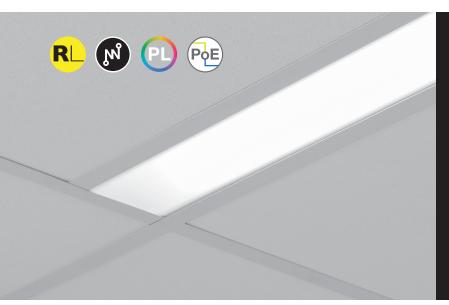
Seem[®] 4 Grid Ceiling LED











wall to ceiling companion



companion



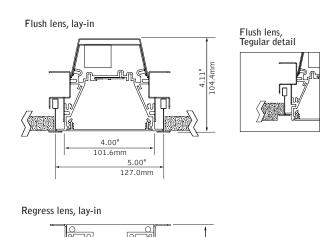


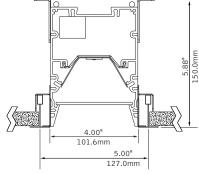


suspended

companion

DIMENSIONAL DATA





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.

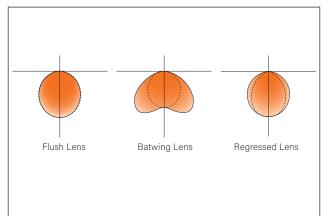
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

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

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

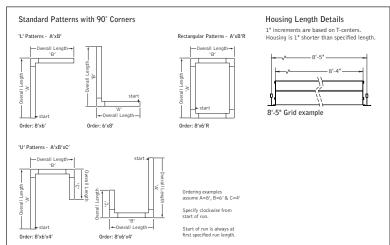
PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS



Photometric performance is measured in accordance with IESNA LM-79 Visit focalpointlights.com 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.

Flectrical

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, 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	Calculated: L70 at > 480,000 hours
	L90 > 61,000 hours	L90 at > 128,000 hours
Derived from	FPA TM-21 calculator. Based on typica	al 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.

Warrantv

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

4' PERFORMANCE CHART

10 DAY

See page 3.

ORDERING Luminaire Series FSM4L Seem 4 LED Shielding Batwing Lens BW FL SR Flush Satin Lens **Regress Lens Regress High Performance Lens** Lumen Output (Not available with LH1.) 375 Lumens per fo (Not available with LH1.) 625 Lumens per foot (BW, FL & SR 3' minimum with LH1. SRXP 4' minimum with LH1. Patterns not available with LH1.) 875 Lumens per foot (SR & SRXP 3' minimum with LH1. SR & SRXP with LH1 not available on patterns.) 1000 Lumens per foot 1125 Lumens per foot 1125LF 1250 Lumens per foot **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. **Circuits & Zones** 1 Circuit, non-emergency Consult Ordering Guide on page 5 for multiple circuiting and zoning options _C_Z_DL Voltage Low Voltage LV **Control System & Dimming Level** Low Voltage, PoE compatible LVN (No driver. Not available with EM or EC. LV Voltage only. Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming LH1 DALI 1% Dimming (1000LF max.)* D11 Acuity nLight - 1% Dimming (Not available with CP) Enlighted Smart Sensor - 1% Dimming NLT1 ENL1 Encelium CLM Connected* Lighting Module - 1% Dimming CLM1 (Compatible with Encelium X Light Manag Wattstopper DLM - 1% Dimming DLM1 (3' minimum length. Patterns not available. **Ceiling Configuration** Std. 15/16" Lay-in **or** Std. 15/16" Tegular Std. 9/16" Lay-in **or** Std. 9/16" Tegular G1 or T1 or T2 9/16" Slot-tee Tegular Tall 15/16" Lay-in or Tall 15/16" Tegular Tall 9/16" Lay-in or Tall 9/16" Tegular G4 or T4 or T5 Node 9/16" Tegular Factory Options (See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.) (Not available with Flex Whip) Daylight Circuit DC **Emergency Circuit** EC Emergency Battery Pack[†] Emergency Control Device⁺ ECD [†](4' minimum. 6' minimum with patterns Not available at corners. 120/277 Volt only 7' minimum with CLM1, DLM1, ENL1 & NLT1.) 6' New York City Flex Whip (120V) 6' New York City Flex Whip (277V) FNY2 6' Flex Whip FW Finish Matte White Housing WH ft in Luminaire Length Specify luminaire/row 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. Individual units cannot be joined in the field) ft in **Pattern Options** (4' minimum length) 'L' pattern A' x B' 'U' pattern A' x B' x C'



A' x B' R

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.

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%.



Seem[®] 4

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.[†]



Runs

Individuals



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-60-10

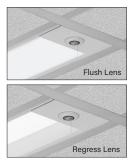
CAT-5 Cable provided by others.Serial labels will be provided on outside of luminaires and control unit.

ENCELIUM

Encelium's Connected Lighting Module (CLM) is fully compatible with the Encelium X Light Management System, as well as with 0-10V and DALI based LED drivers to allow for individual luminaire control, including on/off and dimming functionalities, occupancy sensing, and multi-zone daylight harvesting.

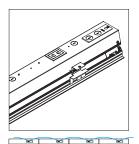
Encelium CLM - 1% Dimming (CLM1) Encelium Model #ZBHA-CLM-DIM-ENC

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-5E-IOT



Llegrand

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.



UTRON

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



Individuals

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, Optotronic by eldoLED
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	Advance by Signify, Optotronic by eldoLED
Lutron EcoSystem (LH1)	LDE1**	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	Enabled	No	Wired	Lutron Hi-Lume
Encelium CLM Connected Lighting Module (CLM1)	ZBHA-CLM- DIM-ENC*	ZigBee	Encelium X Light Management System	Enabled	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify

*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





HOW TO USE THIS GUIDE

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

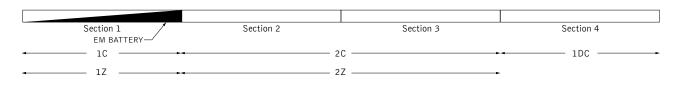
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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:				
		SHA	SHARED ELECTRICAL FEED,		FACTORY OPTIONS				
HOUSING	SECTION		NORMAL POWER			SEPARATE ELECTRICAL FEEDS			
SECTION	LENGTH	SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM	
1	8	1C	1Z					1EM	
2	8	2C	2Z						
3	8	2C	2Z						
4	8				1DC				
Totals / Ordering Codes		2C	2Z		1DC			1EM	
	HOUSING SECTION	HOUSING SECTIONSECTION LENGTH18283848	HOUSING SECTION SECTION LENGTH SWITCHING CIRCUIT 1 8 1C 2 8 2C 3 8 2C 4 8 1	HOUSING SECTION LENGTHSECTION SWITCHING CIRCUITDIMMING ZONE181C1Z282C2Z382C2Z4844	HOUSING SECTIONSECTION LENGTHSWITCHING SWITCHING CIRCUITDIMMING ZONEDAYLIGHT ZONE181C1Z282C2Z382C2Z4811	HOUSING SECTION LENGTHSHARED ELECTRICAL FEED, NORMAL POWERSEPARATESUTCHING CIRCUITDIMMING ZONEDAYLIGHT ZONEDAYLIGHT CIRCUIT181C1Z1282C2Z2382C2Z148111	HOUSING SECTION FACTORY OPTION SECTION SECTION SWITCHING DIMMING ZONE DAYLIGHT CIRCUIT EMERGENCY CIRCUIT 1 8 1° 1° 2° 8 2° 2° 1°	$ \begin{array}{c c c c c c } & & & & & & & & & & & & & & & & & & &$	

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



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

			JOB NAME:			FIXTURE TYPE:				
			SHAR	ED ELECTRICAL	FEED,	FACTORY OPTIONS				
	HOUSING	SECTION	NORMAL POWER			SEPARATE ELECTRICAL FEEDS				
	SECTION	LENGTH	SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM	
	1									
	2									
	3									
	4									
	5									
	6									
	7									
WOF	8									
WORKSHEET	9									
Ë	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	Totals / Orde	ering Codes								

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

RUN CHART

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	Standard run con	figurations, consult factory for custom
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4	configurations.	ingulations, consult labiony for clastori