Seem® 4 Grid Ceiling
LED
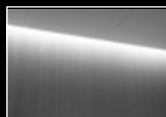
FOCAL POINT®

regress lens

drywall/hard ceiling companion

wall to ceiling companion

perimeter companion

suspended companion

DIMENSIONAL DATA

Flush lens, lay-in

Flush lens, Tegular detail

4.11"
104.4mm

4.00"
101.6mm

5.00"
127.0mm

Regress lens, lay-in

5.88"
150.0mm

4.00"
101.6mm

5.00"
127.0mm
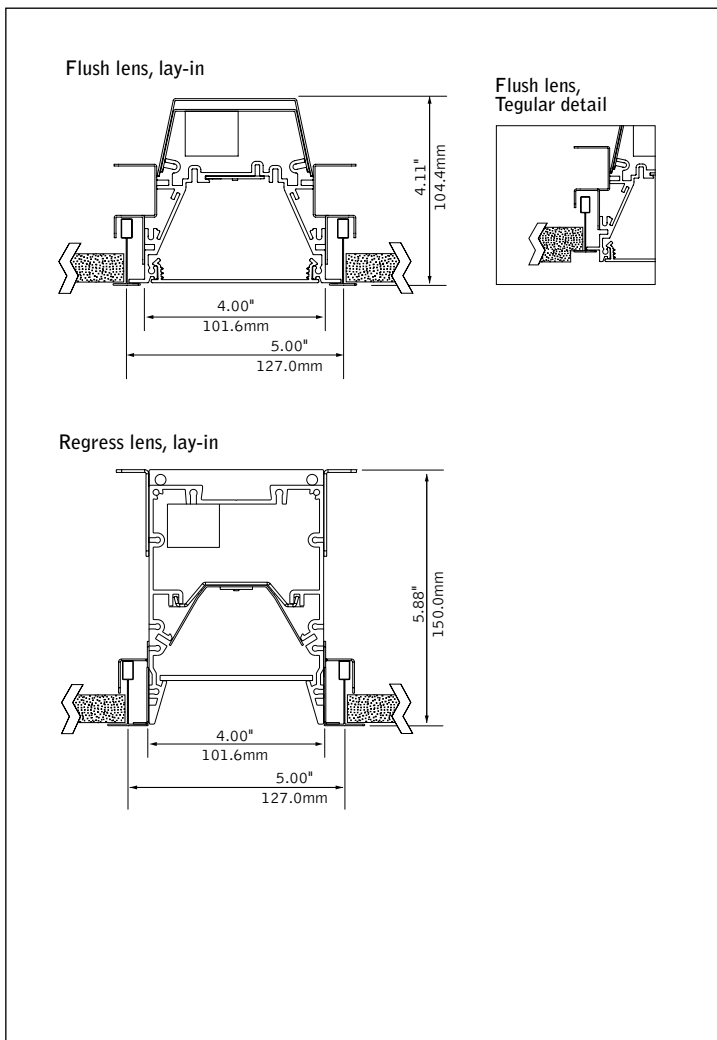
FEATURES

4" aperture recessed slot LED integrates with grid ceilings for a clean, unobtrusive aesthetic.

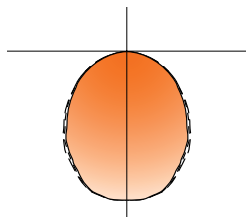Individual units and continuous runs in 1" increments.

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.

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:
375 Lumens per foot

Delivered Lumens: 1520lm

Total System Watts: 14W

PRODUCT OVERVIEW

Lumen Output:	1532-4145lm
Wattage:	14-46W
LPW:	88-114
SDCM:	3

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

DETAILS

Standard Patterns with 90° Corners

'L' Patterns - A'xB'
Order: 8'x6'
Order: 6'x8'

Rectangular Patterns - A'xB'R
Order: 8'x6'R

'U' Patterns - A'xB'xC'
Order: 8'x6'x4'
Order: 8'x6'x4'

Housing Length Details
1" increments are based on T-centers.
Housing is 1" shorter than specified length.

8'-5" Grid example

Ordering examples assume A=8', B=6' & C=4'.
Specify clockwise from start of run.
Start of run is always at first specified run length.

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 2700K, 3000K, 3500K or 4000K with CRI>80, 3SDCM. LED modules are replaceable from below. Flush lens driver access from above. Regress lens driver access from below.

Construction
One piece extruded aluminum housing. 20 Ga. steel end caps. Steel driver compartment,flush lens only. Flush lens weights: 4' unit: 11 lbs., 8' unit: 22 lbs. Regress lens weights: 4' unit: 20 lbs., 8' unit: 40 lbs.

Optic
Extruded acrylic lens .085" thick with satin finish, up to 8' continuous. Regress lens .118" thick acrylic lay-in lens and 22 Ga. reflector finished in High Reflectance White powder coat.

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
Output - 10 watts for 90 minutes. Maximum mounting height: 19.2ft.
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 > 61,000 hours   Calculated: L70 at > 480,000 hours
          L90 > 61,000 hours   L90 at > 128,000 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	375LF	1532	14	109
	625LF	2568	23	111
	875LF	3631	32	114
	1000LF	4145	37	111
Regress Lens	375LF	1606	17	95
	625LF	2581	27	96
	875LF	3502	39	90
	1000LF	4020	46	88
Regress High Performance	375LF	1606	14	115
	625LF	2581	23	113
	875LF	3502	33	107
	1000LF	4020	39	104

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Preferred Light = 0.65, 90+ CRI = 0.87.
Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING

Luminaire Series   FSM4L
Seem 4 LED   FSM4L

Shielding
Flush Satin Lens   FL
Regress Lens   SR
Regress High Performance Lens   SRXP

Lumen Output
275 Lumens per foot   275LF
(Not available with Lutron Drivers.)
375 Lumens per foot   375LF
(Not available with LU5 or LH1 Drivers.)
625 Lumens per foot   625LF
(FL & SR 3' minimum with LU5 & LH1 Drivers. SRXP 4' minimum with LU5 & LH1 Drivers.)
875 Lumens per foot   875LF
(SR & SRXP 3' minimum with LU5 & LH1 Drivers)
1000 Lumens per foot   1000LF

Color Temperature
2700K, 80+ CRI or 90+ CRI   27K or 927K
3000K, 80+ CRI or 90+ CRI   30K or 930K
3500K, 80+ CRI or 90+ CRI   35K or 935K
4000K, 80+ CRI or 90+ CRI   40K or 940K
3500K, Preferred Light   P35K
(Flush Lens only. 6" increments. Patterns not available.)

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   LH1
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming   LU5
DALI 1% Dimming   D11
Acuity nLight - 1% Dimming   NLT1
(3' minimum length. Not available with CP.)
Enlighted Smart Sensor - 1% Dimming   ENL1
(3' minimum length.)
Osram Connected Lighting Module for ENCELIUM systems - 1% Dimming   CLM1
(3' minimum length. Compatible with Osram ENCELIUM and ENCELIUM EDGE systems only)
Osram Connected Lighting Module for ZigBee Wireless Networks - 1% Dimming   CLMZ1
(3' minimum length. Not compatible with Osram ENCELIUM systems)
Wattstopper DLM - 1% Dimming   DLM1
(3' minimum length.)

Ceiling Configuration
Std. 15/16" Lay-in   G1
Std. 15/16" Tegular   T1
Std. 9/16" Lay-in   G2
Std. 9/16" Tegular   T2
9/16" Slot-tee Tegular   G3
Tall 15/16" Lay-in   G4
Tall 15/16" Tegular   T4
Tall 9/16" Lay-in   G5
Tall 9/16" Tegular   T5
Node 9/16" Tegular   T6

Factory Options
Chicago Plenum   CP
Emergency Circuit   _EC
(4' minimum. 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1.)
Emergency Battery Pack   _EM
(4' minimum. 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1. Not available at corners. See EM/EC Guide for default locations and ordering details.)
6' New York City Flex Whip (120V)   FNY1
6' New York City Flex Whip (277V)   FNY2
6' Flex Whip   FW

Finish   WH
Matte White Housing   WH

Luminaire Length   ft   in
Specify luminaire/row   _ft _in
length in 1" increments
(2' minimum, lengths are nominal 1" increments based on T-centers. Housing length is 1" shorter than specified. Leave blank for patterns. Smaller increments available, consult factory.)

Pattern Options
(3' minimum length)
'L' pattern   A' x B'
'U' pattern   A' x B' x C'
Rectangular pattern   A' x B'R
(Consult factory for other pattern options)

QS 10 DAY
Options in orange qualify for the Quickship program. Run lengths in 1' increments, 2' minimum length. 400' total. Refer to Quickship Guide for complete details including EM/EC options.

For more information visit focalpointlights.com/reference or consult factory.

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. All Connected Solutions luminaires require a compatible building control system.†
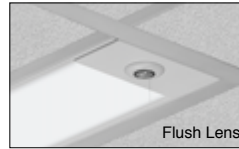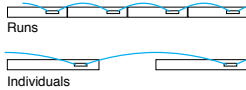
nLIGHT

Connections located under access panel.

Runs

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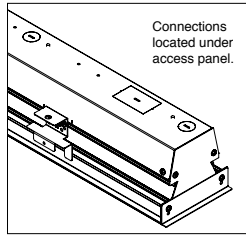
nLight® provides a two-way wired digital lighting system allowing for on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting.

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

CAT-5 Cable provided by others. Serial labels will be provided on outside of luminaires and control unit.

enlighted

Flush Lens

Regress Lens

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
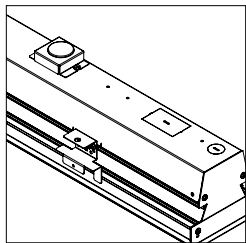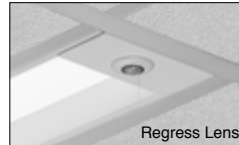
OSRAM

Connected Lighting Module (CLM) enables each luminaire to be independently controlled and configured. Communicates wirelessly with Daintree Networks®, Osram ENCELIUM®, Osram ENCELIUM EDGE™, 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 & CLMZ1)
Osram Model #ZBHA-CLM DIM

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

legrand® WATTSTOPPER®

Runs

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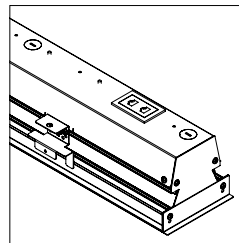
A Digital Lighting Management (DLM) system that provides two-way wired communication between networked luminaires and control system to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

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

CAT-5 Cable provided by others. Serial labels will be provided on outside of luminaires and control unit.

LUTRON®

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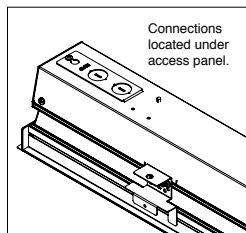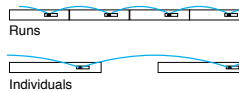
A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting working with Quantum®, Energi Savr Node™, and Energi TriPak® using EcoSystem® communication protocol.

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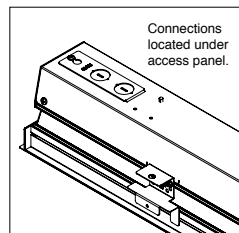
CRESTRON®

Connections located under access panel.

A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting. Communicates with Zūm wireless and SpaceBuilder working with Zūm hub scheduling or FUSION management.

DALI - 1% Dimming (D11)
0-10V - 1% Dimming (L11)
Note: 0-10V is not a digital network but is compatible with Creston Zūm™ system.

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
Crestron (D11, L11)	Specified Driver	DALI 0-10V	Crestron Zūm Wireless & SpaceBuilder	Enabled	Enabled	No	Wired	**eldoLED ECOdrive (DALI), Philips Xitanium (0-10V)**
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 for ENCELIUM systems (CLM1)	ZBHA-CLM**	ZigBee HA	Osram ENCELIUM & ENCELIUM EDGE	Enabled	Enabled	No	Wireless	**Osram Optotronic**
Osram CLM for ZigBee Wireless Networks (CLMZ1)	ZBHA-CLM**	ZigBee HA	Daintree Networks & open ZigBee 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. †Controls systems supplied by others.

Seem® EM/EC Guide

FSM1, FSM1S, FSM1W, FSM2L-FL, FSM2L-FL2, FSM2LS, FSM2LW, FSM4L-FL/SR/SRXP, FSM4L-FL2, FSM4LS, FSM4LW, FSM4LP, FSM6L-FL/SR/SRXP*

FOCAL POINT®

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

Section 1	Section 2	Section 3	Section 4	Section 5

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

2 EM/EC – START & END OF RUN

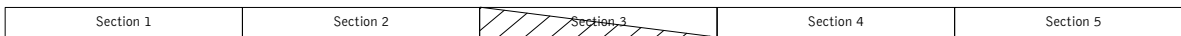| Section 1	Section 2	Section 3	Section 4	Section 5

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

Section 1	Section 2	Section 3	Section 4	Section 5

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

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

Section 1	Section 2	Section 3	Section 4	Section 5	Section 6

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	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	28	8 + 8 + 8 + 4
10	6 + 4	29	8 + 8 + 8 + 5
11	7 + 4	30	8 + 8 + 8 + 6
12	8 + 4	31	8 + 8 + 8 + 7
13	8 + 5	32	8 + 8 + 8 + 8
14	8 + 6	33	8 + 8 + 8 + 5 + 4
15	8 + 7	34	8 + 8 + 8 + 6 + 4
16	8 + 8	35	8 + 8 + 8 + 7 + 4
17	8 + 5 + 4	36	8 + 8 + 8 + 8 + 4
18	8 + 6 + 4	37	8 + 8 + 8 + 8 + 5
19	8 + 7 + 4	38	8 + 8 + 8 + 8 + 6
20	8 + 8 + 4	39	8 + 8 + 8 + 8 + 7
21	8 + 8 + 5	40	8 + 8 + 8 + 8 + 8
22	8 + 8 + 6	41	8 + 8 + 8 + 8 + 5 + 4
23	8 + 8 + 7	42	8 + 8 + 8 + 8 + 6 + 4
24	8 + 8 + 8	43	8 + 8 + 8 + 8 + 7 + 4
25	8 + 8 + 5 + 4	44	8 + 8 + 8 + 8 + 8 + 4
26	8 + 8 + 6 + 4	45	8 + 8 + 8 + 8 + 8 + 5
27	8 + 8 + 7 + 4	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.