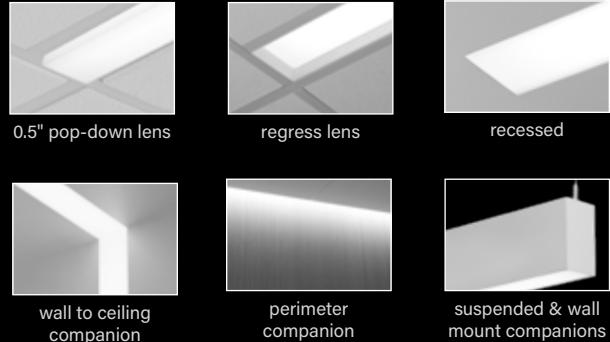
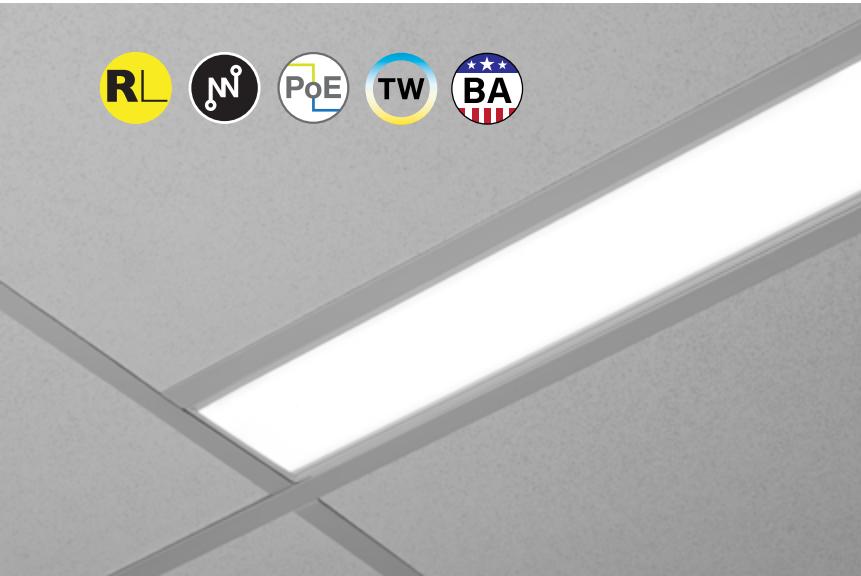
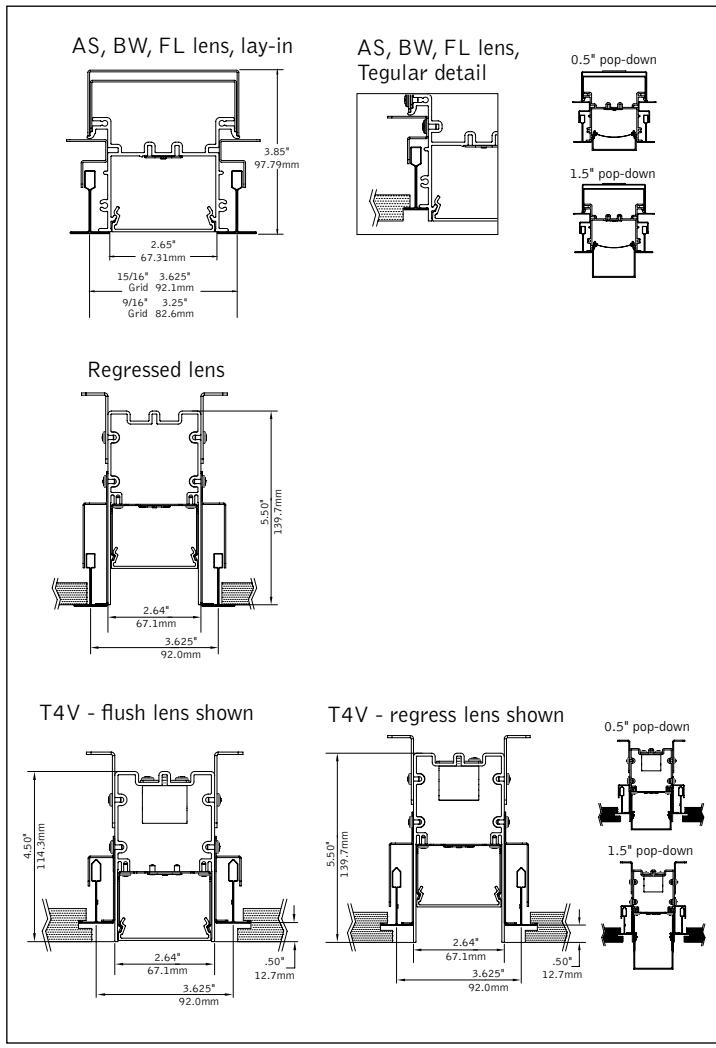


Seem® 2 Grid Ceiling

LED



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.

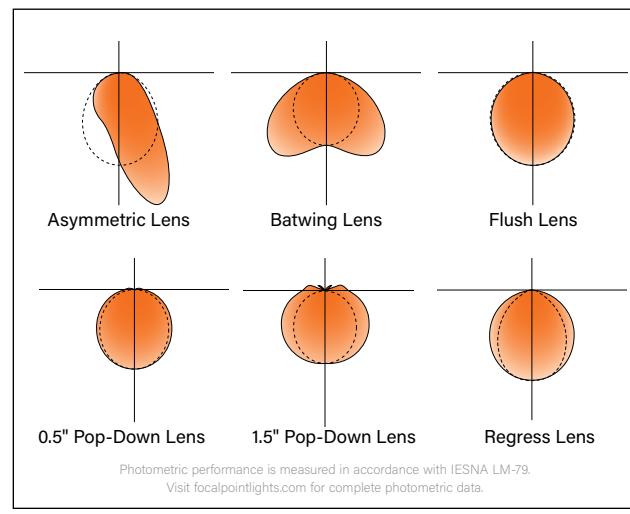
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

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



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

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
	125LF	500	5.5	91
	250LF	1000	8.7	115
Batwing Lens	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
	125LF	500	5.6	89
	250LF	1000	9.0	111
	375LF	1500	12.4	121
	500LF	2000	16.2	124
Flush Lens	625LF	2500	20.8	120
	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
	625LF	2500	22.1	113
	750LF	3000	26.7	112
Pop Down 0.5" Lens	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
	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
Pop Down 1.5" 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
	125LF	500	5.9	85
	250LF	1000	9.6	104
Regress Lens	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, 80CRI, 4' lengths. Lumen multiple 90+ CRI = 0.86. Continuous runs = 0.93 Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.



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

Seem 2 LED Grid

Shielding

Asymmetric Lens

Batwing Lens

Flush Lens

0.5" Pop-Down Lens

1.5" Pop-Down Lens

(Individual units only)

Rgress Lens

(Housing height 5.5". Ceiling applications only)

Lumen Output

125 Lumens per foot

(LD1, L11 & D11 driver only. 4' minimum. Not available on patterns.)

250 Lumens per foot

(3' minimum with LH1. Not available on patterns with LH1.)

375 Lumens per foot

500 Lumens per foot

625 Lumens per foot

750 Lumens per foot

875 Lumens per foot

1000 Lumens per foot

Color Temperature

2700K, 80+ CRI or 90+ CRI

3000K, 80+ CRI or 90+ CRI

3500K, 80+ CRI or 90+ CRI

4000K, 80+ CRI or 90+ CRI

Circuits & Zones

1 Circuit, non-emergency

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

Voltage

120/277 UNV Volt

347 Volt (LD1 & L11 driver only)

Low Voltage

Control System & Dimming Level

0-10V - 10% Dimming

0-10V - 1% Dimming

Low Voltage, PoE compatible

(No driver. Not available with EM or EC. LV Voltage only)

Lutron Hi-Lume EcoSystem (LDE1) -

1% Dimming

DALI 1% Dimming

Wattstopper DLM - 1% Dimming**

(Not available with CP)

Wattstopper Fixture Sensor**

Low Density - 1% Dimming

See sensor layout guide

Wattstopper Fixture Sensor**

High Density - 1% Dimming

See sensor layout guide

Lutron Athena Wireless Node**

LAW1

Lutron Athena Wireless Sensor**

LAWS

Acuity nLight - 1% Dimming**

NLT1

(Not available with CP)

Encelium CLM Connected Lighting Module --

1% Dimming

Current NX Enabled - 1% Dimming**

(Not available with CP)

WaveLinx Pro - 1% Dimming**

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

(Not available with Flex Whip)

Daylight Circuit

Emergency Circuit

Emergency Battery Pack

Emergency Control Device†

(4' minimum, 6' minimum with patterns. 120/277 Volt only. Not available at corners.)

6' New York City Flex Whip (120V)

6' New York City Flex Whip (277V)

6' Flex Whip

Finish

Matte White Housing

Luminaire Length

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.)

Pattern Options

(4' minimum length)

'L' pattern

'U' pattern

Rectangular pattern

(Consult factory for other pattern options)

A' x B'

A' x B' x C'

A' x B' R

FSM2L

AS

BW

FL

PD05

PD15

SR

125LF

250LF

375LF

500LF

625LF

750LF

875LF

1000LF

27K or 927K

30K or 930K

35K or 935K

40K or 940K

1C

_C_Z_DL

UNV

347V

LV

LD1

L11

LVN

LH1

D11

DLM1

LMFS1

LMFSD

WLPX

LAW1

LAWS

NLT1

CLM1

1% Dimming

NXE1

WLX

G1 or T1

G2 or T2

G3

G4 or T4

T4V

G5 or T5

T6

CP

DC

_EC

EM

_ECD

FNY1

FNY2

FW

WH

ft in

fixture:

project:



4' PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
Asymmetric Lens	125LF	500	5.9	84
	250LF	1000	9.9	101
	375LF	1500	13.7	109
	500LF	2000	18.0	111
	625LF	2500	23.3	107
	750LF	3000	28.1	107
	875LF	3500	33.1	106
	1000LF	4000	38.3	104
	125LF	500	6.2	81
	250LF	1000	10.3	97
Batwing Lens	375LF	1500	14.8	101
	500LF	2000	19.5	103
	625LF	2500	25.3	99
	750LF	3000	30.6	98
	875LF	3500	36.1	97
	1000LF	4000	41.8	96
	125LF	500	6.3	79
	250LF	1000	10.7	94
	375LF	1500	15.4	98
	500LF	2000	20.3	99
Flush Lens	625LF	2500	26.3	95
	750LF	3000	31.9	94
	875LF	3500	37.7	93
	1000LF	4000	43.2	93
	125LF	500	6.7	75
	250LF	1000	11.3	89
	375LF	1500	16.3	92
	500LF	2000	22.4	89
	625LF	2500	28.1	89
	750LF	3000	34.2	88
Pop Down 0.5" Lens	875LF	3500	40.5	86
	1000LF	4000	46.4	86
	125LF	500	6.6	76
	250LF	1000	11.1	90
	375LF	1500	16.1	93
	500LF	2000	21.3	94
	625LF	2500	27.6	90
	750LF	3000	33.6	89
	875LF	3500	39.7	88
	1000LF	4000	45.6	88
Pop Down 1.5" Lens	125LF	500	6.8	74
	250LF	1000	11.4	87
	375LF	1500	16.6	90
	500LF	2000	22.8	88
	625LF	2500	28.7	87
	750LF	3000	34.8	86
	875LF	3500	41.2	85
	1000LF	4000	47.2	85
	125LF	500	6.8	74
	250LF	1000	11.4	87
Regress Lens	375LF	1500	16.6	90
	500LF	2000	22.8	88
	625LF	2500	28.7	87
	750LF	3000	34.8	86
	875LF	3500	41.2	85
	1000LF	4000	47.2	85

Based on 2700K, 90CRI, 4' lengths. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

Lumen Multiplier

Wattage Multipliers

CRI	Multiplier	CCT	Multiplier
80+	1.16	2700K	1.00
90+	1.00	3000K	0.96
		3500K	0.92
		4000K	0.89
		5000K	0.88
		5700K	0.87



TUNABLE WHITE

Luminaire Series

Seem 2 LED Grid

FSM2L

Shielding

Asymmetric Lens

BW

Flush Lens

0.5" Pop-Down Lens

1.5" Pop-Down Lens

(Individual units only)

Rgress Lens

(Housing height 5.5". Ceiling applications only)

Lumen Output

125 Lumens per foot

250 Lumens per foot

375 Lumens per foot

500 Lumens per foot

625 Lumens per foot

750 Lumens per foot

875 Lumens per foot

1000 Lumens per foot

2765T

92765T

Color Temperature

Tunable White: 2700-6500K, 80+ CRI

Tunable White: 2700-6500K, 90+ CRI

Circuits & Zones

1 Circuit, non-emergency

Consult Ordering Guide on page 5 for multiple

circuiting and zoning options

Voltage

120/277 UNV Volt

347 Volt (LD1 & L11 driver only)

Low Voltage

LV

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.)

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)

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

WH

Matte White Housing

WH

Luminaire Length

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.)

Pattern Options

(4' minimum length)

'L' pattern

'U' pattern

Rectangular pattern

(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-Recess housing LED modules are replaceable from below, driver access above ceiling. Recess 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

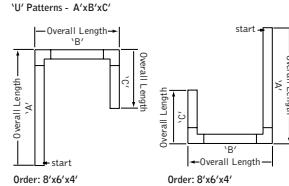
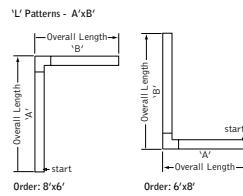
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

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

DETAILS

Standard Patterns with 90° Corners



The diagram shows a large rectangle divided into a grid. The vertical axis is labeled 'Overall Length' with 'A' at the bottom and 'A'' at the top. The horizontal axis is labeled 'Overall Length' with 'B' at the right end. A point on the bottom edge is labeled 'start'.

Ordering examples
assume A=8', B=6' & C=4'

Specify clockwise from
start of run.

Start of run is always at
first specified run length.





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
 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	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled [†]	No	Wireless	Optotronic by eldoLED Advance by Signify
	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	nEPS-60-IO	nLight	nLight	Enabled [†]	No	Wired	eldoLED ECODrive , eldoLED SOLOdrive
	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. [‡]Enabled: Fixture supplied with a Node/ Controller. Sensor to be provided by others. [‡]Integrated: Fixture supplied with an installed Sensor.

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.

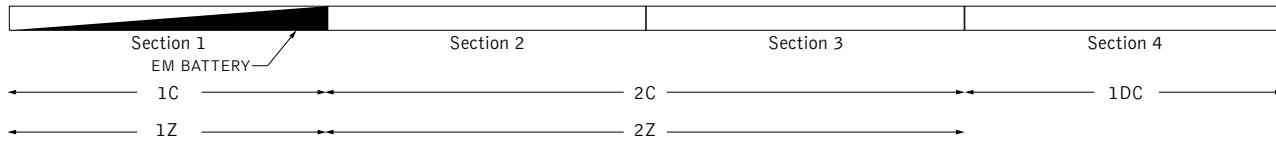
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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			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



WORKSHEET	TOTAL RUN LENGTH:		JOB NAME: _____			Fixture Type: _____		
	HOUSING SECTION	SECTION LENGTH	Shared Electrical Feed, Normal Power			FACTORY OPTIONS		
			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								

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.