



end detail



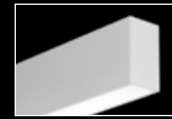
corner detail



recessed companion



wall to ceiling companion

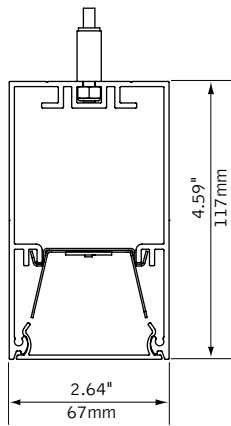


wall mount companion

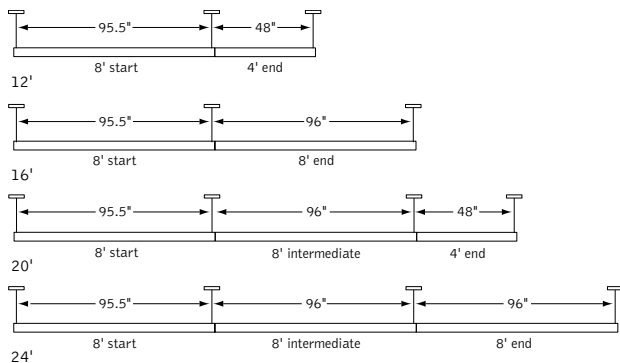


perimeter companion

DIMENSIONAL DATA



MOUNTING INFORMATION



Consult factory for additional row length information.

FEATURES

Narrow extruded aluminum 2.5" linear direct LED.

Individual units and continuous runs in 1' increments.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

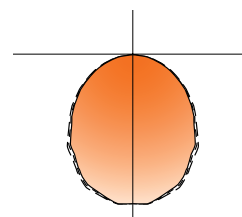
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Choice of output levels to meet a wide variety of application needs.

Connected Solutions: Integrates with wired and wireless building lighting control systems.

Preferred Light: Lighting for better color rendition and human preference.

PERFORMANCE



4' Flush Lens
Nominal output:
250 Lumens per foot

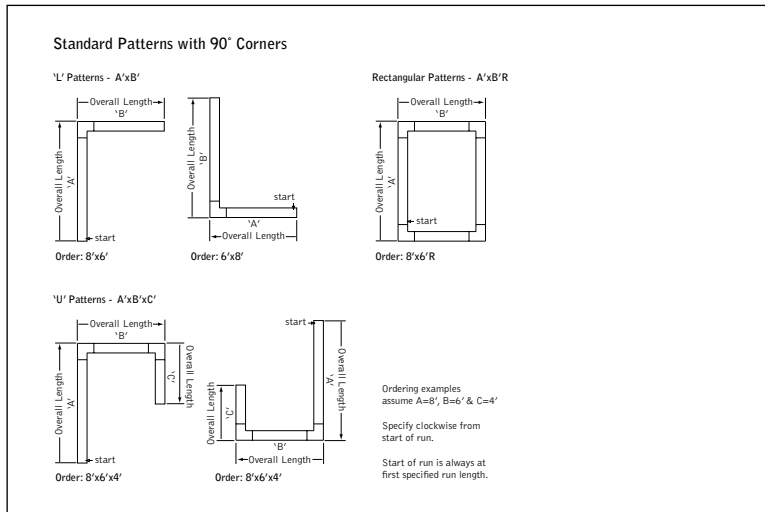
Delivered Lumens: 1000lm
Total System Watts: 13W

PRODUCT OVERVIEW

Lumen Output: 500-2500lm
Wattage: 5-33W
LPW: 76-96
SDCM: 3

Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

DETAILS



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 3000K, 3500K or 4000K with CRI>80, 3SDCM. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. Cast aluminum end caps. 2' unit weight: 4.8 lbs., 3' unit weight: 7.2 lbs., 4' unit weight: 9.6 lbs., 5' unit weight: 12 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor > .9.

Emergency Battery

Output - 10 watts for 90 minutes. Maximum mounting height: 17.9ft. See EM/EC Guide for default locations and ordering details.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 270,000 hours
 L90 at >61,000 hours L90 at 73,000 hours

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

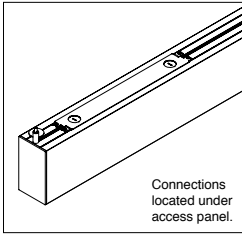
Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
Flush Lens	125LF	500	5	96
	250LF	1000	13	80
	375LF	1500	19	79
	625LF	2500	33	76

Based on 3500k, 4' lengths. *Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%. Preferred Light lumen multiplier = 0.65.

ORDERING

Luminaire Series	FSM2LS	FSM2LS
Seem 2 LED	FSM2LS	
Shielding		FL
Flush Satin Lens	FL	
Lumen Output		
125 Lumens per foot (LD1, L11 & D11 only. 4' minimum.)	125LF	
250 Lumens per foot (Not available with LU5 & LH1. 4' minimum with D11)	250LF	
375 Lumens per foot (4' minimum with LU5, LH1 & D11)	375LF	
625 Lumens per foot (3' minimum with LU5 & LH1 Drivers)	625LF	
Color Temperature		
3000K	30K	
3500K	35K	
4000K	40K	
3500K Preferred Light (Not available with Emergency Battery or patterns)	P35K	
Circuit		1C
Single Circuit	1C	
Voltage		UNV
UNV 120/277 Volt	UNV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming (3' minimum length)	LH1	
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming (3' minimum length)	LU5	
DALI - 1% Dimming (3' minimum length)	D11	
Acuity nLight - 1% Dimming (3' minimum length)	NLT1	
Enlighted Smart Sensor - 1% Dimming (3' minimum length)	ENL1	
Osram Connected Lighting Module - 1% Dimming (3' minimum length. Compatible with Dairfree Networks & Osram ENCELUM and Simlux systems.)	CLM1	
Wattstopper DLM - 1% Dimming (3' minimum length)	DLM1	
Mounting		
24" Cable Suspension	C24	
48" Cable Suspension	C48	
96" Cable Suspension (Add "P" for Chicago plenum. Eg: CP12) (Specify "J" in place of "C" for 5" Dia canopies at power feed and 2" dia canopies at non-feed locations) (Consult factory for sloped ceiling applications)	C96	
Surface Mount (Not available with DLM1 or NLT1)	SM	
Factory Options		
Emergency Circuit	_EC	
Emergency Battery Pack (4' minimum. 7' minimum with CLM1, DLM1, ENL1 & NLT1. See EM/EC Guide for default locations and ordering details.)	_EM	
Finish		
Titanium Silver	TS	
Matte White Housing	WH	
Luminaire Length Specify luminaire/row length in 1' increments (Smaller increments available. Consult factory for details.)	X'	
Pattern Options (3' minimum length)		
'L' pattern	A' x B'	
'U' pattern	A' x B' x C'	
Rectangular pattern (Consult factory for other pattern options)	A' x B' R	

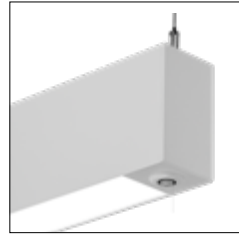
Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort.



nLight[®] provides a two-way wired digital lighting system allowing for on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting.

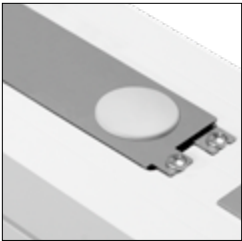
Acuity nLight - 1% Dimming (NLT1)
Acuity Model #nEPS-60-IO

CAT-5 Cable provided between segments of a run. CAT-5 Cable provided by others at start of run. Serial labels will be provided on outside of luminaires and control unit.



Enlighted smart sensor allows for occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Communicates wirelessly with the Enlighted network.

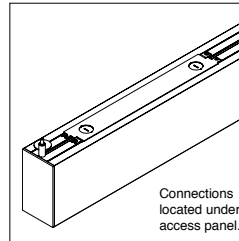
Enlighted Smart Sensor - 1% Dimming (ENL1)
Enlighted Model #SU-4E-01



Connected Lighting Module (CLM) enables each luminaire to be independently controlled and configured. Communicates wirelessly with Daintree Networks[®], Osram ENCELIUM[®], Osram Simplux[™] and other networks using the ZigBee[®] HA communication protocol to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

Osram CLM - 1% Dimming (CLM1)
Osram Model #ZBHA-CLM DIM

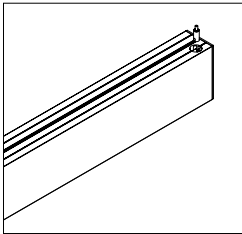
Serial labels will be provided on outside of luminaires and control unit.



A Digital Lighting Management (DLM) system that provides two-way wired communication between networked luminaires and control system to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

Wattstopper DLM - 1% Dimming (DLM1)
Wattstopper Model #LMFC-011

Segment Network Wire provided between segments of a run. Segment Network Wire provided by others at start of run. Serial labels will be provided on outside of luminaires and control unit.



A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting working with Quantum[®], Energi Savr Node[™], and Energi TriPak[®] using EcoSystem[®] communication protocol.

Lutron Hi-Lume EcoSystem - 1% Dimming (LH1)
Lutron Model #LDE1
Lutron 5-Series EcoSystem - 5% Dimming (LU5)
Lutron Model #LDE5

CONNECTED SOLUTIONS DETAILS

Connected Solution	Model #	Protocol	Compatible Networks*	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire	Drivers
Acuity nLight (NLT1)	nEPS-60-IO**	nLight	nLight	Enabled	Enabled	No	Wired	eldoLED ECOdrive , eldoLED SOLOdrive
Enlighted Smart Sensor (ENL1)	SU-4E-01**	Enlighted RF	Enlighted	Integrated	Integrated	Yes	Wireless	Philips SimpleSet , Osram Optotronic
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	Philips SimpleSet , Osram Optotronic
Lutron EcoSystem (LH1 & LU5)	LDE1,** LDE5**	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	Enabled	No	Wired	Lutron Hi-Lume Lutron 5-Series
Osram CLM (CLM1)	ZBHA-CLM**	ZigBee HA	Osram ENCELIUM & Simplux, Daintree Networks	Enabled	Enabled	No	Wireless	Osram Optotronic

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in **bold**. To specify a particular driver please consult factory.

Seem® EM/EC Guide

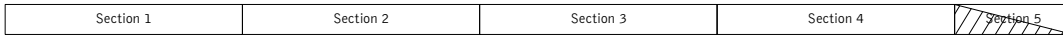
FSM2L-FL, FSM2L-FL2, FSM2LS, FSM4L-FL/SR/SRXP, FSM4L-FL2, FSM4LS, FSM4LP, FSM6L-FL/SR/SRXP*



DEFAULT LOCATIONS

- By default, EM/EC are located at the end (last section) of a run when one EM/EC location is specified, and at the start and end when two locations are specified.
- EM/EC illuminate entire sections from 4' to 8' in length.
- Feed location is at start of run. All EC's are fed individually at the end of each fixture segment.

1 EM/EC – END OF RUN



Ordering example: FSM4L-FL... **1EM-WH-36ft**

2 EM/EC – START & END OF RUN

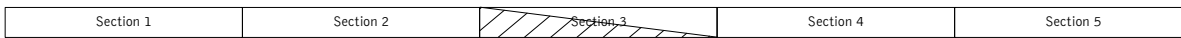


Ordering example: FSM4L-FL... **2EM-WH-36ft**

ALTERNATE LOCATIONS AND QUANTITIES

- If more than two locations are required, or specific locations within run need to be specified, indicate in the ordering string.

ONE EM IN 3RD SECTION



Ordering example: FSM4L-FL... **1EM-3-WH-40ft**

THREE EM IN 1ST, 3RD AND 6TH SECTIONS



Ordering example: FSM4L-FL... **3EM-1-3-6-WH-48ft**

CUSTOM LENGTHS

- If partial illumination of emergency section is required, indicate quantity in ordering string and partial illumination in Order Notes. Drawing required.
- Longer lead times may apply.

Run length (ft)	Housing Configuration Section Lengths
9	5 + 4
10	6 + 4
11	7 + 4
12	8 + 4
13	8 + 5
14	8 + 6
15	8 + 7
16	8 + 8
17	8 + 5 + 4
18	8 + 6 + 4
19	8 + 7 + 4
20	8 + 8 + 4
21	8 + 8 + 5
22	8 + 8 + 6
23	8 + 8 + 7
24	8 + 8 + 8
25	8 + 8 + 5 + 4
26	8 + 8 + 6 + 4
27	8 + 8 + 7 + 4

Run length (ft)	Housing Configuration Section Lengths
28	8 + 8 + 8 + 4
29	8 + 8 + 8 + 5
30	8 + 8 + 8 + 6
31	8 + 8 + 8 + 7
32	8 + 8 + 8 + 8
33	8 + 8 + 8 + 5 + 4
34	8 + 8 + 8 + 6 + 4
35	8 + 8 + 8 + 7 + 4
36	8 + 8 + 8 + 8 + 4
37	8 + 8 + 8 + 8 + 5
38	8 + 8 + 8 + 8 + 6
39	8 + 8 + 8 + 8 + 7
40	8 + 8 + 8 + 8 + 8
41	8 + 8 + 8 + 8 + 5 + 4
42	8 + 8 + 8 + 8 + 6 + 4
43	8 + 8 + 8 + 8 + 7 + 4
44	8 + 8 + 8 + 8 + 8 + 4
45	8 + 8 + 8 + 8 + 8 + 5
46	8 + 8 + 8 + 8 + 8 + 6
47	8 + 8 + 8 + 8 + 8 + 7
48	8 + 8 + 8 + 8 + 8 + 8

Standard run configurations, consult factory for custom configurations.

*Recessed and suspended only. Does not include direct/indirect, pop-down lens or asymmetric options.

Seem[®] 2

LED - FLUSH LENS

FSM2L-FL-250LF-35K-1C-120-LD1-G1-WH-4

Lumens: 1155lm

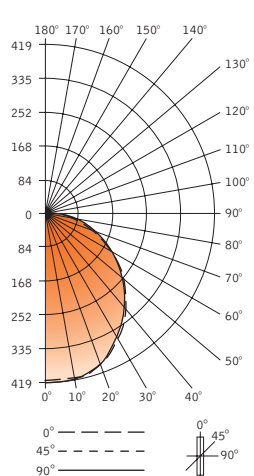
Filename: FSM2LFL250LF35K.IES

System Watts: 13W

Test #: 11482956.01

LPW: 85

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	419	419	419	419	419
5°	416	420	417	417	417
15°	399	403	400	400	400
25°	367	369	365	364	364
35°	319	321	317	316	315
45°	262	264	261	260	259
55°	203	204	201	201	201
65°	140	142	141	141	141
75°	79	81	81	81	82
85°	25	25	25	25	26
90°	1	3	3	3	3
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-40°	520	45.0
0-60°	902	78.1
0-90°	1155	100.0
Total Luminaire 0-180°	1155	100.0

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal		
	0°	45°	90°
45°	4895	4867	4837
55°	4658	4637	4622
65°	4373	4397	4400
75°	4044	4108	4156
85°	3776	3794	3860

Go to www.focalpointlights.com for additional photometric data.