

# Seem® 4 Grid Ceiling

LED



regress lens



drywall/hard ceiling companion



wall to ceiling companion



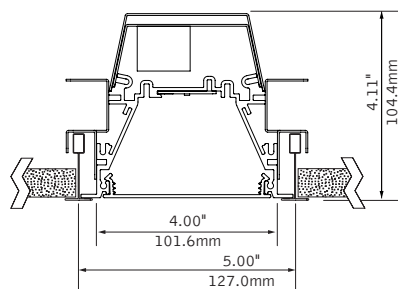
perimeter companion



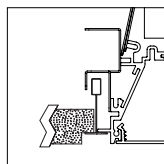
suspended companion

## DIMENSIONAL DATA

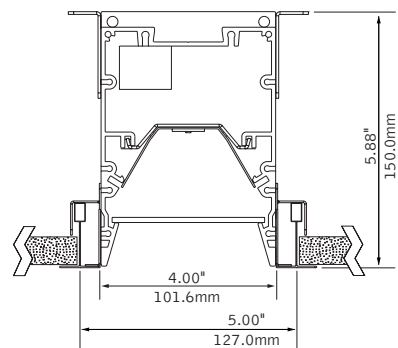
Flush lens, lay-in



Flush lens, Tegular detail



Regress lens, lay-in



## 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.

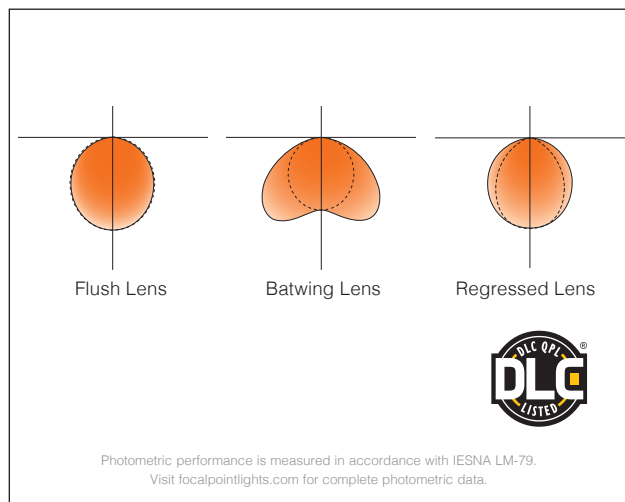
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

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

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

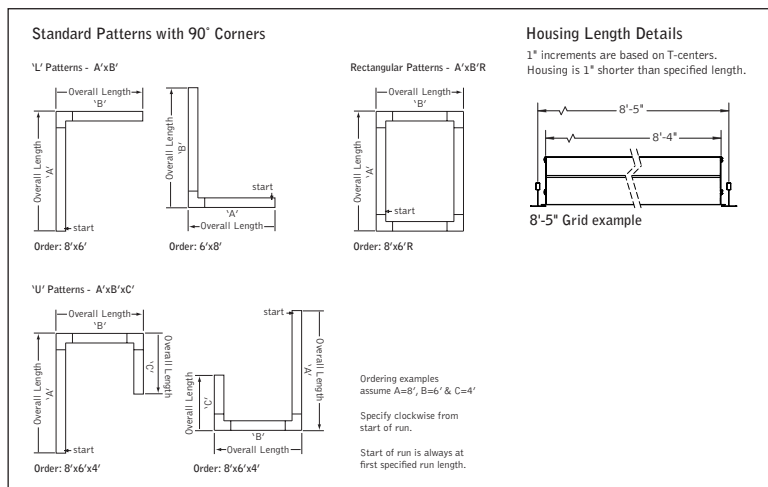
PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

## DISTRIBUTIONS



Photometric performance is measured in accordance with IESNA LM-79.  
Visit [focalpointlights.com](http://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 2700K, 3000K, 3500K or 4000K with CRI>80, 3 SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. 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. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 19.2ft.  
Emergency Circuit with Connected Solutions (NLT1, ENL1, CLM1, CLMZ1, DLM1) shipped standard with leads to connect UL924 compliant device, by others. 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

See page 3.





Options in orange qualify for the Quickship program. 1000' total, 48' maximum per pattern section. Refer to Quickship Guide for complete details including EM/EC options.

## ORDERING



	Luminaire Series	FSM4L
	Seem 4 LED	FSM4L
	Shielding	
	Batwing Lens	BW
	Flush Satin Lens	FL
	Regress Lens	SR
	Regress High Performance Lens	SRXP
	Lumen Output	
	275 Lumens per foot (Not available with Lutron Drivers.)	275LF
	375 Lumens per foot (Not available with LU5 & LH1 Drivers)	375LF
	625 Lumens per foot (BW, FL & SR 3' minimum with LU5 & LH1 Drivers. SRXP 4' minimum with LU5 & LH1 Drivers.)	625LF
	875 Lumens per foot (SR & SRXP 3' minimum with LU5 & LH1 Drivers)	875LF
	1000 Lumens per foot	1000LF
	1125 Lumens per foot	1125LF
	1250 Lumens per foot	1250LF
	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
	(BW & FL Lens only. 6" increments. Patterns not available.)	
	Circuit	1C
	Single Circuit	1C
	Voltage	
	UNV 120/277 Volt	UNV
	Low Voltage	LV
	Control System & Dimming Level	
	0-10V - 10% Dimming	LD1
	0-10V - 1% Dimming	L11
	Low Voltage, PoE compatible	LVN
	(No driver. Not available with EM or EC. LV Voltage only.)	
	Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
	Lutron 5-Series EcoSystem (LDE5) - 5% Dimming	LU5
	DALI 1% Dimming (1000LF max.)	D11
	Acuity nLight - 1% Dimming (3' minimum length. Not available with CP.)	NLT1
	Enlighted Smart Sensor - 1% Dimming (3' minimum length.)	ENL1
	Osram Connected Lighting Module for ENCELIUM systems - 1% Dimming (3' minimum length. Compatible with Osram ENCELIUM and ENCELIUM EDGE systems only)	CLM1
	Osram Connected Lighting Module for ZigBee Wireless Networks - 1% Dimming (3' minimum length. Not compatible with Osram ENCELIUM systems)	CLMZ1
	WattstopperDLM - 1% Dimming (3' minimum length.)	DLM1
	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. CLM1, CLMZ1, DLM1, ENL1 & NLT1 7' minimum.)	
	Emergency Battery Pack	_EM
	(2' minimum. 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1. Not available at corners. See EMEC Guide for default locations and ordering details.)	
	6' New York City Flex Whip (120V)	FNYP1
	6' New York City Flex Whip (277V)	FNYP2
	6' Flex Whip	FW
	Finish	WH
	Matte White Housing	WH
	Luminaire Length	
	Specify luminaire/row length in 1" increments	_ft _in
	(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. Individual units cannot be joined in the field.)	
	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)	

4' PERFORMANCE CHART

			LPW	
Lumens Output	Delivered Lumens	Tested System Watts		
			BW	FL
275	1100	10	111	108
375	1500	13	121	119
625	2500	22	117	115
875	3500	32	116	114
1000	4000	37	115	112
1125	4500	41	113	110
1250	5000	46	112	110

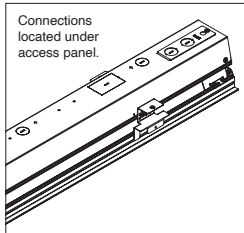
Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Preferred Light = 0.65, 90+ CRI = 0.87.  
Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

4' PERFORMANCE CHART - REGRESS

			LPW	
Lumens Output	Delivered Lumens	Tested System Watts		
			SR	SRXP
275	1100	12	79	98
375	1500	16	84	109
625	2500	26	84	110
875	3500	39	80	105
1000	4000	46	77	101
1125	4500	53	76	101
1250	5000	59	75	99

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 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.<sup>†</sup>

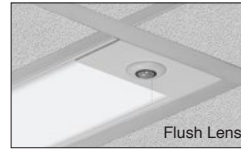
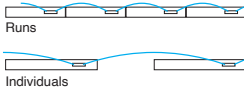


## nLIGHT

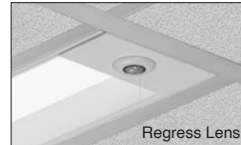
nLight<sup>®</sup> provides a two-way wired digital lighting system allowing for on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting.

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.



Flush Lens



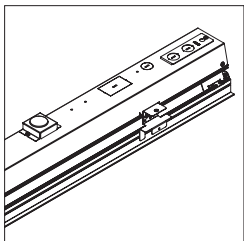
Regress Lens

## enlighted<sup>™</sup>

A Siemens Company

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-5E-IOT

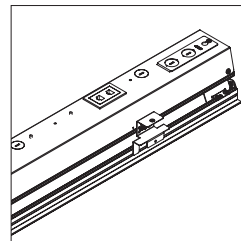


## OSRAM

Connected Lighting Module (CLM) enables each luminaire to be independently controlled and configured. Communicates wirelessly with Daintree Networks<sup>®</sup>, Osram ENCELUM<sup>®</sup>, Osram ENCELUM EDGE<sup>™</sup>, and other networks using the ZigBee<sup>®</sup> 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.



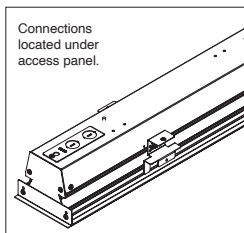
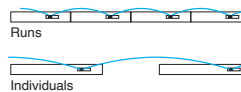
## legrand<sup>®</sup>

WATTSTOPPER<sup>®</sup>

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

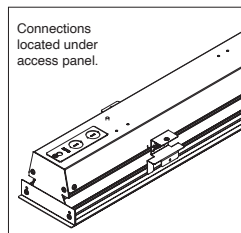
CAT-5 Cable provided by others. Serial labels will be provided on outside of luminaires and control unit.



## LUTRON<sup>®</sup>

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

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



## CRESTRON<sup>®</sup>

A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting. Communicates with Züm wireless and SpaceBuilder working with Züm 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 Züm<sup>™</sup> 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	<b>eldoLED ECOdrive</b> , eldoLED SOLOdrive
Crestron (D11, L11)	Specified Driver	DALI 0-10V	Crestron Züm Wireless & SpaceBuilder	Enabled	Enabled	No	Wired	<b>eldoLED ECOdrive (DALI)</b> , Advance by Signify (0-10V)
Enlighted Smart Sensor (ENL1)	SU-5E-IOT**	Enlighted RF	Enlighted	Integrated	Integrated	Yes	Wireless	<b>Advance by Signify</b> , Osram Dexal
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	<b>Advance by Signify</b> , Osram Optotronic
Lutron EcoSystem (LH1 & LU5)	LDE1,** LDE5**	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	Enabled	No	Wired	<b>Lutron Hi-Lume</b> <b>Lutron 5-Series</b>
Osram CLM for ENCELUM systems (CLM1)	ZBHA-CLM**	ZigBee HA	Osram ENCELUM & ENCELUM EDGE	Enabled	Enabled	No	Wireless	<b>Osram Optotronic</b>
Osram CLM for ZigBee Wireless Networks (CLMZ1)	ZBHA-CLM**	ZigBee HA	Daintree Networks & open ZigBee Networks	Enabled	Enabled	No	Wireless	<b>Osram Optotronic</b>

\*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.