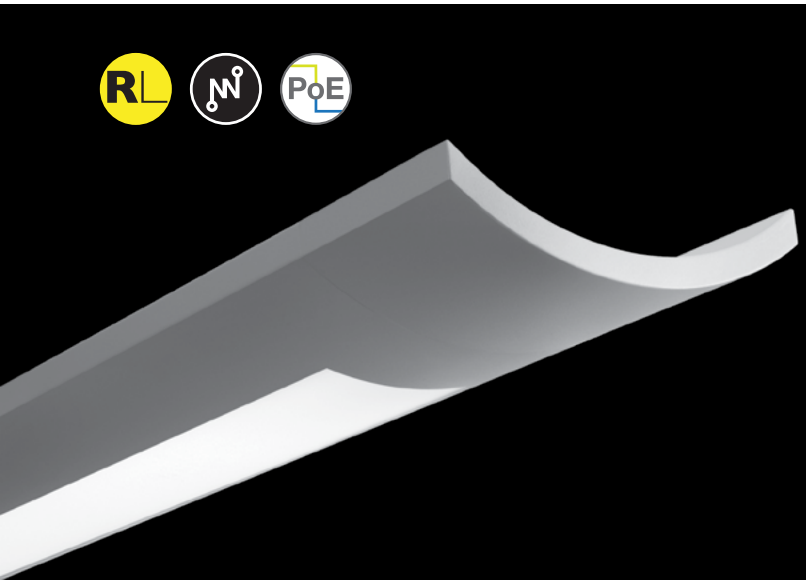
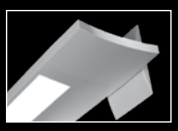
# Verve™ IV

**LED**

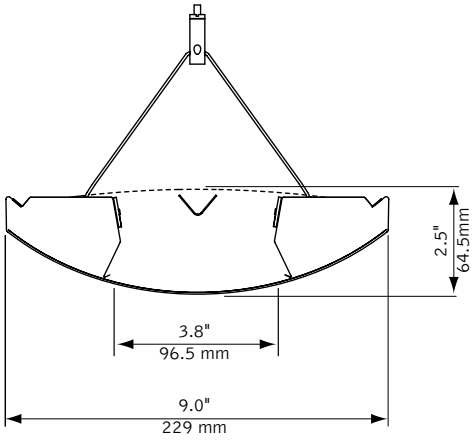
FOCAL POINT®



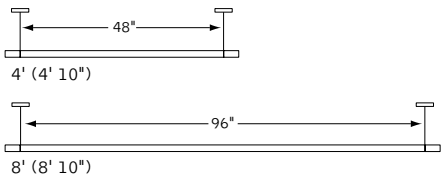


wall mount
companion

## DIMENSIONAL DATA




fixture information




## FEATURES

Suspended linear direct/indirect LED with frosted lens.

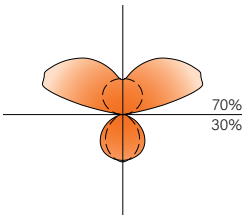
One-piece steel housing with 5" die-cast end caps

Verve IV is an excellent choice for commercial and educational facilities.

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.

## PERFORMANCE




4' unit
Nominal output:
750 Lumens per foot

**Delivered Lumens: 3000lm**

**Total System Watts: 25W**

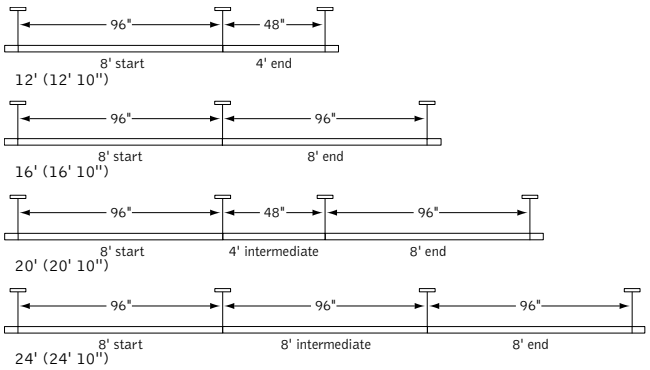
**PRODUCT OVERVIEW**

| | |
|---|---|
| Lumen Output: | 3000-5000lm |
| Wattage: | 25-39W |
| LPW: | 118-128 |
| SDCM: | 3 |

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

fixture: project:

## SUSPENSION INFORMATION




Consult factory for additional row length information.

## SPECIFICATIONS

### LED Systems

Linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. Available in 3000K, 3500K, 4000K with CRI>80, 3SDCM. Contact factory for additional color temperature and CRI options. LED boards and drivers are replaceable.

### Construction

One-piece 20 Ga. steel housing. Die-cast 5" end cap standard. For row installation, internal brackets form hairline joint. Standard lengths are available in 4' and 8'. All luminaires are provided with Y-cable suspension mounted on 48" or 96" centers. 4' unit weight: 20 lbs., 8' unit weight: 30 lbs.

### Optic

Reflector fabricated of 22 Ga. steel finished in high reflectance matte white. 24 Ga. steel beam softening filter finished in matte white powder coat. .010" thick acrylic lens.

### 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—12 watts for 90 minutes. Maximum mounting height: 12.4ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFSD, NLT1, CLM1, NXE1) shipped standard with leads to connect UL924 compliant device, by others. See EM/EC Guide on page 4 for default locations and ordering details.

### 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 finished in Matte Satin White.

### Lumen Maintenance

Reported: L70 at >60,000 hours
L80 at >60,000 hours

Calculated: L70 at 162,000 hours
L80 at 102,000 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

| Lumens Per Foot | Delivered Lumens | System Watts | LPW |
|---|---|---|---|
| 750LF | 3000 | 25 | 120 |
| 875LF | 3500 | 29 | 121 |
| 1000LF | 4000 | 34 | 118 |
| 1125LF | 4500 | 36 | 125 |
| 1250LF | 5000 | 39 | 128 |

Based on Frosted Lens 70 indirect / 30 direct (FL70), 3500K. Shielding Multipliers: FL40 - 0.90, RB - 1.04. Color Temperature multipliers: 3000K - 1.035, 4000K - 0.975. *Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

## ORDERING

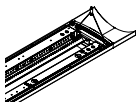
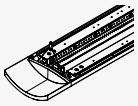
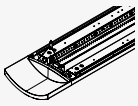
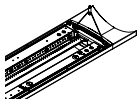
| | | |
|---|---|---|
| **Fixture Series** | | **FV4LS** |
| Verve IV LED | FV4LS | |
| **Shielding** | | _____ |
| Frosted Lens - 70 Indirect / 30 Direct Distribution | FL70 | |
| Frosted Lens - 40 Indirect / 60 Direct Distribution | FL40 | |
| **Lumen Output** | | _____ |
| 750 Lumens per foot | 750LF | |
| 875 Lumens per foot | 875LF | |
| 1000 Lumens per foot | 1000LF | |
| 1125 Lumens per foot | 1125LF | |
| 1250 Lumens per foot | 1250LF | |
| **Color Temperature** | | _____ |
| 3000K | 30K | |
| 3500K | 35K | |
| 4000K | 40K | |
| **Circuits** | | **1C** |
| Single Circuit | 1C | |
| **Voltage** | | _____ |
| 120/277 UNV Volt | UNV | |
| 347 Volt (LD1 only) | 347 | |
| 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 | |
| DALI - 1% Dimming | D11 | |
| Step Dimming (Not available with 750LF) | SD5 | |
| Wattstopper DLM - 1% Dimming | DLM1 | |
| Wattstopper Fixture Sensor* Low Density – 1% Dimming (20' run maximum.) | LMFS1 | |
| Wattstopper Fixture Sensor* High Density – 1% Dimming (20' run maximum.) | LMFSD | |
| Acuity nLight - 1% Dimming | NLT1 | |
| Encelium CLM Connected Lighting Module - 1% Dimming | CLM1 | |
| Current NX Enabled – 1% Dimming | NXE1 | |
| *See sensor layout guide | | |
| **Mounting** | | _____ |
| 24" Cable Suspension | C24 | |
| 48" Cable Suspension | C48 | |
| 96" Cable Suspension (Add "P" for Chicago plenum. Eg: CP12) (Specify one of the following in place of "C" J - for 2" canopies at non-feed locations. CS - for sloped ceilings.) | C96 | |
| **Factory Options** | | |
| Emergency Battery Pack (120/277V only) | _EM | _____ |
| Emergency Circuit See EM/EC Guide for default locations and ordering details.) | _EC | _____ |
| | | _____ |
| Dust Cover | DST | _____ |
| **Finish** | | _____ |
| Titanium Silver | TS | |
| Matte Satin White | WH | |
| **Fixture Run Length** | | _____ |
| 4' | 4' | |
| 8' | 8' | |
| 12' (8'+4') | 12' | |
| 16' (8'+8') | 16' | |
| 20' (8'+4'+8') | 20' | |
| 24' (8'+8'+8') (Longer run lengths available in 4' increments.) | 24' | |

CONNECTED® SOLUTIONS

# Verve™ IV

**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.†

| Connected Solution | | Ordering Code | Model #** | Protocol | Compatible Networks* | Occupancy & Daylight | Temperature Reporting | Communication to Luminaire | Drivers |
|---|---|---|---|---|---|---|---|---|---|
| legrand® WATTSTOPPER® |  | 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)** |
| CRESTRON |  | D11 | Specified Driver | WaveLinx Wireless | Crestron Zūm Wireless & SpaceBuilder | Enabled | No | Wired | **eldoLED ECOdrive** |
| | | L11 | | | | | | | **Advance by Signify** |
| ENCELIUM |  | CLM1 | ZBHA-CLM-DIM-ENC | ZigBee | Encelium X Light Management System | Enabled | No | Wireless | **Optotronic by eldoLED** Advance by Signify |
| LUTRON |  | LH1 | LDE1 | EcoSystem | Quantum, Energi Savr Node, Energi TriPak | Enabled | No | Wired | **Lutron Hi-Lume** |
| nLIGHT |  | NLT1 | nEPS-60-IO | nLight | nLight | Enabled | No | Wired  | **eldoLED ECOdrive,** eldoLED SOLOdrive |
| NX LIGHTING CONTROLS |  | 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.

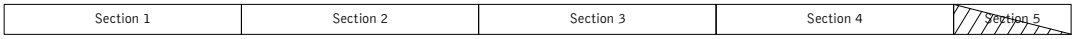
# EM/EC Guide

**VERVE IV LED - FV4LS**

## DEFAULT LOCATIONS

- By default, EM/EC are located at the end (last section) of a run when one EM/EC location is specified, and at the start and end when two locations are specified.
- EM/EC illuminate entire sections from 4' to 8' in length.
- Feed location is at start of run. All EC's are fed individually at the end of each fixture segment.

1 EM/EC – END OF RUN




Ordering example: FV4LS-FL70... **1EM**-WH-36ft

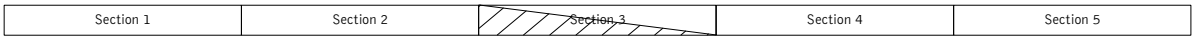
2 EM/EC – START & END OF RUN


Ordering example: FV4LS-FL70... **2EM**-WH-36ft

## ALTERNATE LOCATIONS AND QUANTITIES

- If more than two locations are required, or specific locations within run need to be specified, indicate in the ordering string.

ONE EM IN 3RD SECTION




Ordering example: FV4LS-FL70... **1EM-3**-WH-40ft

THREE EM IN 1ST, 3RD AND 6TH SECTIONS


Ordering example: FV4LS-FL70... **3EM-1-3-6**-WH-48ft

## CUSTOM LENGTHS

- If partial illumination of emergency section is required, indicate quantity in ordering string and partial illumination in Order Notes. Drawing required.
- Longer lead times may apply.

| Run length (ft) | Housing Configuration Section Lengths |
|---|---|
| 12 | 8 + 4 |
| 16 | 8 + 8 |
| 20 | 8 + 4 + 8 |
| 24 | 8 + 8 + 8 |
| 28 | 8 + 8 + 8 + 4 |

| Run length (ft) | Housing Configuration Section Lengths |
|---|---|
| 32 | 8 + 8 + 8 + 8 |
| 36 | 8 + 8 + 8 + 8 + 4 |
| 40 | 8 + 8 + 8 + 8 + 8 |
| 44 | 8 + 8 + 8 + 8 + 8 + 4 |
| 48 | 8 + 8 + 8 + 8 + 8 + 8 |

Standard run configurations, consult factory for custom configurations.