

Seem® 4-LP

LED



flush lens



regress lens

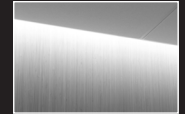
SEEM 4 FAMILY COMPANIONS



drywall ceiling



corners & patterns



perimeter

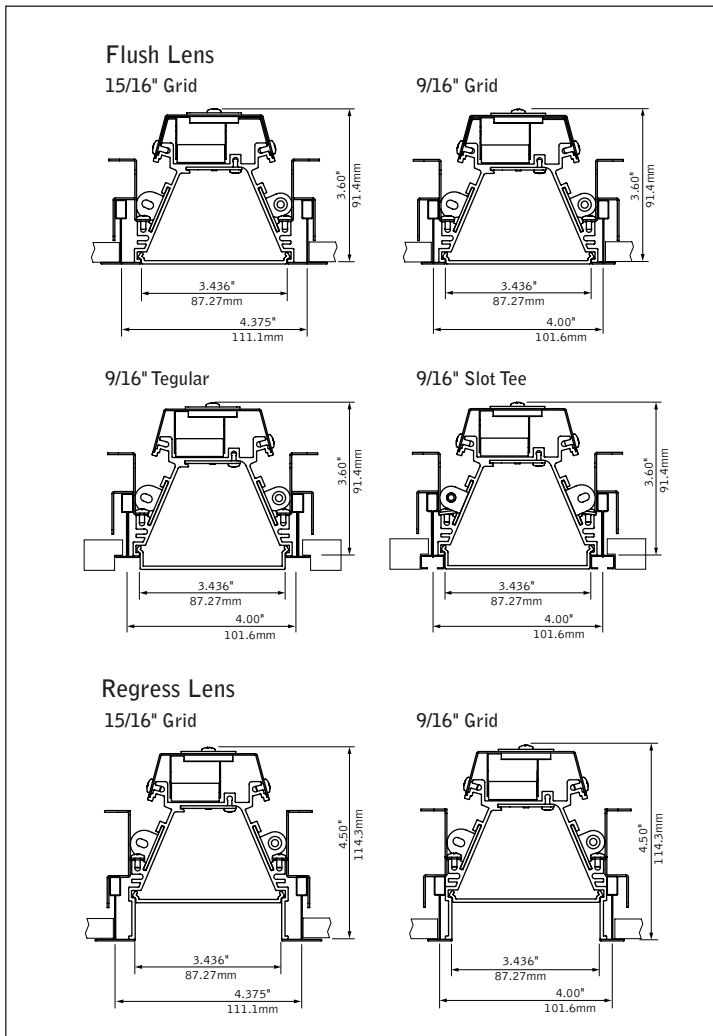


suspended



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.

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

PERFORMANCE

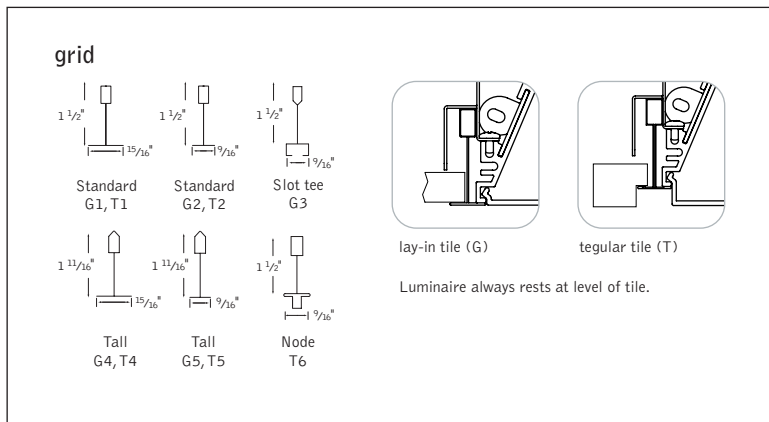
4' Flush Lens
625 Lumens per foot
Delivered Lumens: 2500lm
Total System Watts: 24W

PRODUCT OVERVIEW

Lumen Output: 1100-4000lm
 Wattage: 10-38W
 LPW: 113-121
 SDCM: 3

Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data. Visit designlights.org/QPL for model specifics.

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 (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 > 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

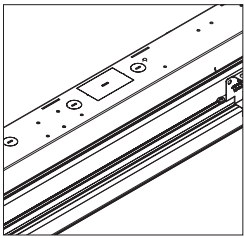
| Shielding | Lumens per Foot | Delivered Lumens | Tested System Watts | LPW |
|------------|-----------------|------------------|---------------------|-----|
| Flush Lens | 275LF | 1100 | 10 | 113 |
| | 375LF | 1500 | 14 | 117 |
| | 625LF | 2500 | 24 | 121 |
| | 875LF | 3500 | 34 | 119 |
| | 1000LF | 4000 | 38 | 117 |

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Regress lens = 0.90, Preferred Light = 0.65, 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

ORDERING

| Luminaire Series | FSM4LP |
|---|-------------|
| Seem 4-LP | FSM4LP |
| Shielding | |
| Flush Satin Lens | FL |
| Regress Lens | RL |
| Lumen Output | |
| 275 Lumens per foot <small>(2' LD1 & L11 only. 3' minimum all other drivers.)</small> | 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 |
| 3500K, Preferred Light <small>(Flush lens only)</small> | P35K |
| 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 <small>(LD1 driver only)</small> | 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 |
| AcuitynLight - 1% Dimming <small>(3' minimum length. Not available with CP)</small> | NLT1 |
| Enlighted Smart Sensor - 1% Dimming <small>(3' minimum length. Grid only)</small> | ENL1 |
| Encelium CLM Connected Lighting Module - 1% Dimming <small>(3' minimum length. Increases height by 0.73' at module location. Compatible with Encelium X Light Management System)</small> | CLM1 |
| Wattstopper DLM - 1% Dimming <small>(3' minimum length)</small> | 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 <small>(See Ordering Guide on page 4 for ordering details for DC, EC, EM & ECD.)</small> | |
| Chicago Plenum | CP |
| Daylight Circuit | _DC |
| Emergency Circuit | _EC |
| Emergency Battery Pack ¹ | _EM |
| Emergency Control Device ¹ <small>(Adds 125" to overall height.) ¹4' minimum. 120/277 Volt only. ²7' minimum length for CLM1, DLM1, ENL1 & NLT1</small> | _ECD |
| 6' New York City Flex Whip (120V) | FNY1 |
| 6' New York City Flex Whip (277V) | FNY2 |
| 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 | _ft. _in. |
| <small>(8' minimum row length)</small> | |

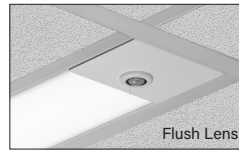
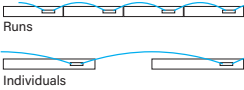
Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally 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.†



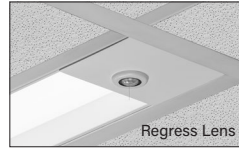
nLight® provides a two-way wired digital lighting system allowing for on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting.

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

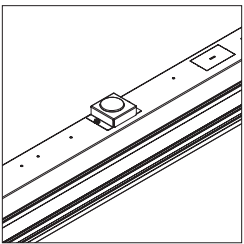


Regress Lens



Enlighted smart sensor allows for occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Communicates wirelessly with the Enlighted network.

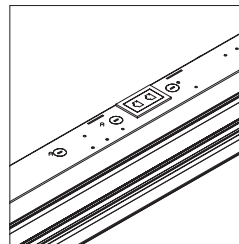
Enlighted Smart Sensor - 1% Dimming (ENL1)
Enlighted Model #SU-5E-IOT



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

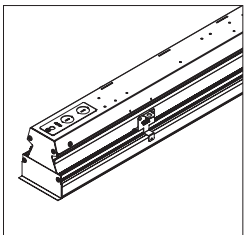
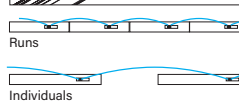
Serial labels will be provided on outside of luminaires and control unit.



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.

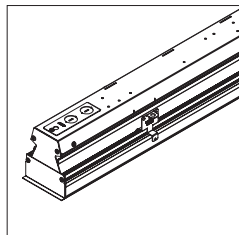
Wattstopper DLM - 1% Dimming (DLM1)
Wattstopper Model #LMFC-011

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



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



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 Crestron Züm™ 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 Züm 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

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.

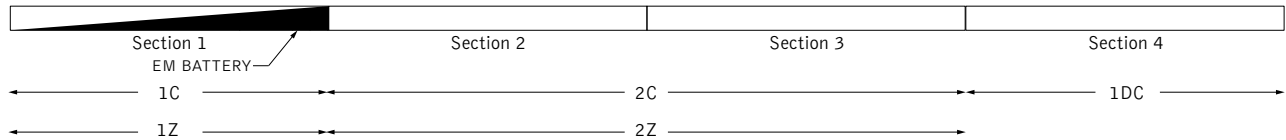
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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.

| TOTAL RUN LENGTH: <u>32ft</u> | | JOB NAME: _____ | | | FIXTURE TYPE: _____ | | | |
|--------------------------------|----------------|--------------------------------------|--------------|---------------|---------------------------|-------------------|-----|------------|
| HOUSING SECTION | SECTION LENGTH | SHARED ELECTRICAL FEED, NORMAL POWER | | | FACTORY OPTIONS | | | |
| | | SWITCHING CIRCUIT | DIMMING ZONE | DAYLIGHT ZONE | SEPARATE ELECTRICAL FEEDS | | | EM |
| | | | | | 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 | 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



| 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 | SEPARATE ELECTRICAL FEEDS | | | |
| 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.