

Seem® 2 Grid Ceiling

LED



0.5" pop-down lens



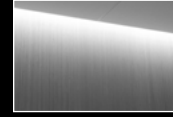
regress lens



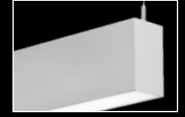
recessed



wall to ceiling
companion

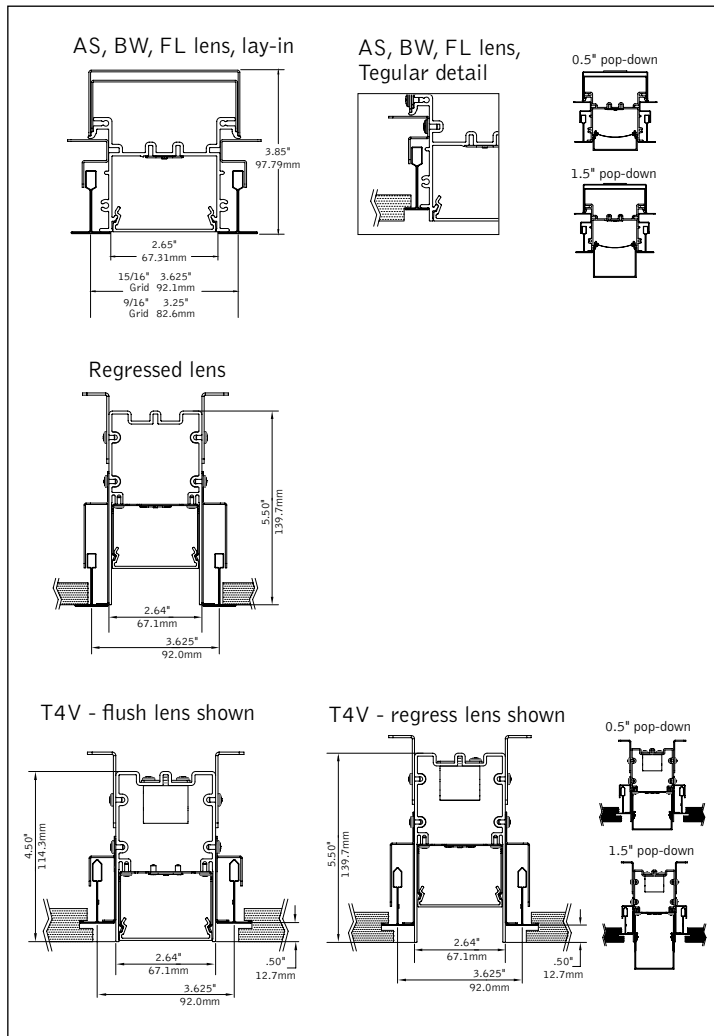


perimeter
companion



suspended & wall
mount companions

DIMENSIONAL DATA



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.

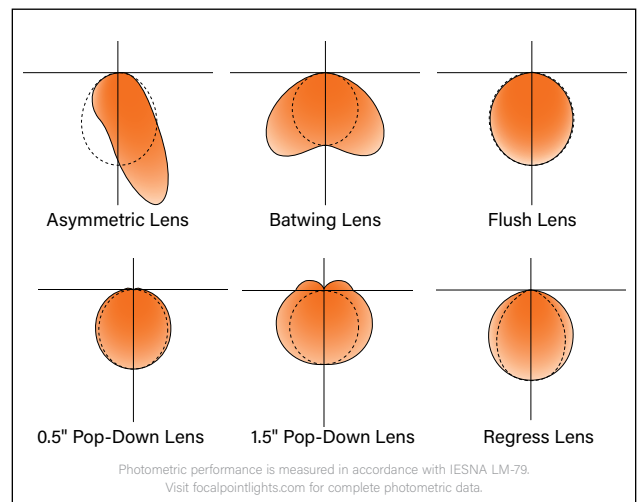
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

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



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
Batwing Lens		1000LF	4000	29.8	134
		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
Flush Lens		875LF	3500	28.1	125
		1000LF	4000	32.4	123
		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
Pop Down 0.5" Lens		750LF	3000	24.9	120
		875LF	3500	29.3	119
		1000LF	4000	33.8	118
		125LF	500	5.9	85
		250LF	1000	9.5	105
		375LF	1500	13.1	114
		500LF	2000	17.2	116
Pop Down 1.5" Lens		625LF	2500	22.1	113
		750LF	3000	26.7	112
		875LF	3500	31.3	112
		1000LF	4000	36.2	110
		125LF	500	5.8	86
		250LF	1000	9.3	107
		375LF	1500	12.9	116
Regress Lens		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
		125LF	500	5.9	85
		250LF	1000	9.6	104

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

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	PD15
(Individual units only)	
Regress Lens	SR
(Housing height 5.5' Ceiling applications only)	
Lumen Output	
125 Lumens per foot	125LF
(LD1, L11 & D11 driver only, 4' minimum. Not available on patterns.)	
250 Lumens per foot	250LF
(3' minimum with LH1. Not available on patterns with LH1.)	
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	LVN
(No driver. Not available with EM or EC. LV Voltage only.)	
Lutron Hi-Lume EcoSystem (LDE1) -	LH1
1% Dimming	
DALI 1% Dimming	D11
Wattstopper DLM - 1% Dimming**	DLM1
(Not available with CP)	
Wattstopper Fixture Sensor***	LMFS1
Low Density - 1% Dimming	
See sensor layout guide	
Wattstopper Fixture Sensor***	LMFSD
High Density - 1% Dimming	
See sensor layout guide	
Lutron Athena Wireless Node**2	LAW1
Lutron Athena Wireless Sensor***2	LAWS
Acuity nLight - 1% Dimming**	NLT1
(Not available with CP)	
Encelium CLM Connected Lighting Module - **	CLM1
1% Dimming	
Current NX Enabled - 1% Dimming**	NXE1
(Not available with CP)	
WaveLinX Pro - 1% Dimming***	WLXP
See sensor layout guide	
** (3' minimum length, with ECD/EM - 7' minimum.)	
*** (Not available with pop-down lenses.)	
† (0-10V standard. Consult factory for DALI.)	
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	CP
(Not available with Flex Whip)	
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)	FN1
6' New York City Flex Whip (277V)	FN2
6' Flex Whip	FW
Finish	
Matte White Housing	WH
Luminaire Length	
Specify luminaire/row length in 1" increments	_ft_in
(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.)	
Pattern Options	
(4' 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)	

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.

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
Batwing Lens	1000LF	4000	39.71	107.8
	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
Flush Lens	875LF	3500	34.34	34.34
	1000LF	4000	39.71	39.71
	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
Pop Down 0.5" Lens	750LF	3000	29.86	92.9
	875LF	3500	34.34	93.5
	1000LF	4000	39.71	93.7
	125LF	500	7.25	83
	250LF	1000	12.90	66.2
	375LF	1500	18.55	77.7
	500LF	2000	18.3	82.2
Pop Down 1.5" Lens	625LF	2500	24.21	84.4
	750LF	3000	29.86	85.6
	875LF	3500	34.34	89.2
	1000LF	4000	39.71	89.7
	125LF	500	7.25	90
	250LF	1000	12.90	65.5
	375LF	1500	18.55	76.9
Regress Lens	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
	125LF	500	7.25	89.1
	250LF	1000	12.90	102
Regress Lens	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		Wattage Multipliers	
CRI	Multiplier	CCT	Multiplier
80+	1.00	2700K	1.00
90+	0.89	3000K	0.92
		3500K	0.88
		4000K	0.86
		5000K	0.85
		5700K	0.87



TUNABLE WHITE

Luminaire Series

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

PD15

(Individual units only)

Regress Lens

SR

(Housing height 5.5" Ceiling applications only)

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

DALI 1% Dimming†

D1TW

(Default driver offers DT6 control. It requires two addresses,

one for intensity & one for CCT tuning.

Consult factory for DT8. Extended lead time applies.)

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

CP

(Not available with Flex Whip)

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)

FN1Y

6' New York City Flex Whip (277V)

FN2Y

6' Flex Whip

FW

Finish

Matte White Housing

WH

Luminaire Length

Specify luminaire/row length in 1" increments

_ft _in

(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.)

Pattern Options

(4' 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)

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.

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, 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 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.

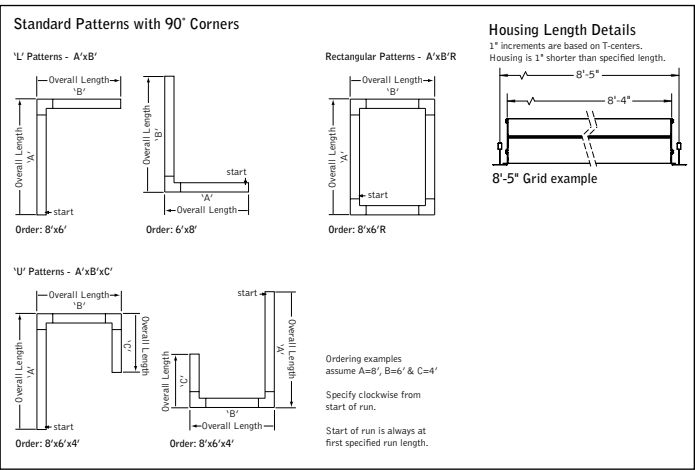
Reliability

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.

DETAILS



Declare.

Seem 2

Focal Point, LLC

Final Assembly: Chicago, Illinois, USA
Life Expectancy: 10 Year(s)
End of Life Options: Recyclable (55%), Landfill (45%)

Ingredients:

Aluminum; Steel; Small Electrical Components - RoHS Compliant¹; Polymethyl methacrylate; UNS G1008; Copper; Zinc; Steel, carbon; **Polyvinyl chloride**; Poly[imino(1,6-dioxo-1,6-hexanedyl)imino-1,6-hexanedyl]; Methyl methacrylate; **Benzene, ethenyl-, homopolymer, brominated; Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)**; Polyethylene; Polypropylene; Steel manufacture, chemicals

¹LBC Temp Exception RL-002 - Small Electrical Components

Living Building Challenge Criteria:

I-13 Red List:

☐ LBC Red List Free

☐ LBC Red List Approved

☒ Declared

% Disclosed: 100% at 100ppm


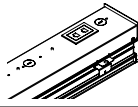





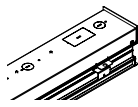



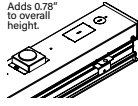

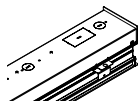

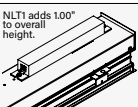



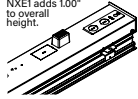
VOC Content: Not Applicable

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

FPL-0003
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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
 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)
		WLXP	OEM-WAA	WaveLinX Wireless	WaveLinX Pro Trellix	Integrated	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 adds 0.78" to overall height.	CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
	 Adds 0.78" to overall height.	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
	 NLT1 adds 1.00" to overall height.	NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	eldoLED ECOdrive, eldoLED SOLOdrive
								Wired 	Optotronic by eldoLED
	 NXE1 adds 1.00" to overall height.	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No		

*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.

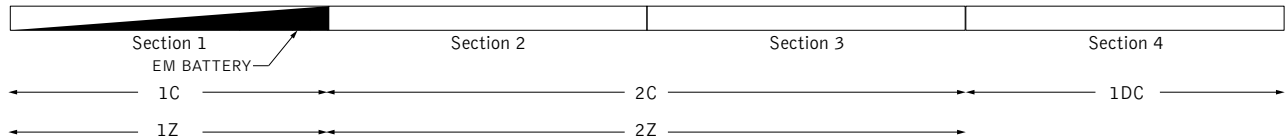
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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.

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

Z = Dimming Zone
Dimming Control Wires

DL = Daylight Zone
Daylight Dimming Control Wires

DC = Daylight Circuit
Switched Hot / Separate Neutral

EC = Emergency Circuit
Switched Hot / Separate Neutral

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	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.