

Seem® 4-LP

LED



flush lens



regress lens

SEEM 4 FAMILY COMPANIONS



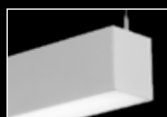
drywall ceiling



corners & patterns



perimeter

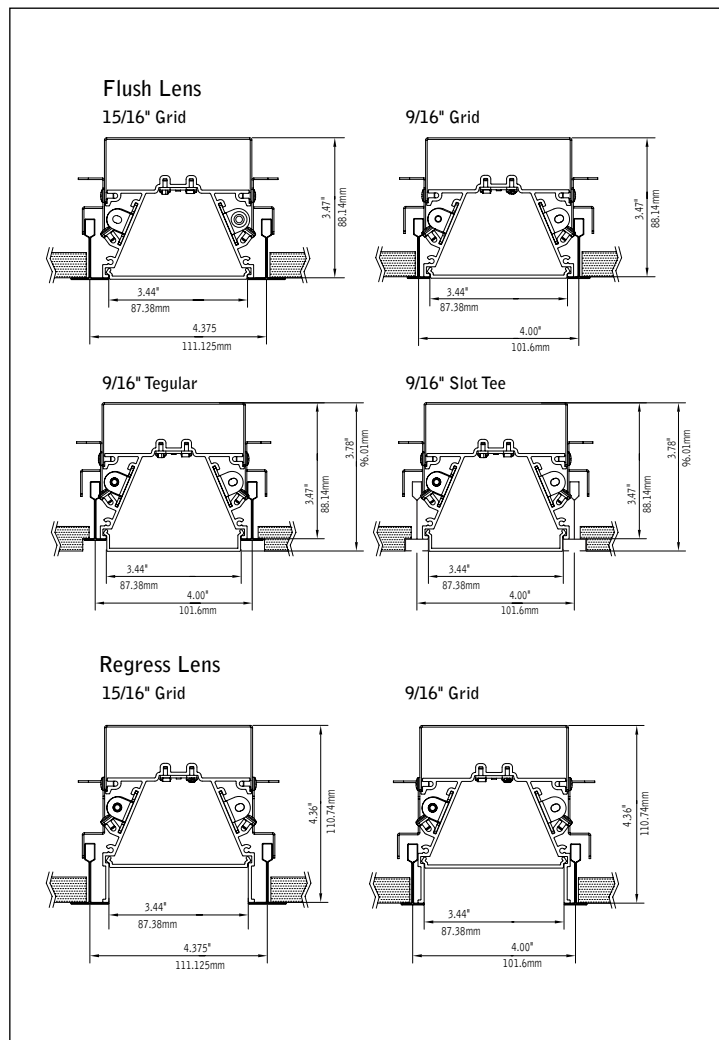


suspended



wall mount

DIMENSIONAL DATA



FEATURES

Low profile 3.6" housing depth on flush lens option and 4.5" housing depth on regress lens option.

Individual units or continuous runs in 6" increments.

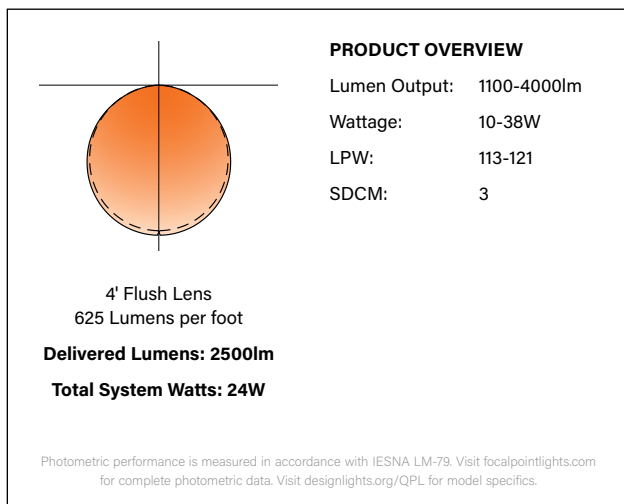
Compatible with common pre-engineered grid ceiling systems requiring luminaires fitting into a 4" slot.

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.

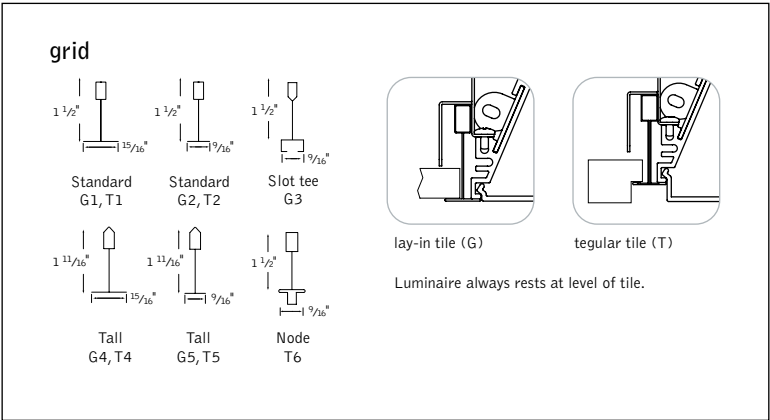
PERFORMANCE



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 or CRI>90, 3 SDCM. LED modules are replaceable from below the ceiling. Drivers are accessible from above the ceiling only.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Aluminum driver compartment. 4' unit weight: 11 lbs., 8' unit weight: 19 lbs.

Optic

Extruded acrylic lens .078" 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. Dimming range 100% to 10%. Power factor >.9.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 19.0ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFS1, NLT1, CLM1, NXE1, WLXP) 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 Calculated: L70 at > 447,000 hours
L90 > 61,000 hours L90 at > 110,000 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.


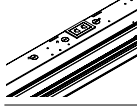





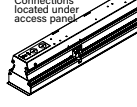

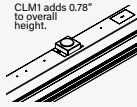
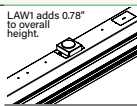


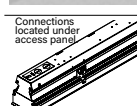

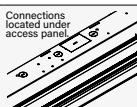



4' PERFORMANCE CHART

Lumen Output	Nominal Lumens	FL		RL	
		Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	9.0	122	9.5	116
375LF	1500	11.4	132	12.0	125
625LF	2500	18.2	137	19.4	129
875LF	3500	26.5	132	28.3	124
1000LF	4000	30.4	131	32.6	123

*Based on 3500K, 4' lengths. Regress Lens multiplier = 0.90. Lumen may vary +/-5%. Actual wattage may vary

ORDERING		
Luminaire Series	FSM4LP	
Seem 4-LP	FSM4LP	
Shielding		
Flush Satin Lens	FL	
Regress Lens	RL	
Lumen Output		
275 Lumens per foot (2' LD1 & L11 only, 3' minimum all other drivers.)	275LF	
375 Lumens per foot	375LF	
625 Lumens per foot	625LF	
875 Lumens per foot	875LF	
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	
Circuits & Zones		
1 Circuit, non-emergency	1C	
Consult Ordering Guide on page 4 for multiple circuiting and zoning options	_C_Z_DL	
Voltage		
120/277 UNV Volt	UNV	
347 Volt (LD1 driver only)	347	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
DALI 1% Dimming	D11	
Wattstopper DLM - 1% Dimming** (Not available with CP)	DLM1	
Wattstopper Fixture Sensor** Low Density - 1% Dimming See sensor layout guide	LMFS1	
Wattstopper Fixture Sensor** High Density - 1% Dimming See sensor layout guide	LMFS1	
Lutron Athena Wireless Node**	LAW1	
Lutron Athena Wireless Sensor** (Remote mounted sensor, See sensor layout guide)	LAWS	
Acuity nLight - 1% Dimming** (Not available with CP)	NLT1	
Encelium CLM Connected Lighting Module - 1% Dimming**	CLM1	
Current NX Enabled - 1% Dimming** (Not available with CP)	NXE1	
WaveLinX Pro - 1% Dimming** See sensor layout guide	WLXP	
** (3' minimum length, with ECD/EM - 7' minimum.) 1 (0-10V standard, consult factory for DALI)		
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 4 for ordering details for DC, EC, EM & ECD.)		
Chicago Plenum (Not available with flex whip)	CP	
Daylight Circuit	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack	_EM	
Emergency Control Device† (Adds 125" to overall height.) † (4' minimum, 120/277 Volt only)	_ECD	
6' New York City Flex Whip (120V)	FN1	
6' New York City Flex Whip (277V)	FN2	
6' Flex Whip	FW	
Finish		
Matte White Housing	WH	
Luminaire Length		
2'	2'	
2' 6"	2' 6"	
3'	3'	
4'	4'	
5'	5'	
6'	6'	
7'	7'	
7' 6"	7' 6"	
8'	8'	
Specify luminaire/row length in 6" increments (8' minimum row length)	_ft._in.	

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.†

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers	
 legrand [®] WATTSTOPPER [®]		DLM1	LMFC-011	DLM	DLM	Enabled ¹	No	Wired 	Advance by Signify, Optotronic by eldoLED
		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Integrated ²	No	Wireless	Advance by Signify
		LMFSD	LMFS-601						Optotronic by eldoLED (Dexal)
 COOPER Lighting Solutions		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Integrated ²	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
 CRESTRON		D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled ¹	No	Wired	eldoLED ECOdrive
		L11		0-10V					Advance by Signify
 ENCELIUM		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled ¹	No	Wireless	Optotronic by eldoLED Advance by Signify
		LAW1	A-WN-D01-RF-WH	DALI, 0-10V	Athena Wireless	Enabled ¹	No	Wireless	Advance by Signify
 LUTRON		LAWS	A-WN-D01-OCC-WH	DALI, 0-10V	Athena Wireless	Integrated ²	No	Wireless	Advance by Signify
		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled ¹	No	Wired	Lutron Hi-Lume
 nLIGHT		NLT1	nEPS-60-IO	nLight	nLight	Enabled ¹	No	Wired 	eldoLED ECOdrive, eldoLED SOLOdrive
	 NX LIGHTING CONTROLS	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled ¹	No	Wired 	Optotronic by eldoLED

*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. ‡Enabled: Fixture supplied with a Node/ Controller. Sensor to be provided by others. †Integrated: Fixture supplied with an installed Sensor.

Ordering Guide

Direct Only Linear Circuitry, Zones & Factory Options



HOW TO USE THIS GUIDE

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

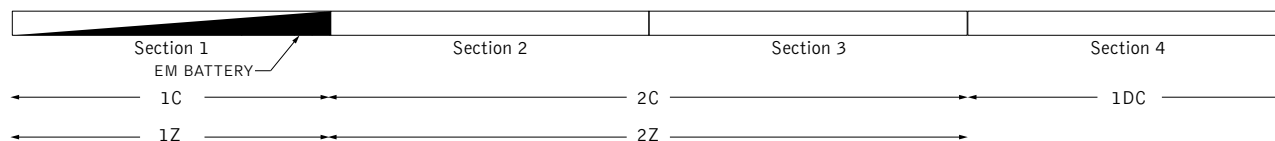
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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.

EXAMPLE	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	
	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

Z = Dimming Zone
Dimming Control Wires

DL = Daylight Zone
Daylight Dimming Control Wires

DC = Daylight Circuit
Switched Hot / Separate Neutral

EC = Emergency Circuit
Switched Hot / Separate Neutral

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®

TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			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								

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

Standard run configurations, consult factory for custom configurations.