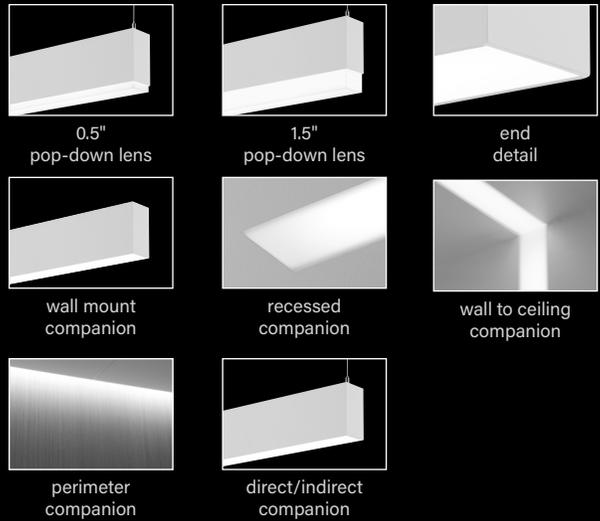
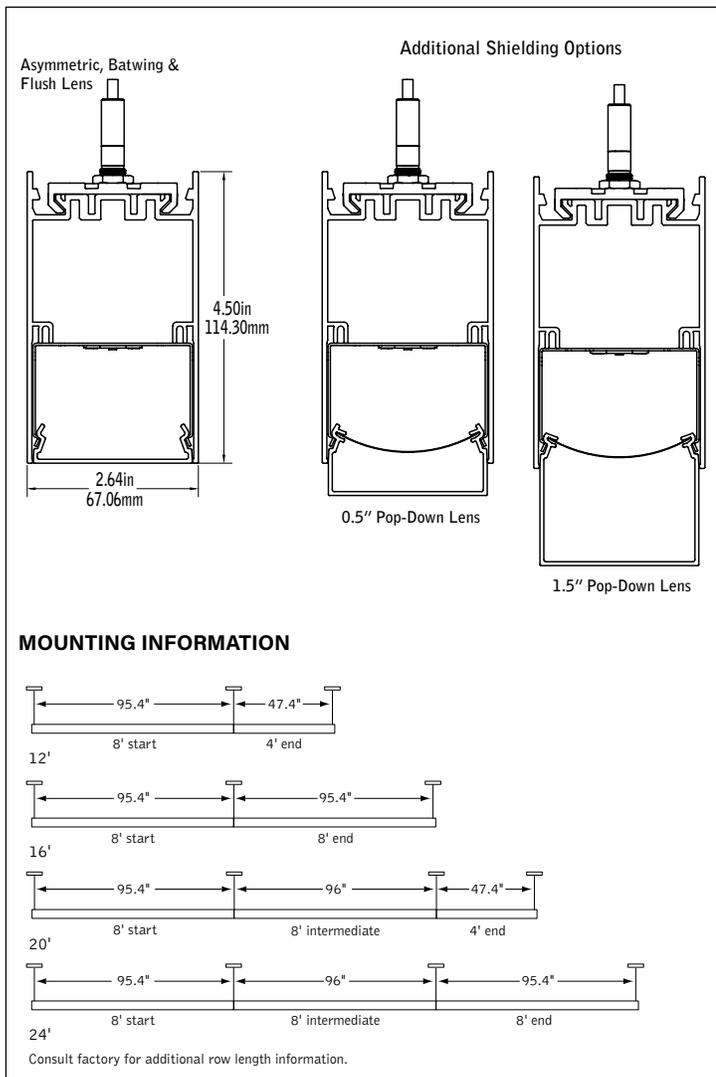


Seem[®] 2

LED



DIMENSIONAL DATA



FEATURES

Narrow 2.5" linear direct LED with Asymmetric, Batwing, Flush, 0.5" or 1.5" Pop-Down lens.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

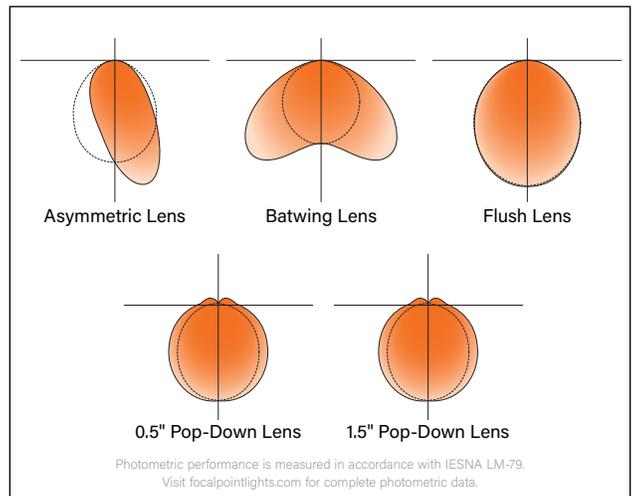
Individual units and continuous runs in 1' increments.

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

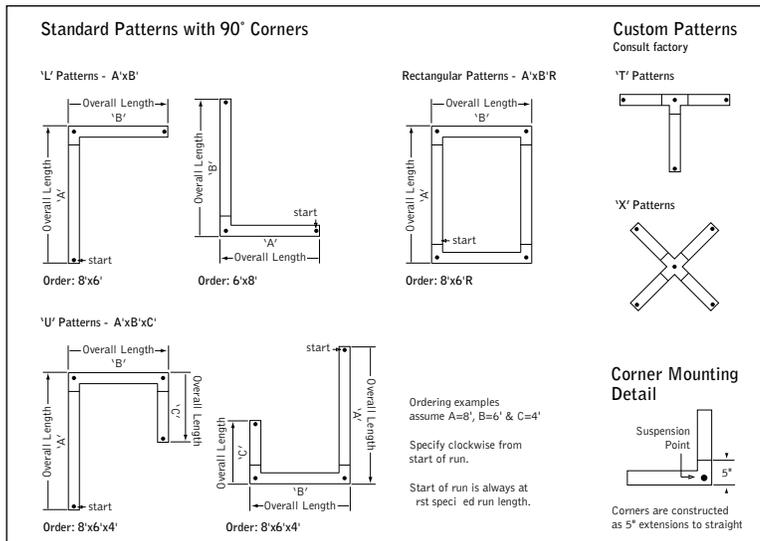
Connected Solutions: Integrates with wired and wireless building lighting control systems.

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

DISTRIBUTIONS



MOUNTING INFORMATION



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. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. Cast aluminum end caps. 8' unit weight: 30 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in matte white powder coat. Extruded acrylic lens 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. 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: 20 ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFSD, NLT1, ENL1, 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. Canopy and cord white as standard.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 385,000 hours
 L90 at >61,000 hours L90 at 103,000 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. Refer to Quickship Guide for complete details including EM/EC options.

ORDERING

Luminaire Series

See **2 LED**

FSM2LS

Shielding

Asymmetric Lens AS

Batwing Lens BW

Flush Satin Lens FL

0.5" Pop-Down Lens PD05

1.5" Pop-Down Lens PD15

Lumen Output

125 Lumens per foot 125LF

250 Lumens per foot 250LF

375 Lumens per foot 375LF

500 Lumens per foot 500LF

625 Lumens per foot 625LF

750 Lumens per foot 750LF

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 P35K

Circuits & Zones

1 Circuit, non-emergency 1C

Consult Ordering Guide on page 5 for multiple circuiting and zoning options

Voltage

120/277 UNV Volt UNV

347V 347

(LD1 & L11 only)

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

DALI 1% Dimming D11

(For 750LF, 875LF & 1000LF consult factory.)

Wattstopper DLM - 1% Dimming* DLM1

Wattstopper Fixture Sensor**1 LMFS1

Low Density - 1% Dimming

See sensor layout guide

Wattstopper Fixture Sensor**1 LMFSD

High Density - 1% Dimming

See sensor layout guide

Acuity nLight - 1% Dimming* NLT1

Enlighted Smart Sensor - 1% Dimming* ENL1

See sensor layout guide

Encelium CLM Connected Lighting Module** CLM1

1% Dimming

Current NX Enabled - 1% Dimming* NXE1

WaveLinX Pro - 1% Dimming**1 WLXP

See sensor layout guide

** (3' minimum length, with ECD/EM - 7' minimum.)

1 (Not available with pop-down lenses.)

Mounting

24" Cable Suspension C24__

48" Cable Suspension C48__

96" Cable Suspension C96__

(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: C24WH.)

(Specify one of the following in place of "C" J - for 2' canopies at non-feed locations. CS - for sloped ceiling applications.)

Surface Mount SM

(Not available with CLM1, DLM1 NLT1 or NXE1)

Factory Options

Black Cord BKCD

Daylight Circuit _DC

Emergency Circuit _EC

Emergency Battery Pack† _EM

Emergency Control Device† _ECD

† (3' minimum, 120/277 Volt only.)

Finish

Black BK

Titanium Silver TS

Matte White Housing WH

Luminaire Length

Specify luminaire/row length in 1' increments X'

(2' minimum. Leave blank for patterns. Smaller increments available, consult factory.)

Pattern Options

(2' 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)

FSM2LS

4' PERFORMANCE CHART

| Lumen Output | Delivered Lumens | Tested System Watts | Lumens Per Watt (LPW) | | | | |
|--------------|------------------|---------------------|--|--|--|--|--|
| | | |  AS |  BW |  FL |  PD05 |  PD15 |
| 125LF | 500 | 6 | 95 | 91 | 88 | 81 | 82 |
| 250LF | 1000 | 10 | 113 | 108 | 103 | 94 | 98 |
| 375LF | 1500 | 14 | 120 | 116 | 105 | 101 | 100 |
| 500LF | 2000 | 19 | 123 | 118 | 107 | 103 | 102 |
| 625LF | 2500 | 24 | 121 | 116 | 105 | 101 | 101 |
| 750LF | 3000 | 28 | 122 | 117 | 108 | 101 | 100 |
| 875LF | 3500 | 34 | 120 | 115 | 104 | 100 | 100 |
| 1000LF | 4000 | 39 | 119 | 114 | 105 | 101 | 100 |

Based on 3500K, 4' length. Lumen multipliers: Preferred Light = 0.65, 90 CRI = 0.87.
 Delivered lumens 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.†

| Connected Solution | Ordering Code | Model #** | Protocol | Compatible Networks* | Occupancy & Daylight | Temperature Reporting | Communication to Luminaire | Drivers |
|--|---------------|---------------------|-------------------|--|----------------------|-----------------------|--|---|
| | DLM1 | LMFC-011 | DLM | DLM | Enabled | No | Wired | Advance by Signify. Optotronic by eldoLED |
| | LMFS1 | LMFS-601 & LMFI-111 | DLM Wireless | DLM | Enabled | No | Wireless | Advance by Signify |
| | LMFSD | LMFS-601 | | | | | | Optotronic by eldoLED (Dexal) |
| | WLXP | OEM-WAA | WaveLinx Wireless | WaveLinx Pro Trellix | Enabled | No | Wireless (WaveLinx Pro Wireless Area Controller) | Advance by Signify |
| | D11 | Specified Driver | DALI | Crestron Züm Wireless & SpaceBuilder | Enabled | No | Wired | eldoLED ECOdrive |
| | L11 | | 0-10V | | | | | Advance by Signify |
| | CLM1 | ZBHA-CLM-DIM-ENC | ZigBee | Encelium X Light Management System | Enabled | No | Wireless | Optotronic by eldoLED Advance by Signify |
| | ENL1 | SU-5E-IOT | Enlighted RF | Enlighted | Integrated | Yes | Wireless | Advance by Signify |
| | LH1 | LDE1 | EcoSystem | Quantum, Energi Savr Node, Energi TriPak | Enabled | No | Wired | Lutron Hi-Lume |
| <small>Connections located under access panel.</small> | NLT1 | nEPS-60-IO | nLight | nLight | Enabled | No | Wired | eldoLED ECOdrive, eldoLED SOLOdrive |
| | | | | | | | Wireless | |
| | NXE1 | NXFM-LV | NX | NX Distributed Intelligence | Enabled | 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.

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.

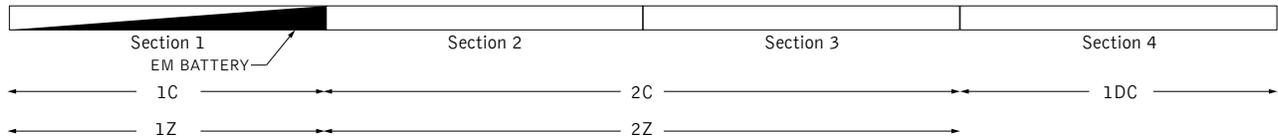
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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.

| 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



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 | 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.