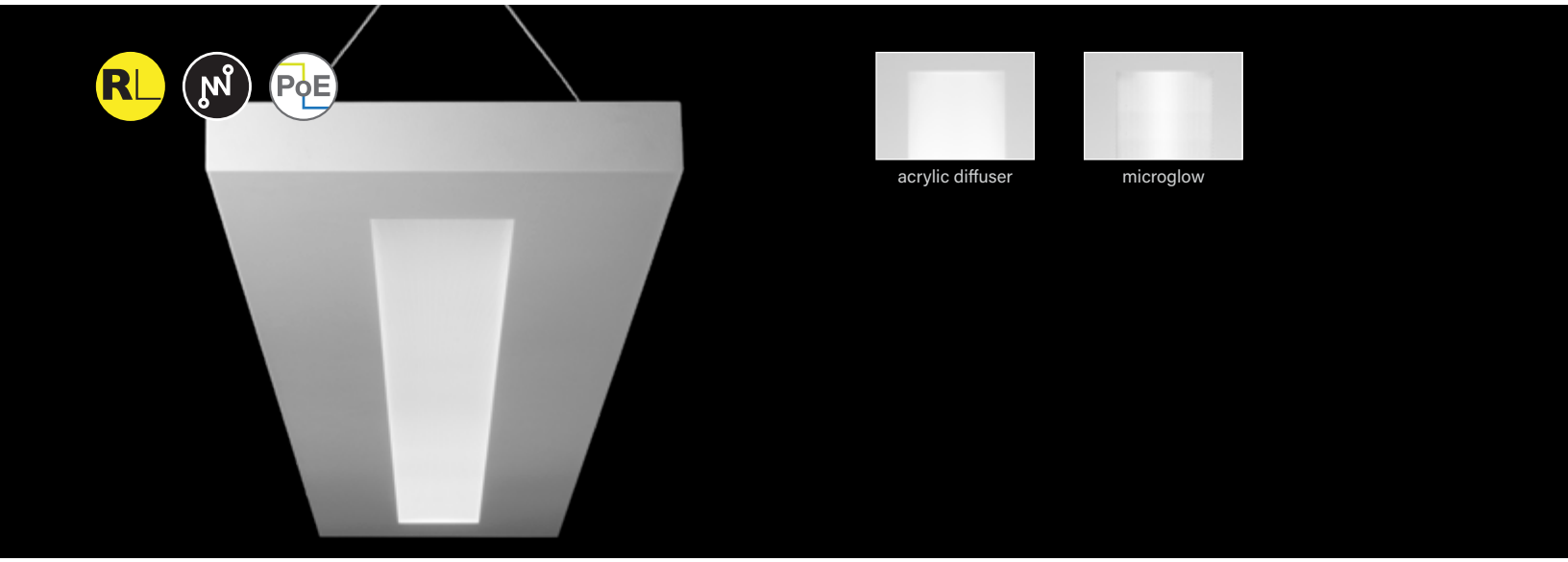
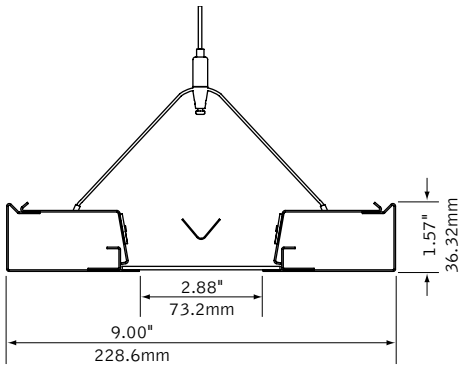
Twelve™

LED

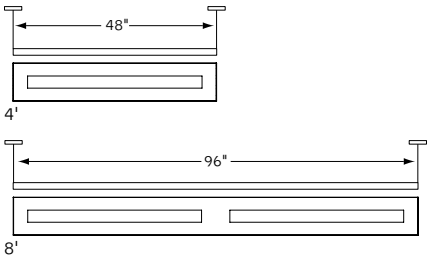
FOCAL POINT®



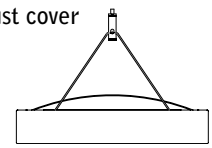
DIMENSIONAL DATA



fixture information



dust cover



FEATURES

Low profile suspended direct/indirect LED luminaire.

Excellent choice for lower ceiling applications and areas where ceiling uniformity is important.

Features Gradient Optic which softens cut-off line on surrounding walls and other vertical structures.

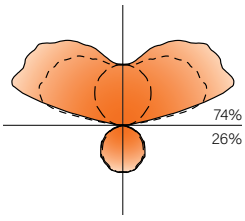
MicroGlow lens offers cutoff & brightness control to support comfortable environments.

35% energy savings over comparable fluorescent versions.

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, Acrylic Diffuser
Nominal output:
1000 Lumens per foot

Delivered Lumens: 4000lm

Total System Watts: 34W

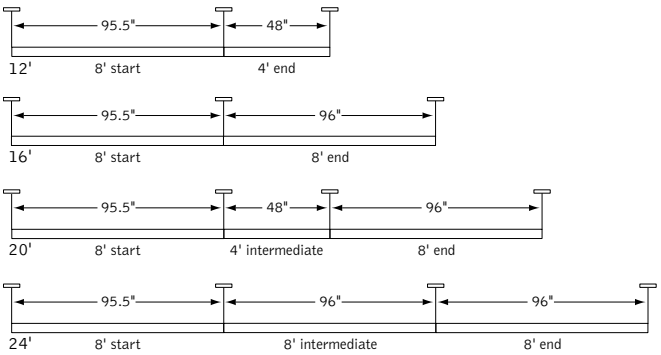
PRODUCT OVERVIEW

Lumen Output:	3000-5000lm
Wattage:	25-43W
LPW:	115-121
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.

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. LED boards and drivers are replaceable.

Construction

One-piece 20 Ga. steel housing. Steel end caps attach flush to housing. For row installation, internal brackets form hairline joint. All luminaires are provided with Y-cable suspension mounted on 48" or 96" centers. 4' unit weight: 22 lbs., 8' unit weight: 40 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. .125" 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 output —12W for 90 minutes. Maximum mounting height: 11.25ft.
Emergency Circuit maximum mounting height: 15.00ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFSD, NLT1, ENL1, CLM1, NXE1, WLXP) 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
Reported: L90 at 40,000 hours
Calculated: L70 at 130,000 hours
Calculated: L90 at 40,000 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	Tested System Watts	LPW
750LF	3000	25	121
875LF	3500	29	120
1000LF	4000	34	118
1125LF	4500	38	117
1250LF	5000	43	115

Based on 3500K. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

Focal Point LLC reserves the right to change specifications for product improvement without notification.

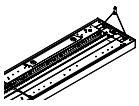
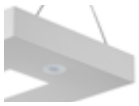
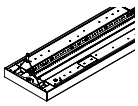
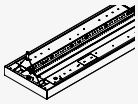
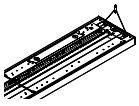
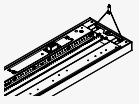
ORDERING

		FTWLS
Fixture Series		
Twelve LED	FTWLS	
Shielding		_____
Acrylic Diffuser	AC	
MicroGlow Prismatic Lens	MG	
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, 80+CRI	30K	
3500K, 80+CRI	35K	
4000K, 80+CRI	40K	
Circuits		1C
Single Circuit	1C	
Voltage		_____
UNV 120/277 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	LMFS1	
Wattstopper Fixture Sensor* High Density – 1% Dimming	LMFSD	
Acuity nLight - 1% Dimming	NLT1	
Enlighted Smart Sensor - 1% Dimming*	ENL1	
Encelium CLM Connected Lighting Module - 1% Dimming	CLM1	
Current NX Enabled – 1% Dimming	NXE1	
WaveLinx Pro – 1% Dimming* *See sensor layout guide	WLXP	
Mounting		_____
12" Cable Suspension	J12	
24" Cable Suspension	J24	
48" Cable Suspension	J48	
96" Cable Suspension (Add "P" for Chicago plenum. Eg: JP12, CP12) (Specify one of the following in place of "J" C - for 5" canopies at non-feed locations. CS - for sloped ceilings.)	J96	
Stem Mount (Specify stem length in inches Standard stem lengths 6, 12, 18, 24, 36, 48". White stems and canopies supplied standard. For non-white housings: to match stem and housing, add M to ordering code (S12M). To match stem, canopy and housing, add MC to ordering code (S12MC)	S__	
Factory Options		
Dust Cover	DST	_____
Emergency Battery Pack*	_EM	_____
Emergency Circuit* See EM/EC Guide for default locations and ordering details.)	_EC	_____
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') (Individual units may not be field modified for continuous row mount. Longer run lengths available in 4' increments.)	24'	

CONNECTED® SOLUTIONS

Twelve™ 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®		DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	**Advance by Signify**, Optotronic by eldoLED
WATTSTOPPER®		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	**Advance by Signify**
		LMFSD	LMFS-601						**Optotronic by eldoLED (Dexal)**
COOPER Lighting Solutions		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	**Advance by Signify**
CRESTRON		D11	Specified Driver	DALI	Crestron Zūm Wireless & SpaceBuilder	Enabled	No	Wired	**eldoLED ECOdrive**
		L11		0-10V					**Advance by Signify**
ENCELIUM		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	**Optotronic by eldoLED** Advance by Signify
Enlighted		ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	**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

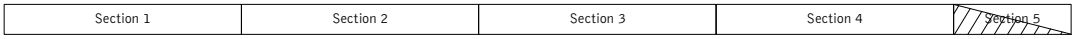
TWELVE LED - FTWLS

FOCAL POINT®

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: FTWLS-AC... **1EM**-WH-36ft

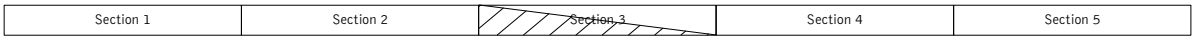
2 EM/EC – START & END OF RUN

Ordering example: FTWLS-AC... **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: FTWLS-AC... **1EM-3**-WH-40ft

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

Ordering example: FTWLS-AC... **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.