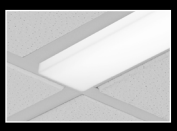
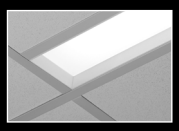
Seem® 2 Grid Ceiling

LED

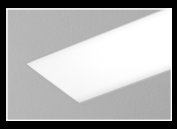
FOCAL POINT®



0.5" pop-down lens



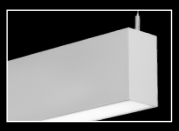
regress lens



recessed

wall to ceiling companion

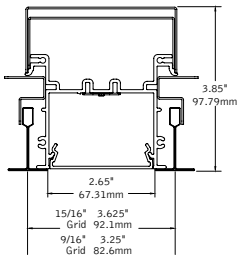
perimeter companion



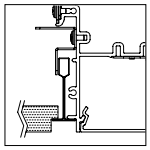
suspended & wall mount companions

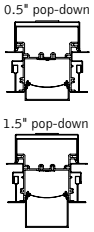
DIMENSIONAL DATA

AS, BW, FL lens, lay-in

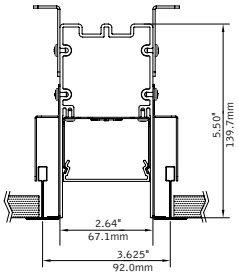


AS, BW, FL lens, Tegular detail

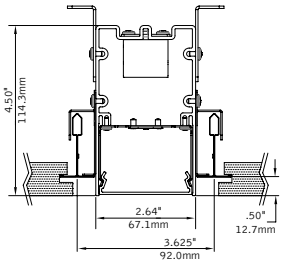




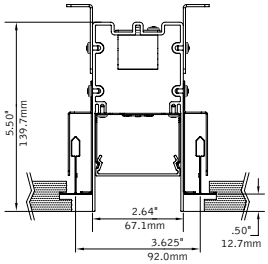
Regressed lens

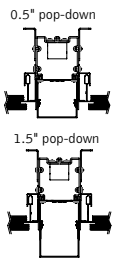


T4V - flush lens shown



T4V - regress lens shown





FEATURES

Narrow extruded aluminum 2.5" aperture recessed slot LED.

Individual units and continuous runs in 1" increments.

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

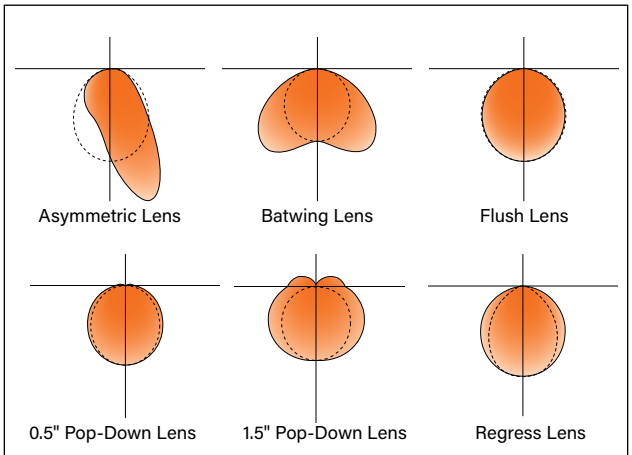
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

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.

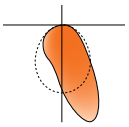
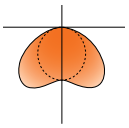
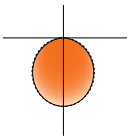
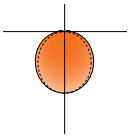
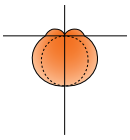
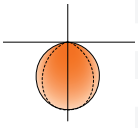
DISTRIBUTIONS



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

fixture: project:

4' PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
Asymmetric Lens 	125LF	500	5.9	85
	250LF	1000	8.2	122
	375LF	1500	11.1	135
	500LF	2000	14.5	138
	625LF	2500	17.9	140
	750LF	3000	22.1	136
	875LF	3500	25.9	135
	1000LF	4000	29.8	134
Batwing Lens 	125LF	500	5.5	91
	250LF	1000	8.7	115
	375LF	1500	12.0	125
	500LF	2000	15.5	129
	625LF	2500	20.0	125
	750LF	3000	24.0	125
	875LF	3500	28.1	125
	1000LF	4000	32.4	123
Flush Lens 	125LF	500	5.6	89
	250LF	1000	9.0	111
	375LF	1500	12.4	121
	500LF	2000	16.2	124
	625LF	2500	20.8	120
	750LF	3000	24.9	120
	875LF	3500	29.3	119
	1000LF	4000	33.8	118
Pop Down 0.5" Lens 	125LF	500	5.9	85
	250LF	1000	9.5	105
	375LF	1500	13.1	114
	500LF	2000	17.2	116
	625LF	2500	22.1	113
	750LF	3000	26.7	112
	875LF	3500	31.3	112
	1000LF	4000	36.2	110
Pop Down 1.5" Lens 	125LF	500	5.8	86
	250LF	1000	9.3	107
	375LF	1500	12.9	116
	500LF	2000	16.9	118
	625LF	2500	21.8	115
	750LF	3000	26.2	114
	875LF	3500	30.8	114
	1000LF	4000	35.6	112
Regress Lens 	125LF	500	5.9	85
	250LF	1000	9.6	104
	375LF	1500	13.4	112
	500LF	2000	17.5	114
	625LF	2500	22.5	111
	750LF	3000	27.1	111
	875LF	3500	31.9	110
	1000LF	4000	36.9	109

Based on 3500k, 4' lengths. Lumen multiplier: Continuous runs = 0.93 Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

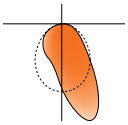
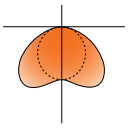
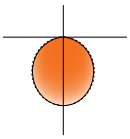
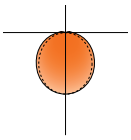
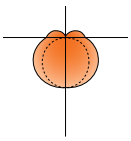
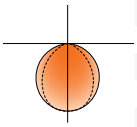
QS **10 DAY** Options in orange qualify for the Quickship program. 1000' total, 48' maximum per pattern section. Refer to Quickship Guide for complete details including EM/EC options.

STANDARD WHITE

Luminaire Series		**FSM2L**
Seem 2 LED Grid	FSM2L	
Shielding		
Asymmetric Lens	AS	
Batwing Lens	BW	
Flush Lens	FL	
0.5" Pop-Down Lens	PD05	
1.5" Pop-Down Lens (Individual units only)	PD15	
Regress Lens (Housing height 5.5" Ceiling applications only)	SR	
Lumen Output		
125 Lumens per foot (LD1, L11 & D11 driver only. 4' minimum. Not available on patterns.)	125LF	
250 Lumens per foot (3' minimum with LH1. Not available on patterns with LH1.)	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	
Circuits & Zones		
1 Circuit, non-emergency	1C	
Consult Ordering Guide on page 5 for multiple circuiting and zoning options	_C_Z_DL	
Voltage		
120/277 UNV Volt	UNV	
347 Volt (LD1 & L11 driver only.)	347V	
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	
Wattstopper DLM - 1% Dimming** (Not available with CP)	DLM1	
Wattstopper Fixture Sensor**[1] Low Density – 1% Dimming See sensor layout guide	LMFS1	
Wattstopper Fixture Sensor**[1] High Density – 1% Dimming See sensor layout guide	LMFSD	
Lutron Athena Wireless Node**	LAW1	
Lutron Athena Wireless Sensor**[1]	LAWS	
Acuity nLight - 1% Dimming** (Not available with CP)	NLT1	
Enlighted Smart Sensor - 1% Dimming**[1] See sensor layout guide	ENL1	
Encelium CLM Connected Lighting Module -** 1% Dimming	CLM1	
Current NX Enabled – 1% Dimming** (Not available with CP)	NXE1	
WaveLinx Pro – 1% Dimming**[1] See sensor layout guide	WLXP	
Ceiling Configuration		
Std. 15/16" Lay-in (G1) **or** Tegular (T1)	G1 **or** T1	
Std. 9/16" Lay-in (G2) **or** Tegular (T2)	G2 **or** T2	
9/16" Slot-tee Tegular	G3	
Tall 15/16" Lay-in (G4) **or** Tegular (T4)	G4 **or** T4	
Tall 15/16" Tegular for specialty ceilings (0.5" drop)	T4V	
Tall 9/16" Lay-in (G5) **or** Tegular (T5)	G5 **or** T5	
Node 9/16" Tegular	T6	
Factory Options (See Ordering Guide for ordering details for DC, EC, EM, & ECD.)		
Chicago Plenum (Not available with Flex Whip)	CP	
Daylight Circuit	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack†	_EM	
Emergency Control Device†	_ECD	
†(4' minimum, 6' minimum with patterns. 120/277 Volt only. Not available at corners. .)		
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6' Flex Whip	FW	
Finish		**WH**
Matte White Housing	WH	
Luminaire Length		**ft in**
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.)	_ft _in	
Pattern Options (4' minimum length)		
'L' pattern	A' x B'	
'U' pattern	A' x B' x C'	
Rectangular pattern (Consult factory for other pattern options)	A' x B' R	

fixture: project:

4' PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
Asymmetric Lens 	125LF	500	7.25	79.3
	250LF	1000	12.90	93.1
	375LF	1500	18.55	98.5
	500LF	2000	18.3	101.1
	625LF	2500	24.21	102.5
	750LF	3000	29.86	106.8
	875LF	3500	34.34	107.5
	1000LF	4000	39.71	107.8
Batwing Lens 	125LF	500	7.25	7.25
	250LF	1000	12.90	12.90
	375LF	1500	18.55	18.55
	500LF	2000	18.3	18.3
	625LF	2500	24.21	24.21
	750LF	3000	29.86	29.86
	875LF	3500	34.34	34.34
	1000LF	4000	39.71	39.71
Flush Lens 	125LF	500	7.25	69.0
	250LF	1000	12.90	80.9
	375LF	1500	18.55	85.7
	500LF	2000	18.3	87.9
	625LF	2500	24.21	89.2
	750LF	3000	29.86	92.9
	875LF	3500	34.34	93.5
	1000LF	4000	39.71	93.7
Pop Down 0.5" Lens 	125LF	500	7.25	83
	250LF	1000	12.90	66.2
	375LF	1500	18.55	77.7
	500LF	2000	18.3	82.2
	625LF	2500	24.21	84.4
	750LF	3000	29.86	85.6
	875LF	3500	34.34	89.2
	1000LF	4000	39.71	89.7
Pop Down 1.5" Lens 	125LF	500	7.25	90
	250LF	1000	12.90	65.5
	375LF	1500	18.55	76.9
	500LF	2000	18.3	81.4
	625LF	2500	24.21	83.5
	750LF	3000	29.86	84.7
	875LF	3500	34.34	88.3
	1000LF	4000	39.71	88.8
Regress Lens 	125LF	500	7.25	89.1
	250LF	1000	12.90	102
	375LF	1500	18.55	108
	500LF	2000	18.3	110
	625LF	2500	24.21	106
	750LF	3000	29.86	106
	875LF	3500	34.34	105
	1000LF	4000	39.71	104

Based on 2700K, 80CRI, 4' lengths. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

Lumen Multiplier

CRI	Multiplier
80+	1.00
90+	0.89

Wattage Multipliers

CCT	Multiplier
2700K	1.00
3000K	0.92
3500K	0.88
4000K	0.86
5000K	0.85
5700K	0.87

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

TUNABLE WHITE

Luminaire Series		**FSM2L**
Seem 2 LED Grid	FSM2L	
Shielding		
Asymmetric Lens	AS	
Batwing Lens	BW	
Flush Lens	FL	
0.5" Pop-Down Lens	PD05	
1.5" Pop-Down Lens (Individual units only)	PD15	
Regress Lens (Housing height 5.5" Ceiling applications only)	SR	
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		
Tunable White: 2700-6500K, 80+ CRI	2765T	
Tunable White: 2700-6500K, 90+ CRI	92765T	
Circuits & Zones		
1 Circuit, non-emergency	1C	
Consult Ordering Guide on page 5 for multiple circuiting and zoning options	_C_Z_DL	
Voltage		
120/277 UNV Volt	UNV	
347 Volt (LD1 & L11 driver only.)	347V	
Low Voltage	LV	
Control System & Dimming Level		**D1TW**
DALI 1% Dimming* (Default driver offers DT6 control. It requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8. Extended lead time applies.)	D1TW	
Ceiling Configuration		
Std. 15/16" Lay-in (G1) **or** Tegular (T1)	G1 **or** T1	
Std. 9/16" Lay-in (G2) **or** Tegular (T2)	G2 **or** T2	
9/16" Slot-tee Tegular	G3	
Tall 15/16" Lay-in (G4) **or** Tegular (T4)	G4 **or** T4	
Tall 15/16" Tegular for specialty ceilings (0.5" drop)	T4V	
Tall 9/16" Lay-in (G5) **or** Tegular (T5)	G5 **or** T5	
Node 9/16" Tegular	T6	
Factory Options (See Ordering Guide for ordering details for DC, EC, EM, & ECD.)		
Chicago Plenum (Not available with Flex Whip)	CP	
Daylight Circuit	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack†	_EM	
Emergency Control Device†	_ECD	
†(4' minimum, 6' minimum with patterns. 120/277 Volt only. Not available at corners.)		
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6' Flex Whip	FW	
Finish		**WH**
Matte White Housing	WH	
Luminaire Length		**ft in**
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.)	_ft _in	
Pattern Options (4' minimum length)		
'L' pattern	A' x B'	
'U' pattern	A' x B' x C'	
Rectangular pattern (Consult factory for other pattern options)	A' x B' R	

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. Non-Regress housing LED modules are replaceable from below, driver access above ceiling. Regress housing LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Steel driver compartment. Flush lens weights: 4' unit: 12.18 lbs., 8' unit: 21.34 lbs. Regress lens weights: 4' unit: 10.1 lbs., 8' unit: 20.2 lbs.

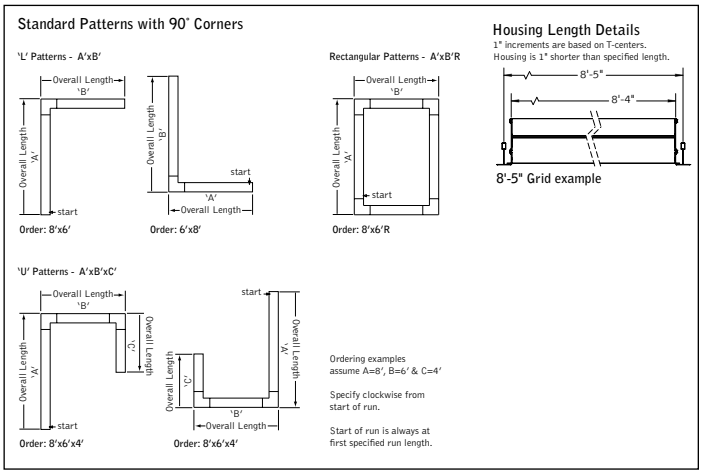
Optic

Extruded acrylic lens .060" 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.

Electrical

Luminaires are pre–wired with factory installed branch circuit wiring and 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.

DETAILS



Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 19.3ft (FL), 15.6ft (PD05). 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.

Lumen Maintenance

Reported:	L70 at >61,000 hours	Calculated:	L70 at 385,000
	L90 at >61,000 hours		L90 at 103,000

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.

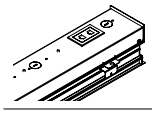
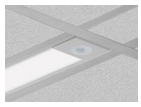
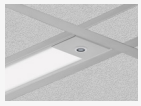
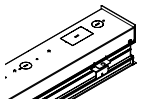
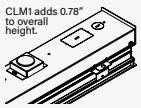
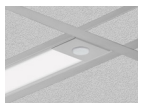
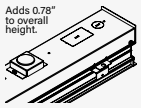
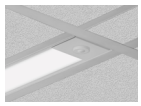
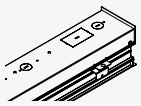
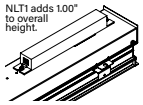
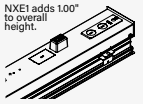
Warranty

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

CONNECTED® SOLUTIONS

Seem® 2 Grid Ceiling
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	Integrated	No	Wireless	**Advance by Signify**
		LMFSD	LMFS-601						**Optotronic by eldoLED (Dexal)**
COOPER Lighting Solutions		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Integrated	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		LAW1	A-WN-D01-RF-WH	DALI, 0-10V	Athena Wireless	Enabled	No	Wireless	**Advance by Signify**
		LAWS	A-WN-D01-OCC-WH	DALI, 0-10V	Athena Wireless	Integrated	No	Wireless	**Advance by Signify**
		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.

Ordering Guide

Direct Only Linear Circuitry, Zones & Factory Options

FOCAL POINT®

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.

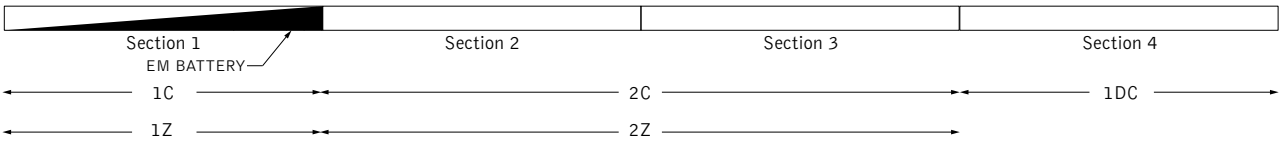
Submit the worksheet along with your order.

EXAMPLE

TOTAL RUN LENGTH: 32ft **JOB NAME:** _____ **FIXTURE TYPE:** _____

HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
					SEPARATE ELECTRICAL FEEDS			EM
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	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®

WORKSHEET

TOTAL RUN LENGTH: _____ **JOB NAME:** _____ **FIXTURE TYPE:** _____

HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
					SEPARATE ELECTRICAL FEEDS			EM
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	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		_C	_Z	_DL	_DC	_EC	_ECD	_EM

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

RUN CHART

Run length (ft)	Housing Configuration Section Lengths
9	5 + 4
10	6 + 4
11	7 + 4
12	8 + 4
13	8 + 5
14	8 + 6
15	8 + 7
16	8 + 8
17	8 + 5 + 4
18	8 + 6 + 4
19	8 + 7 + 4
20	8 + 8 + 4

Run length (ft)	Housing Configuration Section Lengths
21	8 + 8 + 5
22	8 + 8 + 6
23	8 + 8 + 7
24	8 + 8 + 8
25	8 + 8 + 5 + 4
26	8 + 8 + 6 + 4
27	8 + 8 + 7 + 4
28	8 + 8 + 8 + 4
29	8 + 8 + 8 + 5
30	8 + 8 + 8 + 6
31	8 + 8 + 8 + 7
32	8 + 8 + 8 + 8

Run length (ft)	Housing Configuration Section Lengths
33	8 + 8 + 8 + 5 + 4
34	8 + 8 + 8 + 6 + 4
35	8 + 8 + 8 + 7 + 4
36	8 + 8 + 8 + 8 + 4
37	8 + 8 + 8 + 8 + 5
38	8 + 8 + 8 + 8 + 6
39	8 + 8 + 8 + 8 + 7
40	8 + 8 + 8 + 8 + 8
41	8 + 8 + 8 + 8 + 5 + 4
42	8 + 8 + 8 + 8 + 6 + 4
43	8 + 8 + 8 + 8 + 7 + 4
44	8 + 8 + 8 + 8 + 8 + 4

Run length (ft)	Housing Configuration Section Lengths
45	8 + 8 + 8 + 8 + 8 + 8 + 5
46	8 + 8 + 8 + 8 + 8 + 8 + 6
47	8 + 8 + 8 + 8 + 8 + 8 + 7
48	8 + 8 + 8 + 8 + 8 + 8 + 8

Standard run configurations, consult factory for custom configurations.