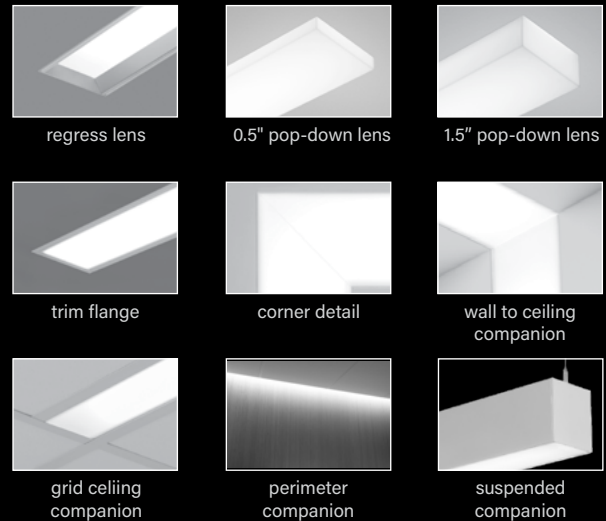


Seem® 4 Drywall/Hard/Specialty Ceiling

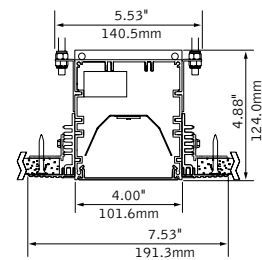
LED



DIMENSIONAL DATA

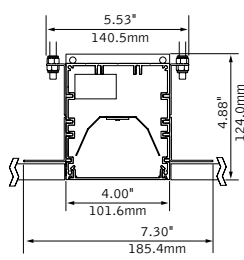
Asymmetric, Batwing, Flush Lens

Trimless mud-in



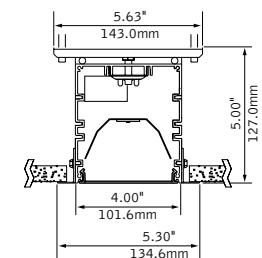
note: 0.375"min - 2.125"max ceiling thickness

Hard surface

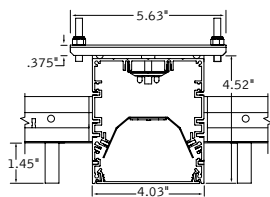


note: 0.375"min - 2.125"max ceiling thickness

Trim flange



No Flange

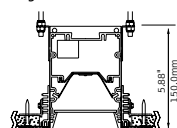


Specialty ceiling examples

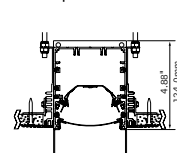


Additional Shielding Options

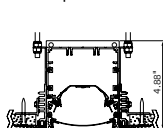
Regress lens



1.5" Pop-Down lens



0.5" Pop-Down lens



FEATURES

Extruded aluminum 4" aperture recessed slot LED integrates with drywall or hard ceilings or walls in a variety of mounting styles for a clean, unobtrusive aesthetic.

Individual units and continuous runs in 1" increments.

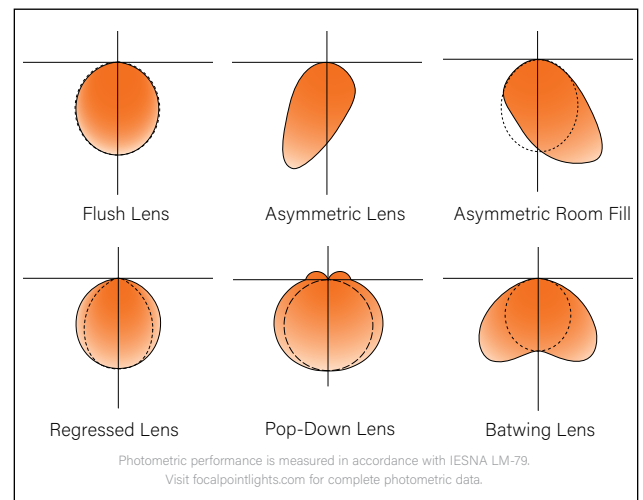
Available in flush, asymmetric, asymmetric room fill, batwing, regress, 0.5" or 1.5" pop-down lens.

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.

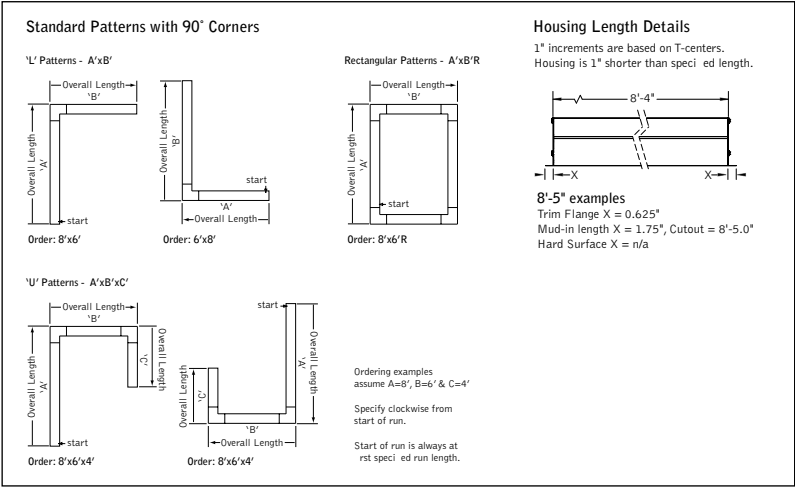
DISTRIBUTIONS



fixture:

project:

DETAILS



4' PERFORMANCE CHART

		BW		FL		AS		AF	
Lumen Output	Nominal Lumens	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
		8.8	125	9.1	121	8.5	130	8.6	128
275LF	1100	11.3	133	11.7	129	10.8	138	11	137
375LF	1500	19	131	19.9	126	18.3	137	18.5	135
625LF	2500	27	130	27.9	125	25.9	135	26.2	133
875LF	3500	31.1	129	32.2	124	29.8	134	30.2	132
1000LF	4000	35.4	127	36.6	123	33.9	133	34.4	131
1125LF	4500	39.8	126	41.2	121	38.1	131	38.6	129
1250LF	5000								

Based on 3500K, 80 CRI, 4' lengths. Lumen multiplier: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

4' PERFORMANCE CHART - REGRESS

		SR		SRXP	
Lumen Output	Nominal Lumens	Tested System Watts	LPW	Tested System Watts	LPW
		9.4	117	8.7	127
275LF	1100	12.5	120	11.1	135
375LF	1500	21.1	118	18.7	134
625LF	2500	30	117	26.5	132
875LF	3500	34.6	116	30.6	131
1000LF	4000	39.5	114	34.8	129
1125LF	4500	44.4	113	39	128
1250LF	5000				

Based on 3500K, 80 CRI, 4' lengths. Lumen multiplier: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

4' PERFORMANCE CHART - POP-DOWN

		0.5"		1.5"	
Lumen Output	Nominal Lumens	Tested System Watts	LPW	Tested System Watts	LPW
		11	100	11.9	93
275LF	1100	14.7	102	15.8	95
375LF	1500	25	100	27	93
625LF	2500	30.3	99	32.7	92
750LF	3000	35.7	98	38.6	91
875LF	3500	41.3	97	44.7	89
1000LF	4000				

Based on 3500K, 80 CRI, 4' lengths. Lumen multiplier: 90+ CRI = 0.87. 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.

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

STANDARD WHITE

Luminaire Series

Seem 4 LED FSM4L

Shielding

Asymmetric Lens AS
Asymmetric Room Fill AF
Batwing Lens BW
Flush Satin Lens FL
0.5" Pop-Down Lens (1000LF max.) PD05
1.5" Pop-Down Lens (1000LF max. individual units only) PD15
Regress Lens* SR
Regress High Performance Lens* SRXP

Lumen Output

275 Lumens per foot (Not available with LH1) 275LF
375 Lumens per foot (Not available with LH1) 375LF
625 Lumens per foot (BW, FL & SR 3' min. individual units only with LH1. SRXP 4' min. individual units only with LH1.) 625LF
750 Lumens per foot (Pop-Down Lenses only) 750LF
875 Lumens per foot (SR & SRXP 3' min. individual units only with LH1.) 875LF
1000 Lumens per foot 1000LF
1125 Lumens per foot 1125LF
1250 Lumens per foot 1250LF

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 6 for multiple circuiting and zoning options _C_Z_DL

Voltage

120/277 UNV Volt UNV
Low Voltage LV

Control System & Dimming Level

0-10V - 10% Dimming LD1
0-10V - 1% Dimming L1
Low Voltage, PoE compatible LVN
(No driver. Not available with EM or EC. LV Voltage only)
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming (625LF min.) LH1
DALI 1% Dimming (1000LF max.) D11
Wattstopper Fixture Sensor** LMFS1
Low Density - 1% Dimming
Wattstopper Fixture Sensor** LMFSD
High Density - 1% Dimming
Lutron Athena Wireless Sensor**¹ LAWS
WaveLinx Pro - 1% Dimming** WLXP
¹(0-10V standard. Consult factory for DALI)
^{**}(3' min. length. 7' min. with ECD/EM.
Not available with Pop-Down Lenses) See sensor layout guide

Ceiling Configuration

No Flange for specialty ceilings NF
(Ex. slat, panel, cloud systems.)

Trim Flange Drywall

Trim Flange Wood TF
Mud-in Trimless, pre-set for 1/2" Drywall TFW
Mud-in Trimless, pre-set for 5/8" Drywall XF1
Mud-in Trimless, set thickness in field XF2
(Mounting equipment assembled in field) XFF
Non-Drywall Hard Surface XFN
Hard Surface, Wood XFW

Factory Options

(See page 6 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 or 277V FNY1 or FNY2
6' Flex Whip FW

Finish

Matte White Housing WH

Luminaire Length

Specify luminaire/row length in 1" increments _ft _in
(2' minimum. Housing length is 1" shorter than specified. Leave blank for patterns.)

Pattern Options

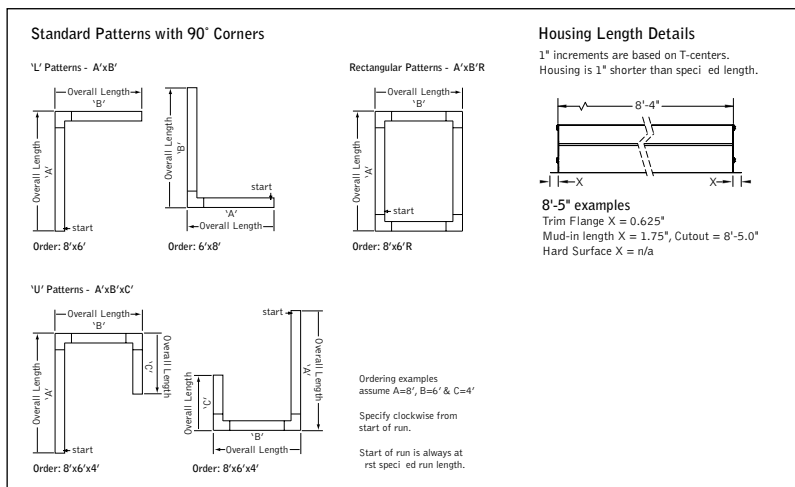
(4' min. length. Not available with Pop-Down Lenses. Consult factory for other pattern options.)

'L' pattern A' x B'
'U' pattern A' x B' x C'
Rectangular pattern A' x B' R

fixture:

project:

DETAILS



TW 4' PERFORMANCE CHART

Lumen Output	Nominal Lumens	LPW			
		BW		FL	
		Tested System Watts		Tested System Watts	
275LF	1100	10.4	106	10.8	102
375LF	1500	13.9	108	14.5	104
625LF	2500	24.1	104	24.9	100
875LF	3500	34.8	101	35.9	97
1000LF	4000	40.1	100	41.2	97
1125LF	4500	45.6	99	46.9	96

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

TW 4' PERFORMANCE CHART - REGRESS

Lumen Output	Nominal Lumens	LPW			
		SR		SRXP	
		Tested System Watts		Tested System Watts	
275LF	1100	11.1	99	10.3	107
375LF	1500	15.5	97	13.8	109
625LF	2500	26.8	93	23.8	105
875LF	3500	38.7	90	34.2	102
1000LF	4000	44.3	90	39.1	102

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

TW 4' PERFORMANCE CHART - POP-DOWN

Lumen Output	Nominal Lumens	0.5"		1.5"	
		Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	13.1	84	14.1	78
375LF	1500	18.3	82	19.6	76
625LF	2500	31.7	79	34.3	73
750LF	3000	38.8	77	41.9	72

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

Lumen Multipliers

CRI	Multiplier
80+	1.16
90+	1.00

Wattage Multipliers

CCT	Multiplier
2700K	1.00
3000K	0.96
3500K	0.92
4000K	0.89
5000K	0.88
5700K	0.87



TUNABLE WHITE

Luminaire Series

Seem 4 LED FSM4L

Shielding

Batwing Lens BW

Flush Satin Lens FL

0.5" Pop-Down Lens (750LF max.) PD05

1.5" Pop-Down Lens (750LF max. individual units only) PD15

Regress Lens* SR

Regress High Performance Lens* SRXP

*(1000LF max. Ceiling applications only)

Lumen Output

275 Lumens per foot (BW, FL, SR & SRXP 3' min. with D1TW) 275LF

375 Lumens per foot (BW, FL, SR & SRXP 3' min.) 375LF

625 Lumens per foot (Pop-Down Lenses only) 625LF

750 Lumens per foot (Pop-Down Lenses only) 750LF

875 Lumens per foot 875LF

1000 Lumens per foot 1000LF

1125 Lumens per foot 1125LF

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 6 for multiple circuiting and zoning options _C_Z_DL

Voltage

120/277 UNV Volt UNV

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

No Flange for specialty ceilings (Ex. slat, panel, cloud systems.) NF

Trim Flange Drywall TF

Trim Flange Wood TFW

Mud-in Trimless, pre-set for 1/2" Drywall XF1

Mud-in Trimless, pre-set for 5/8" Drywall XF2

Mud-in Trimless, set thickness in field (Mounting equipment assembled in field) XFF

Non-Drywall Hard Surface XFN

Hard Surface, Wood XFW

Factory Options

(See page 6 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

†(Consult factory.)

6' New York City Flex Whip 120V or 277V FNY1 or FNY2

6' Flex Whip FW

Finish

Matte White Housing WH

Luminaire Length

Specify luminaire/row length in 1" increments _ft_in
(2" minimum. Housing length is 1" shorter than specified. Leave blank for patterns.)

Pattern Options

(4' min. length. Not available with Pop-Down Lenses. Consult factory for other pattern options.)

'L' pattern A' x B'

'U' pattern A' x B' x C'

Rectangular pattern 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 or Tunable White (2700K-6500K), CRI>80, >90. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. XFW acceptable for use with wood, consult factory for Type IC availability. 2' unit weight: 12 lbs., 3' unit weight: 16 lbs., 4' unit weight: 20 lbs., 5' unit weight: 24 lbs.

Optic

Asymmetric, Flush and Batwing lens extruded acrylic .085" thick with satin finish up to 8' continuous. Pop-Down lens extruded acrylic .06" thick with frosted finish, up to 8' continuous. Regress lens .118" thick acrylic lay-in lens. 22 Ga. reflector finished in High Reflectance White powder coat.

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

Output - 10 watts for 90 minutes. Maximum mounting height: 19.2ft. Emergency Circuit with Connected Solutions (LMFS1, LMFS2, 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 > 61,000 hours
L90 > 61,000 hours
Calculated: L70 at > 480,000 hours
L90 at > 128,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

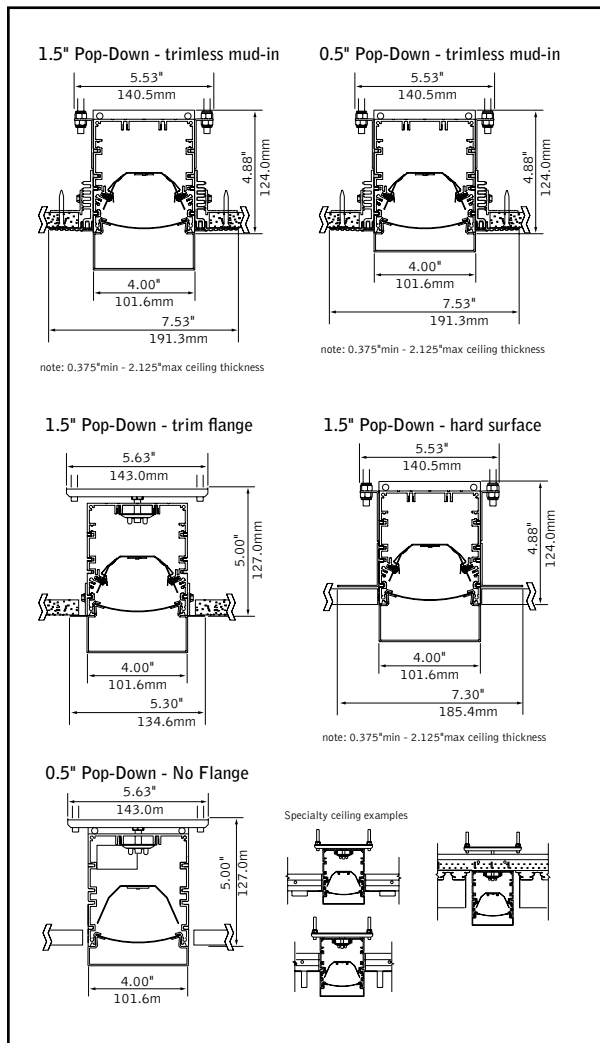
Reliability

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.

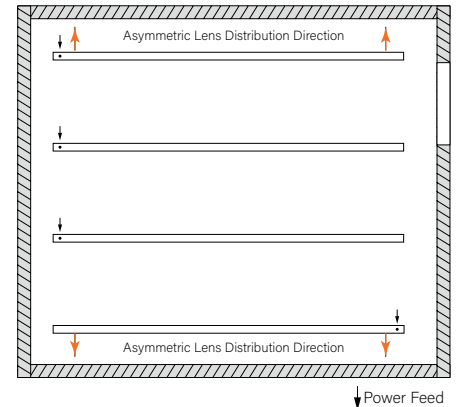
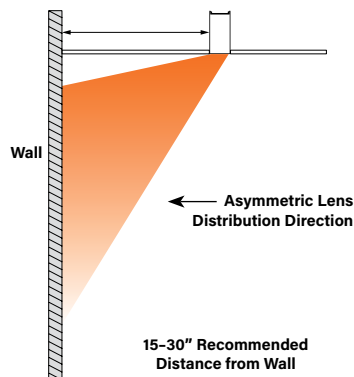
Warranty

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

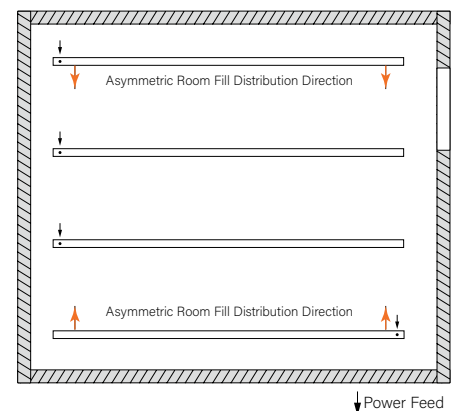
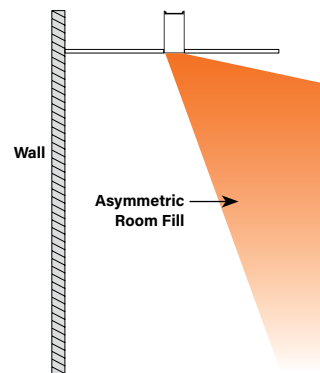
ADDITIONAL DIMENSIONAL DATA



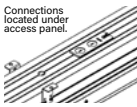
DIRECT ASYMMETRIC Standard Application Example



DIRECT ASYMMETRIC ROOM FILL Standard Application Example



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 [®] 	LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify
	LMFSD	LMFS-601						Optotronic by eldoLED (Dexal)
 	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	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
 	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

*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.

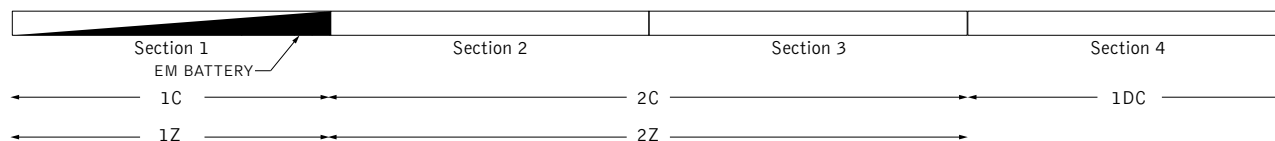
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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



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	SEPARATE ELECTRICAL FEEDS			
						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.