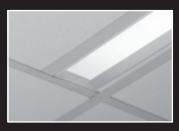
Seem® 4 Grid Ceiling

LED

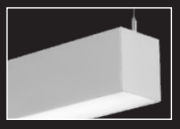
FOCAL POINT®


regress lens


drywall/hard ceiling companion

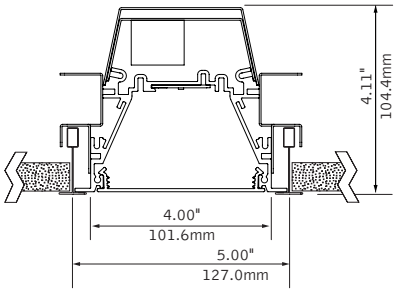

wall to ceiling companion


perimeter companion

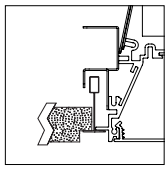

suspended companion

DIMENSIONAL DATA

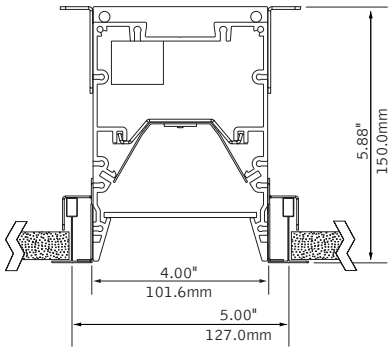
Flush lens, lay-in



Flush lens, Tegular detail



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.

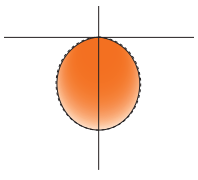
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

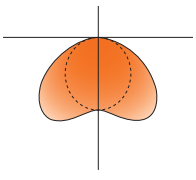
Connected Solutions: Integrates with wired and wireless building lighting control systems.

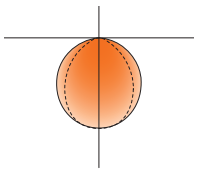
Preferred Light: Lighting for better color rendition and human preference.

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

DISTRIBUTIONS


Flush Lens

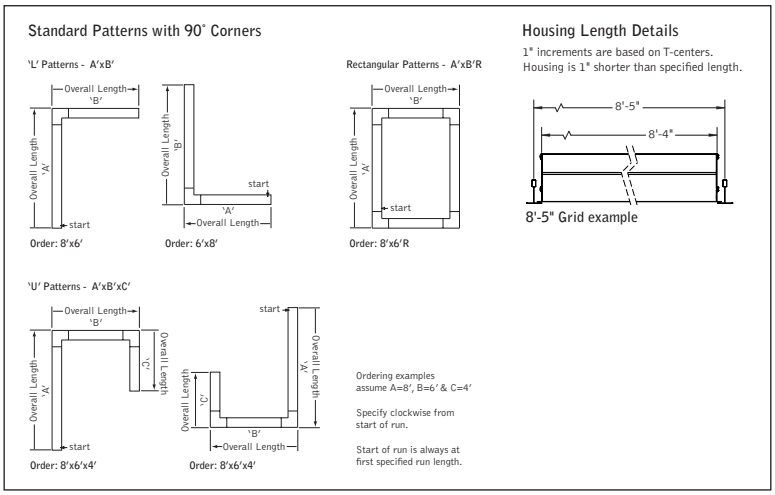

Batwing Lens


Regressed Lens

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

fixture: project:

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.

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
L90 > 61,000 hours
Calculated: L70 at > 480,000 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

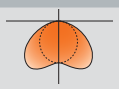
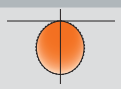
See page 3.

QS 10 DAY 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

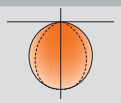
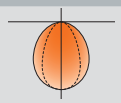
	FSM4L
Luminaire Series	
Seem 4 LED — FSM4L	
Shielding	_____
Batwing Lens — BW	
Flush Satin Lens — FL	
Regress Lens — SR	
Regress High Performance Lens — SRXP	
Lumen Output	_____
275 Lumens per foot (Not available with Lutron Drivers.) — 275LF	
375 Lumens per foot (Not available with LU5 & LH1 Drivers) — 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 (BW & FL Lens only. 6" increments. Patterns not available.) — P35K	
Circuits & Zones	_____
1 Circuit, non-emergency — 1C	
Consult Ordering Guide on page 5 for multiple circuiting and zoning options — _C_Z_DL	
Voltage	_____
120/277 UNV Volt — UNV	
Low Voltage — LV	
Control System & Dimming Level	_____
0-10V - 10% Dimming — LD1	
0-10V - 1% Dimming — L11	
Low Voltage, PoE compatible (No driver. Not available with EM or EC. LV Voltage only.) — LVN	
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	
Wattstopper DLM - 1% Dimming (3' minimum length.) — DLM1	
Ceiling Configuration	_____
Std. 15/16" Lay-in **or** Std. 15/16" Tegular — G1 **or** T1	
Std. 9/16" Lay-in **or** Std. 9/16" Tegular — G2 **or** T2	
9/16" Slot-tee Tegular — G3	
Tall 15/16" Lay-in **or** Tall 15/16" Tegular — G4 **or** T4	
Tall 9/16" Lay-in **or** Tall 9/16" Tegular — G5 **or** T5	
Node 9/16" Tegular — T6	
Factory Options (See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.)	
Chicago Plenum — CP	_____
Daylight Circuit — _DC	_____
Emergency Circuit — _EC	_____
Emergency Battery Pack† — _EM	_____
Emergency Control Device† — _ECD	_____
†(4' minimum. 120/277 Volt only. 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1. EM or ECD not available at corners.)	
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 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

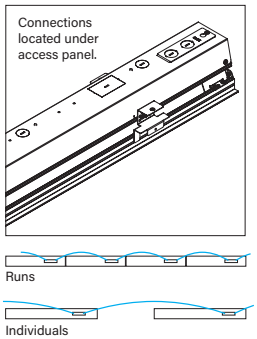
Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Preferred Light = 0.65, 90+ CRI = 0.87.
Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

CONNECTED™ SOLUTIONS

Seem® 4

LED

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.†

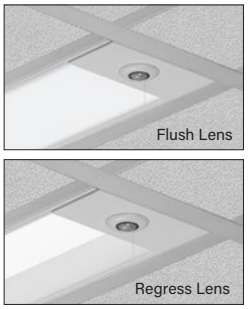


nLIGHT

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.

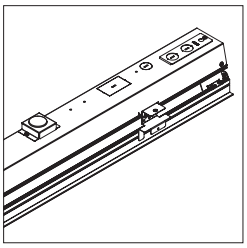


enlighted

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

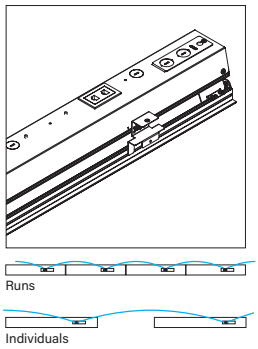


OSRAM

Connected Lighting Module (CLM) enables each luminaire to be independently controlled and configured. Communicates wirelessly with Daintree Networks®, 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.

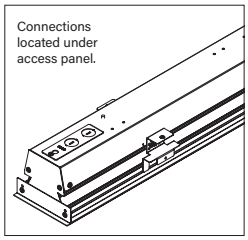


legrand® WATTSTOPPER®

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

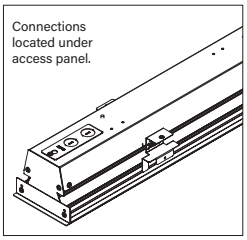
CAT-5 Cable provided by others. Serial labels will be provided on outside of luminaires and control unit.



LUTRON®

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®

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), Advance by Signify (0-10V)**
Enlighted Smart Sensor (ENL1)	SU-5E-IOT**	Enlighted RF	Enlighted	Integrated	Integrated	Yes	Wireless	**Advance by Signify,** Osram Dexal
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	**Advance by Signify,** 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.

Ordering Guide

Linear Circuitry, Zones & Factory Options

FOCAL POINT®

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

Refer to the run chart for standard run configurations, consult factory for custom configurations.

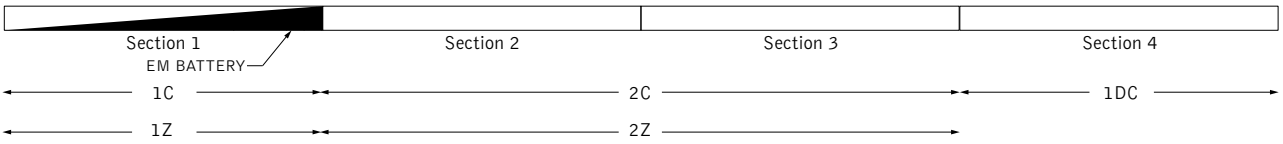
Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft **JOB NAME:** _____ **FIXTURE TYPE:** _____

	HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
						SEPARATE ELECTRICAL FEEDS			EM
			SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
EXAMPLE	1	8	1C	1Z					1EM
	2	8	2C	2Z					
	3	8	2C	2Z					
	4	8				1DC			
	Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	**DC = Daylight Circuit** Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	**EC = Emergency Circuit** Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	**EM = Emergency Battery** Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
- Limit of one EM or ECD per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Each DC, EC and ECD require an additional electrical feed.
- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options

FOCAL POINT®

WORKSHEET

TOTAL RUN LENGTH: _____ **JOB NAME:** _____ **FIXTURE TYPE:** _____

HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
					SEPARATE ELECTRICAL FEEDS			EM
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes		_C	_Z	_DL	_DC	_EC	_ECD	_EM

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

RUN CHART

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

Run length (ft)	Housing Configuration Section Lengths
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
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

Run length (ft)	Housing Configuration Section Lengths
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

Run length (ft)	Housing Configuration Section Lengths
45	8 + 8 + 8 + 8 + 8 + 8 + 5
46	8 + 8 + 8 + 8 + 8 + 8 + 6
47	8 + 8 + 8 + 8 + 8 + 8 + 7
48	8 + 8 + 8 + 8 + 8 + 8 + 8

Standard run configurations, consult factory for custom configurations.