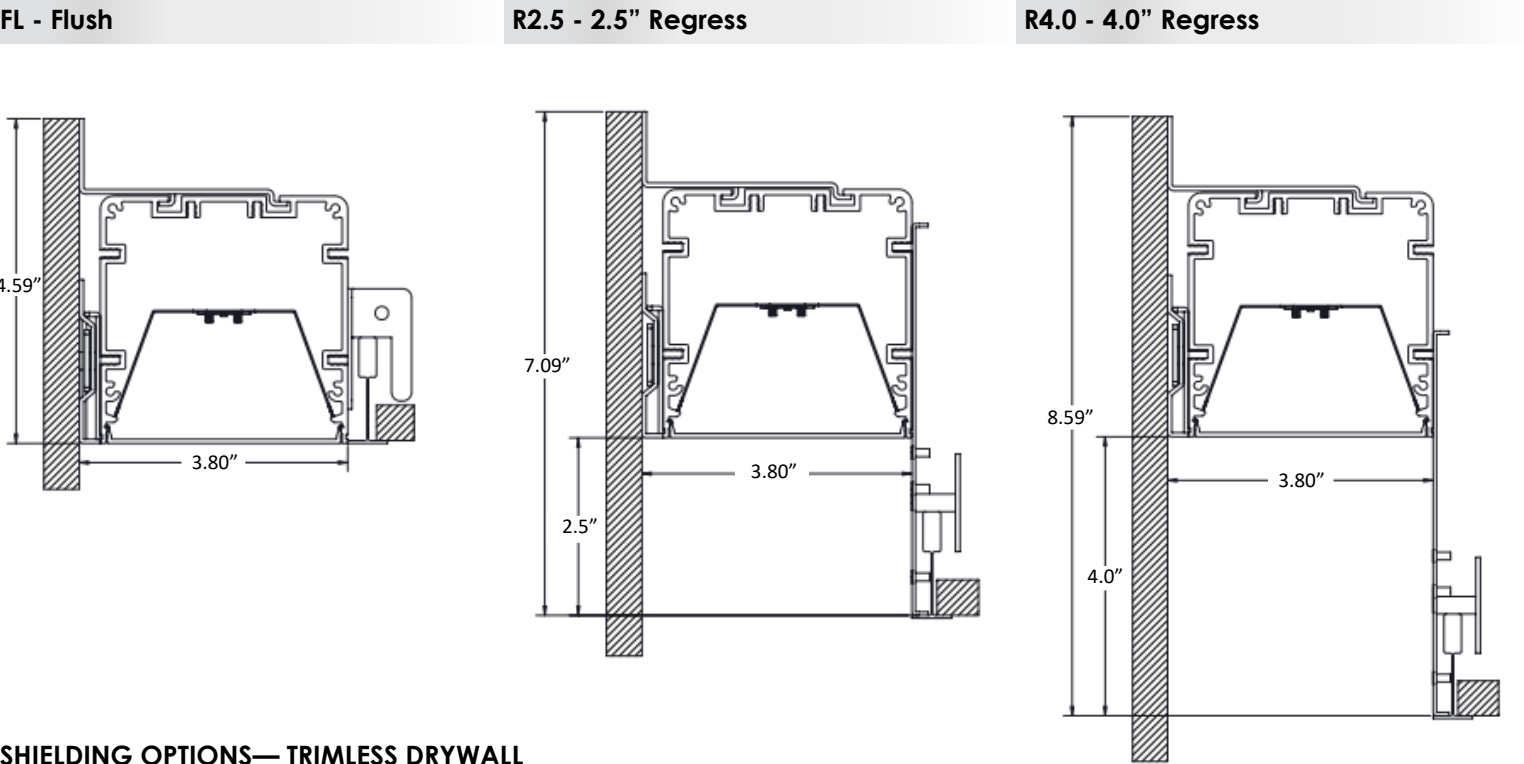


SF - Spackle Flange

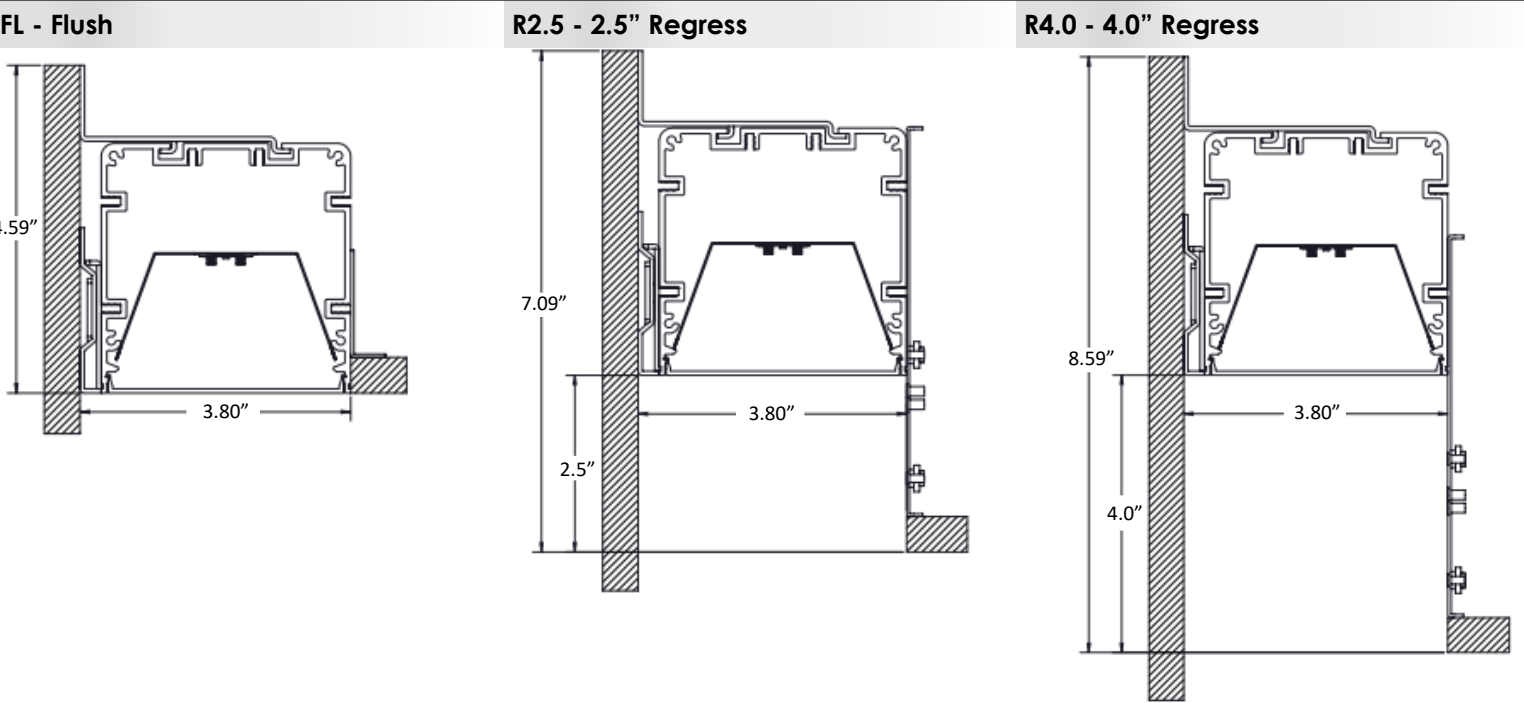


PERIMETER BEAM

SHIELDING OPTIONS—T-GRID APPLICATION



SHIELDING OPTIONS—TRIMLESS DRYWALL



Note: Luminaires must be installed prior to ceiling drywall.

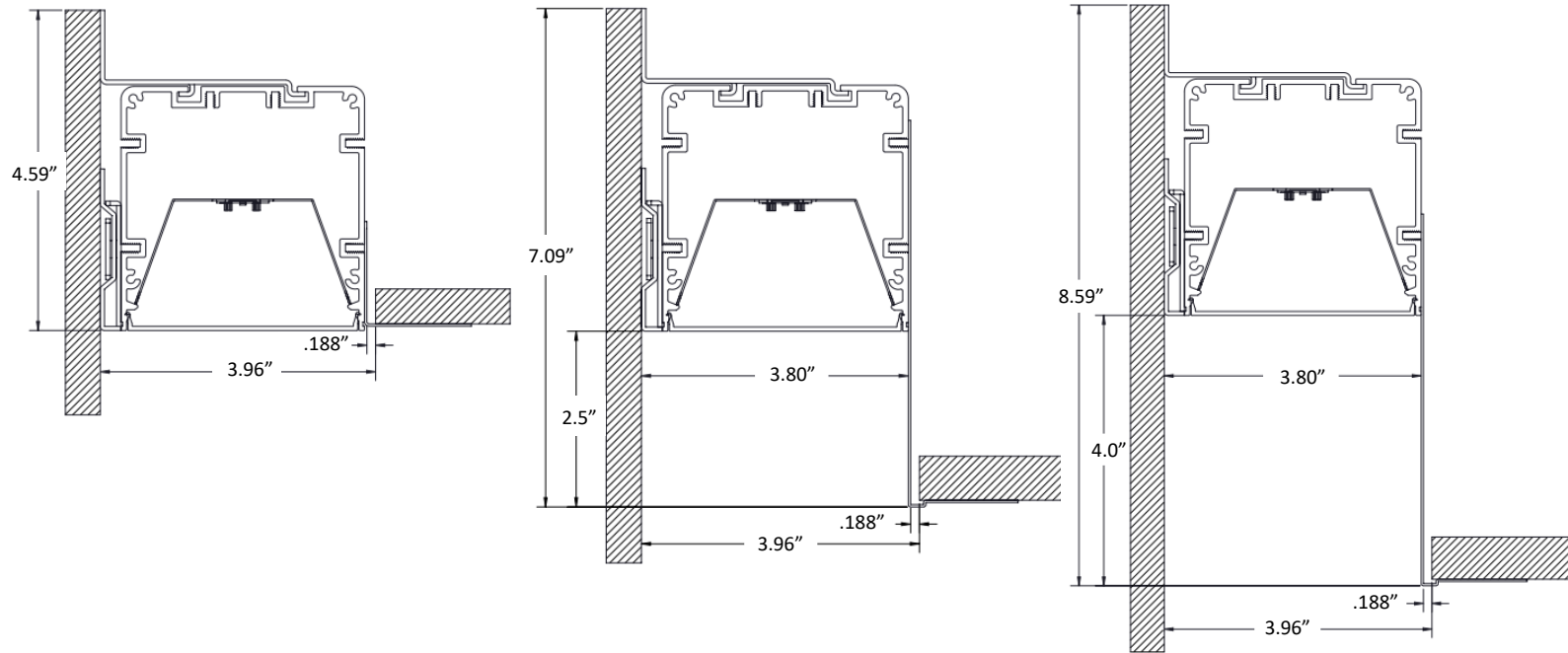
PERIMETER BEAM

SHIELDING OPTIONS—DRYWALL SPACKLE FLANGE

FL - Flush

R2.5 - 2.5" Regress

R4.0 - 4.0" Regress

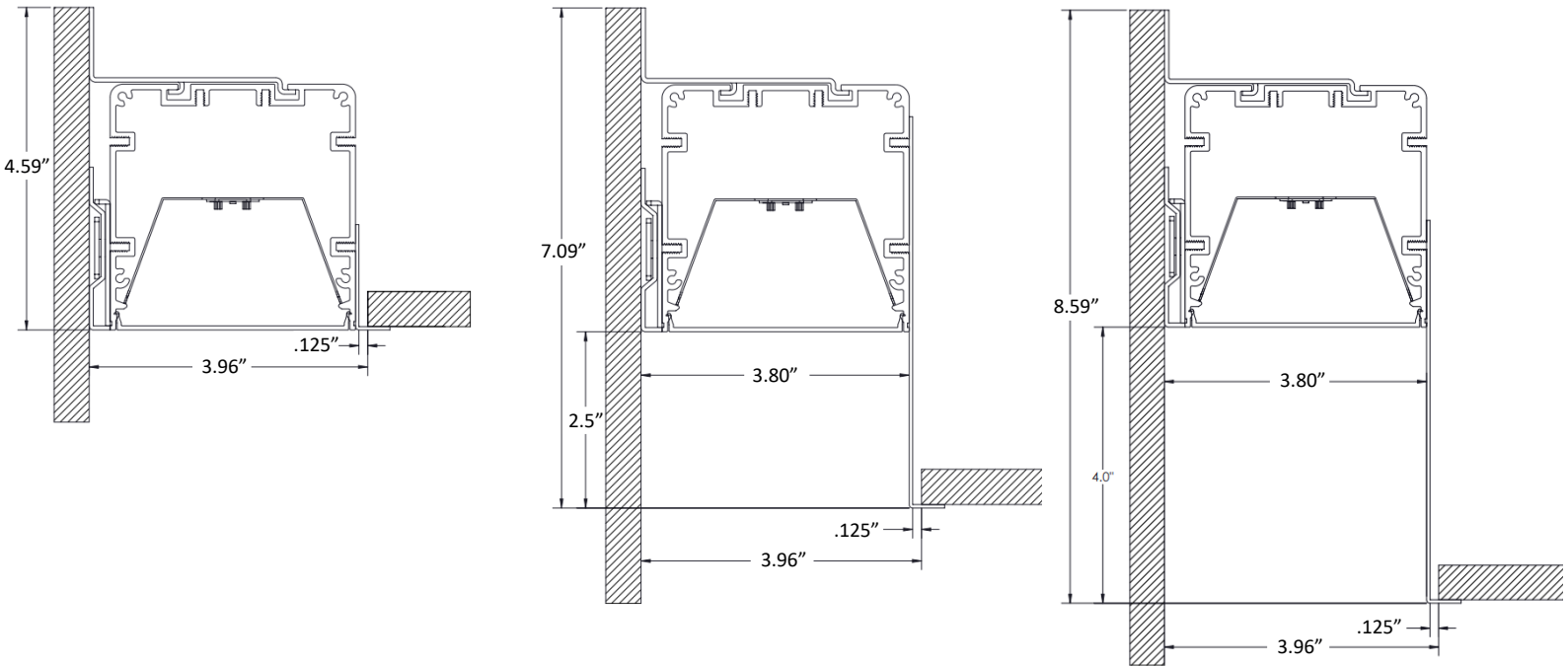


SHIELDING OPTIONS—COSMETIC BEZEL

FL - Flush

R2.5 - 2.5" Regress

R4.0 - 4.0" Regress



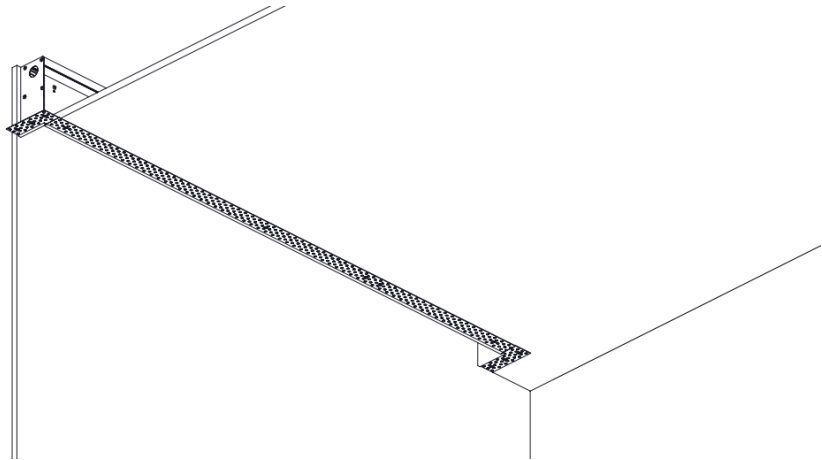
Note: Luminaires must be installed prior to ceiling drywall.

PERIMETER BEAM

HOUSING OPTIONS

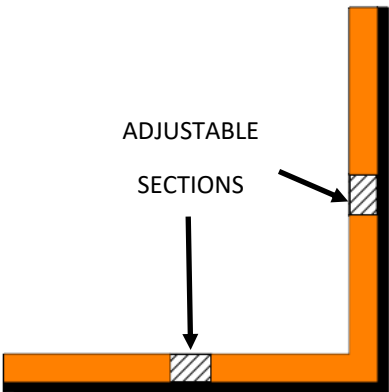
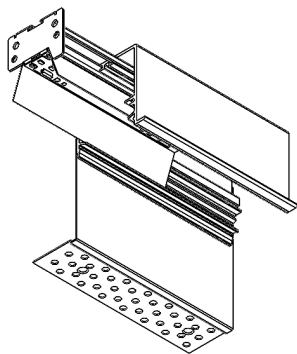
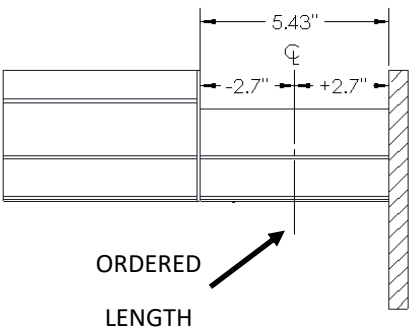
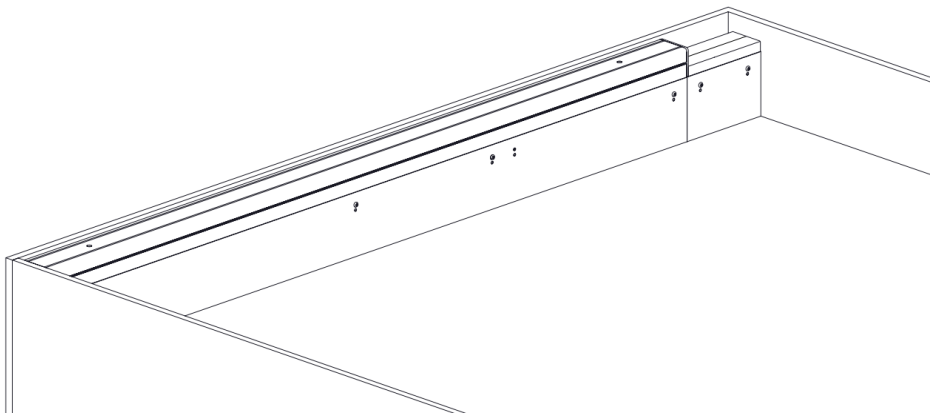
F - Fixed

Note: Fixed option should be used for all applications that are not spanning wall-to-wall. For wall-to-wall applications, see “Adjustable” section below.



A - Adjustable

Note: This option allows for flexibility in wall-to-wall perimeter applications. When ordered, the total run length allows for $\pm 2.7"$. 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.



PERIMETER BEAM

ROW CONFIGURATIONS

xx (Run Length)

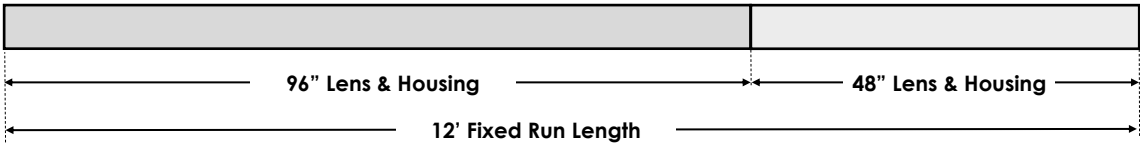
The standard construction of run lengths follows the logic of the table below. Consult factory for additional information.
Run lengths always start with the longest fixture and receives the power feed.

		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																																						
	4			1					1	1	1	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				1				1				1				1		
	8							1				1	1	1	1	1	2	1	1	1	2	2	2	2	3	2	2	2	3	3	3	3	4	3	3	3	4	4	4	4	5

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

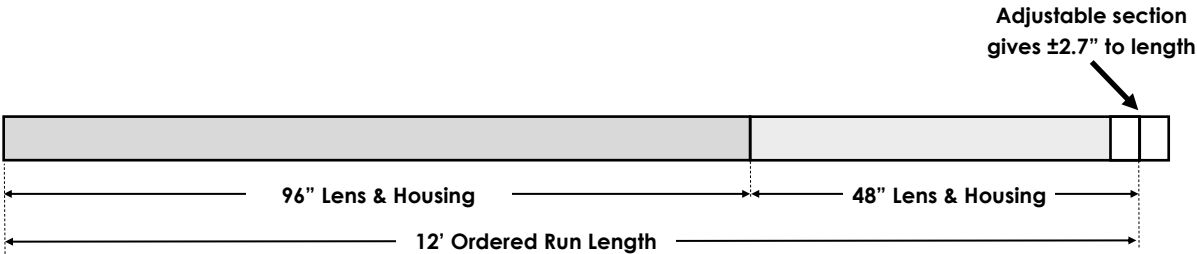
Fixed Run Length

EXAMPLE
12' FIXED RUN FIXTURES



Adjustable Run Length

EXAMPLE
12' ADJUSTABLE RUN
FIXTURES



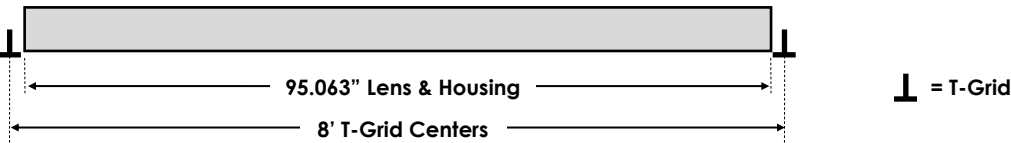
INDIVIDUAL AND CONTINUOUS FIXTURE CONFIGURATION—T-GRID

Individual & Continuous Run

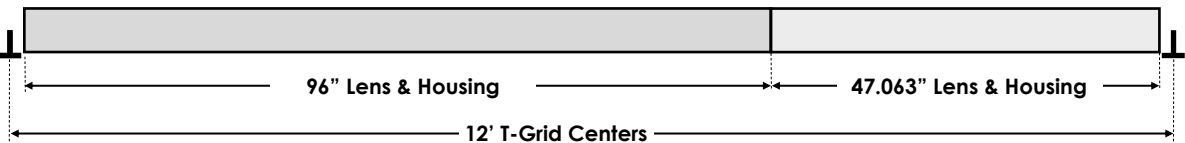
The lengths of individual fixtures and run lengths specified in the ordering logic is the distance between the centers of the T-Grids (See Page 4). The actual length of the fixtures and the lens will be shorter from that specified length. In a run, the last fixture compensates for the T-Grid. If a different 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:

EXAMPLE
8' INDIVIDUAL FIXTURE



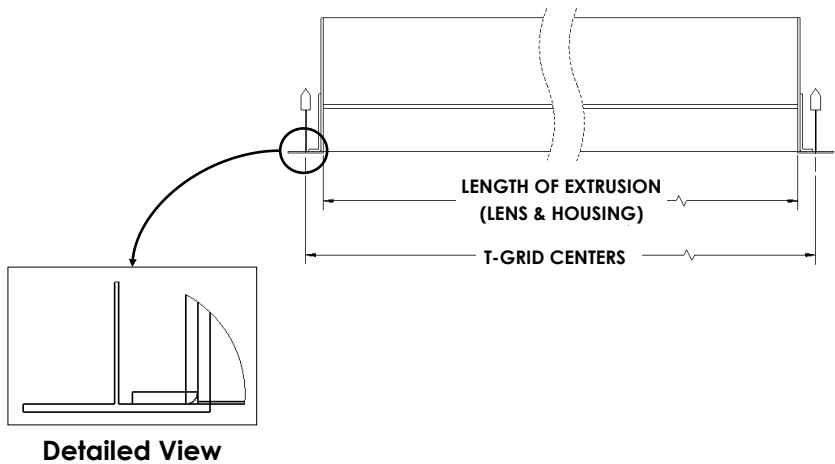
EXAMPLE
12' RUN FIXTURES



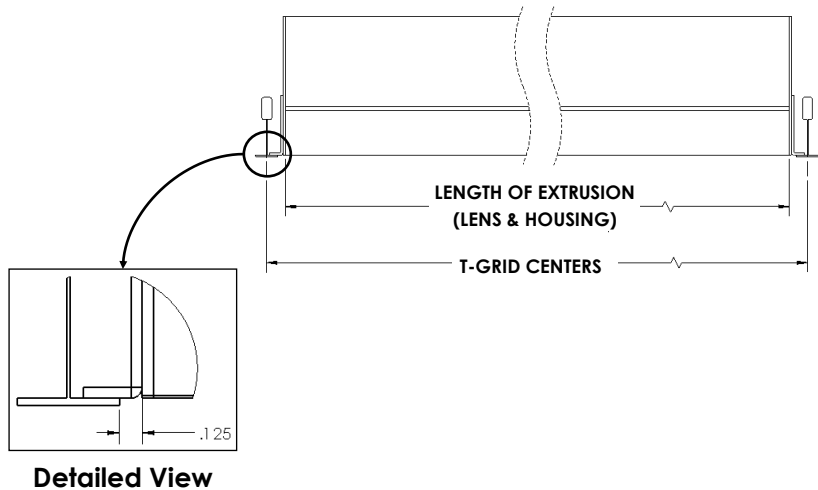
PERIMETER BEAM

T-GRID LENGTHS

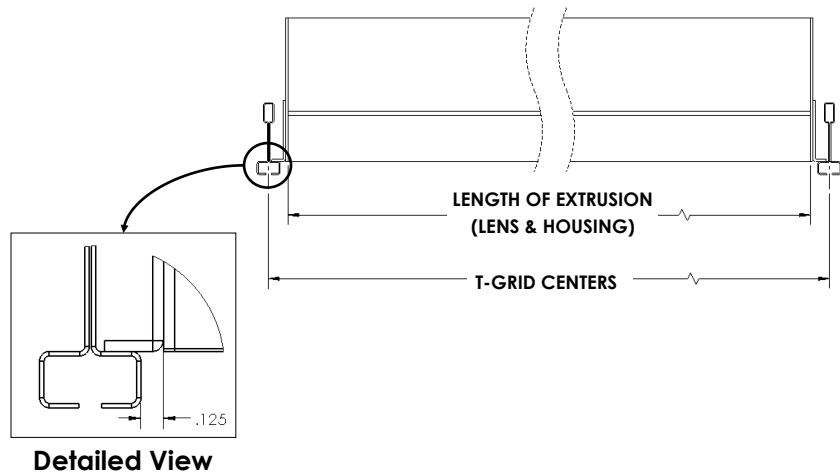
15/16" T-BAR



9/16" T-BAR



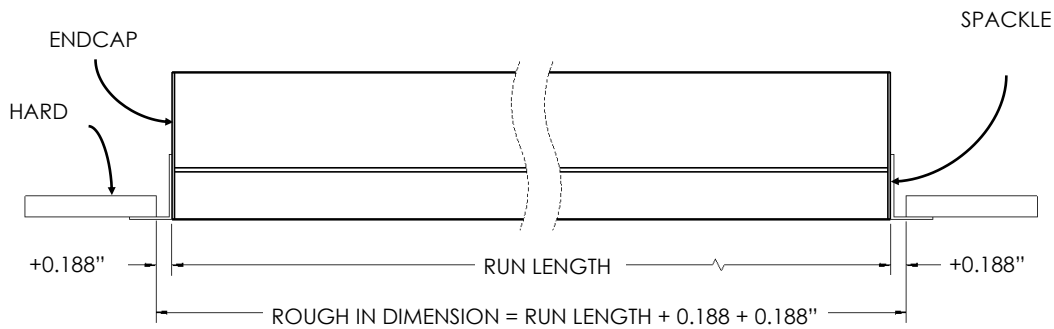
9/16" SCREW SLOT



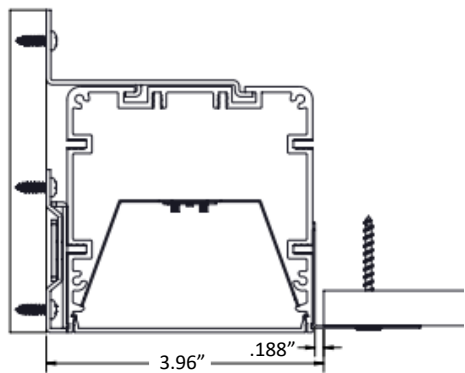
PERIMETER BEAM

HARD CEILING LENGTH DETAILS—SF AND CB

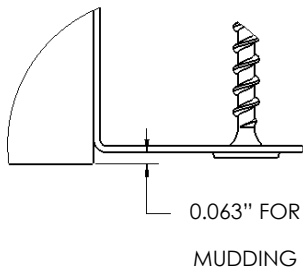
SF: (SPACKLE FLANGE)



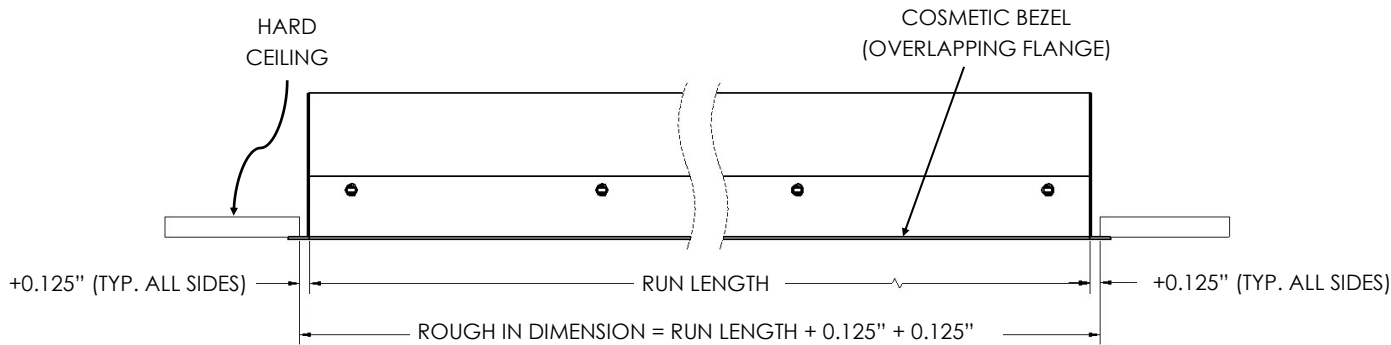
SCREW MOUNT



DETAIL VIEW



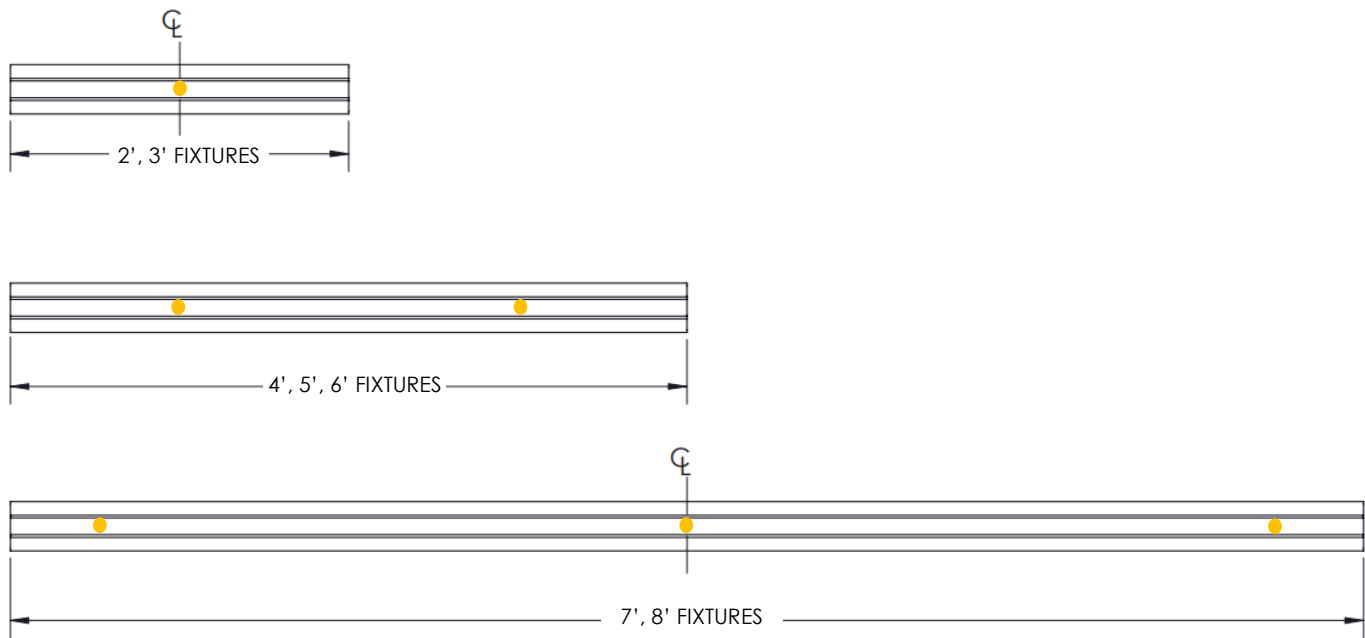
CB: COSMETIC BEZEL (OVERLAPPING FLANGE)



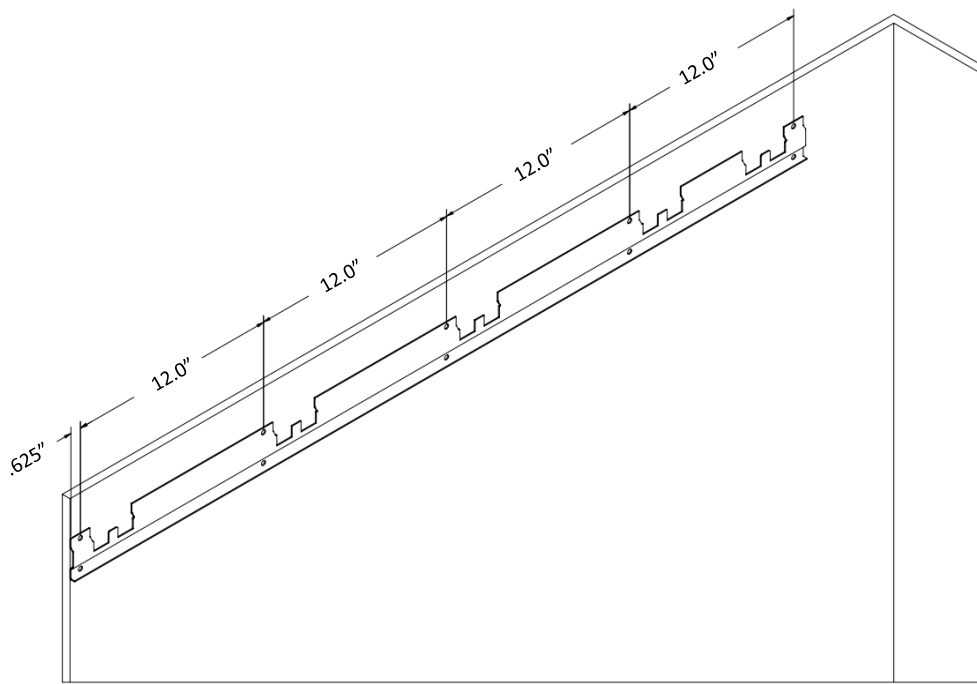
PERIMETER BEAM

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.



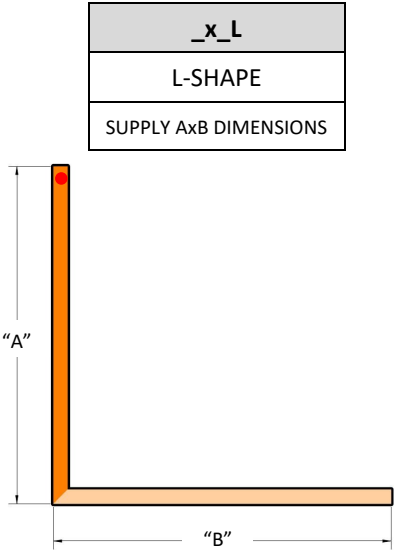
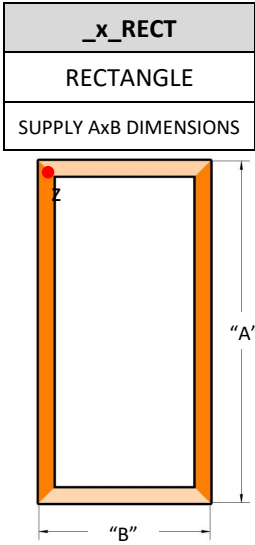
NOTE: Hole size at mounting locations is $\varnothing.266''$.



PERIMETER BEAM

SHAPE CONFIGURATION WITH MITER CUTS

Specify the configuration and overall dimensions. Note the overall dimension is for the fixture and does not include any mounting brackets or accessories. For the "L" shape, the standard construction is to build with as many 8' sections as possible or use the longest sections first and finish the shapes with a shorter length fixture if necessary.

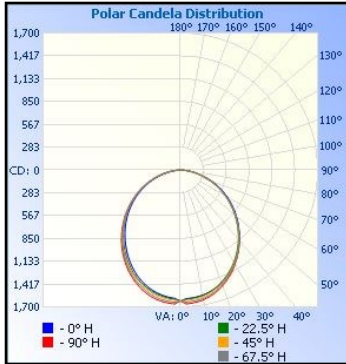


● = Power Location

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

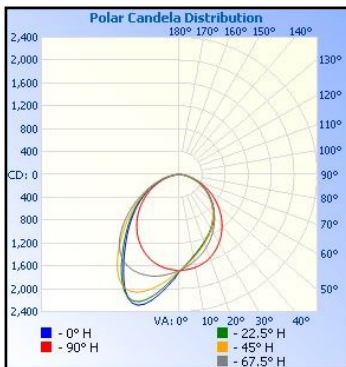
Luminance Data (cd/sg.m)

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

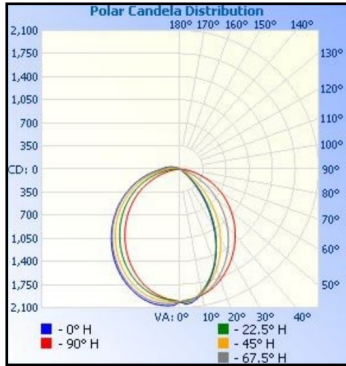
Candela Distribution

	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

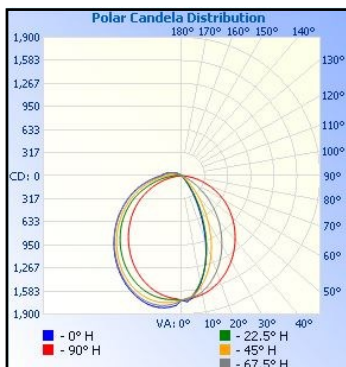
Luminance Data (cd/sg.m)

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

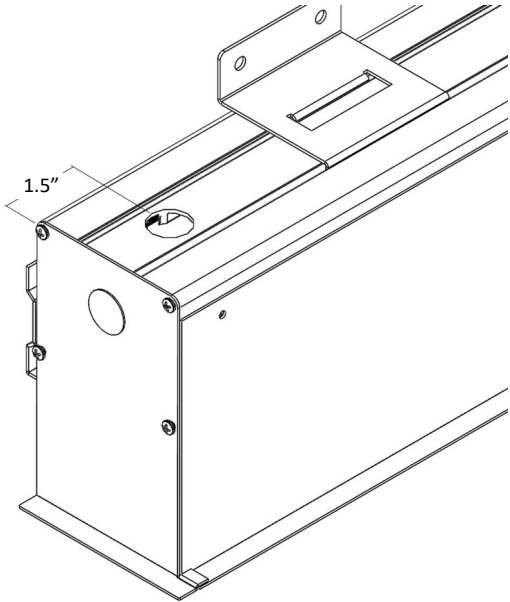
	0	22.5	45	67.5	90
0	1708	1709	1708	1708	1708
5	1680	1655	1664	1674	1674
10	1496	1482	1539	1617	1653
15	1253	1256	1373	1517	1602
20	960	988	1173	1396	1533
25	660	711	952	1255	1451
30	398	454	725	1102	1355
35	191	249	504	940	1251
40	37	87	316	777	1141
45	0	13	161	609	1027
50	0	11	45	445	910
55	0	10	26	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

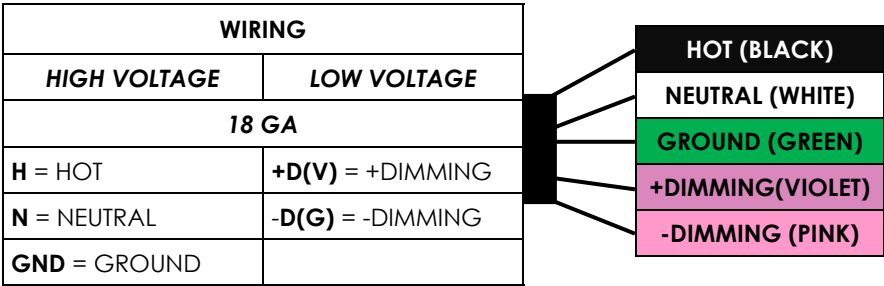
POWER LOCATION

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.

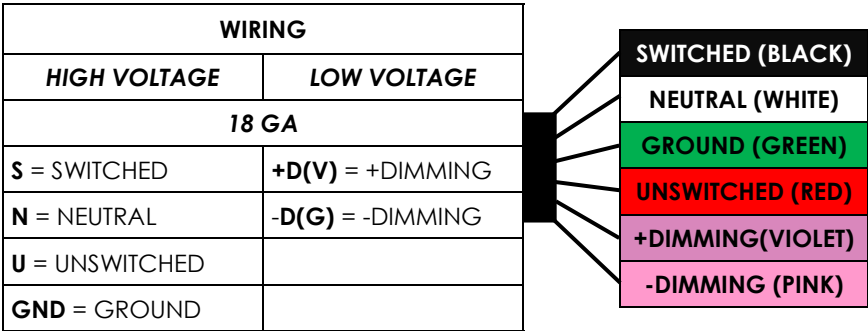


WIRING DIAGRAMS

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 a 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.

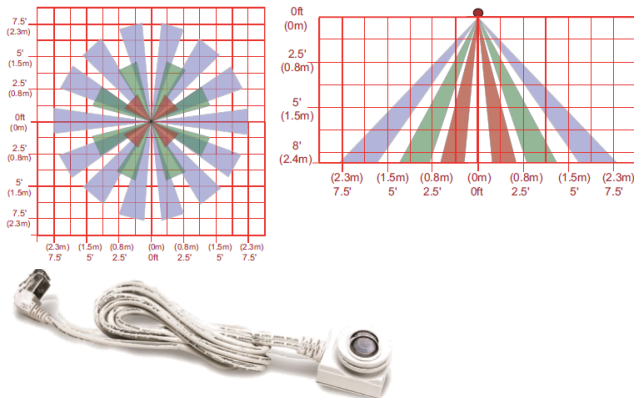
Packaging

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

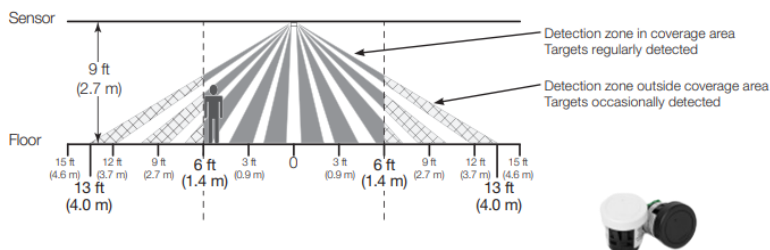
CONTROL

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

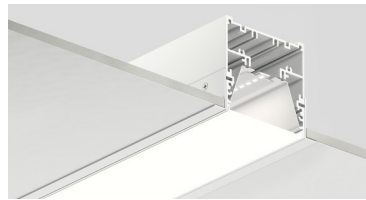
5-year limited warranty. Complete warranty terms can be located at:

http://www.starteklightingamerica.com/images/pdf/warranty/Beam_Series_Warranty.pdf

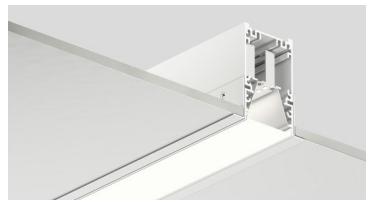
Note: Actual performance may differ as a result of installation environment and final application. All values are design or typical values, measured under laboratory conditions, at 25°C (77°F) .

COMPANION PRODUCTS

Recessed Beam



Recessed Slim Beam



Perimeter Slim Beam

