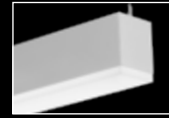
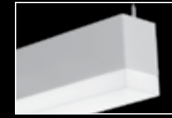


Seem® 4

LED



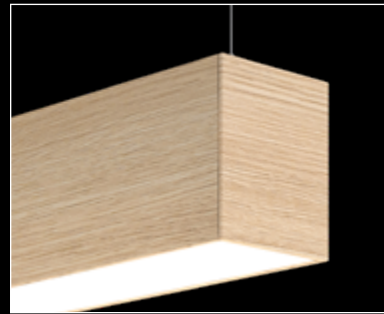
0.5" pop-down lens



1.5" pop-down lens



wall mount companion



The Naturals collection - Light Oak shown

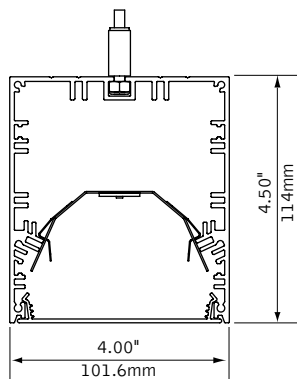


wall to ceiling companion



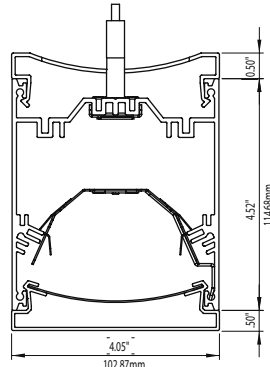
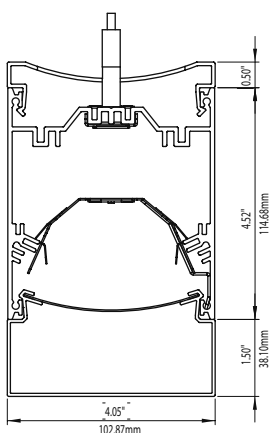
recessed companion

DIMENSIONAL DATA



1.5" Pop-Down Lens

0.5" Pop-Down Lens



FEATURES

Narrow extruded aluminum 4" linear direct LED.

Individual units and continuous runs in 1' increments.

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

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

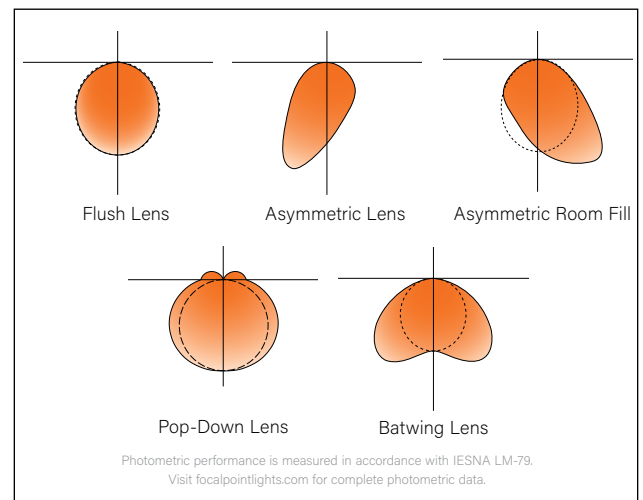
Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

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.

Available with The Naturals, a series of finishes that exude biophilic beauty.

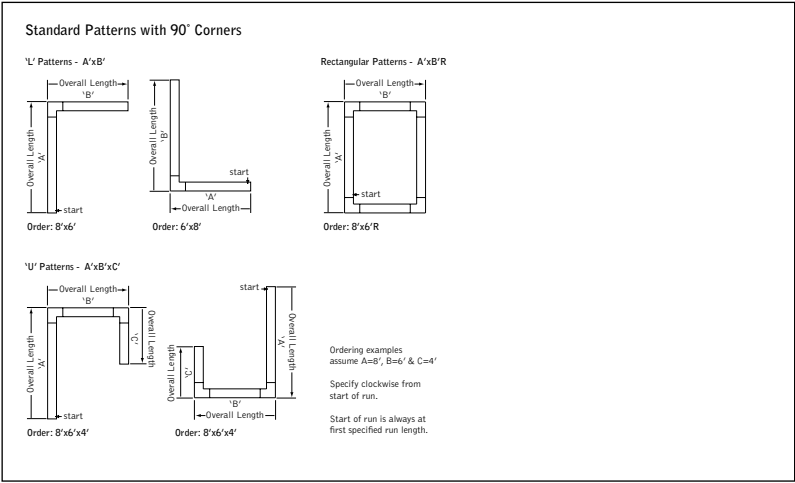
PERFORMANCE



fixture:

project:

DETAILS



4' PERFORMANCE CHART

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

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

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

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. Run lengths in 1' increments, 1000' total. Refer to Quickship Guide for complete details including EM/EC options.

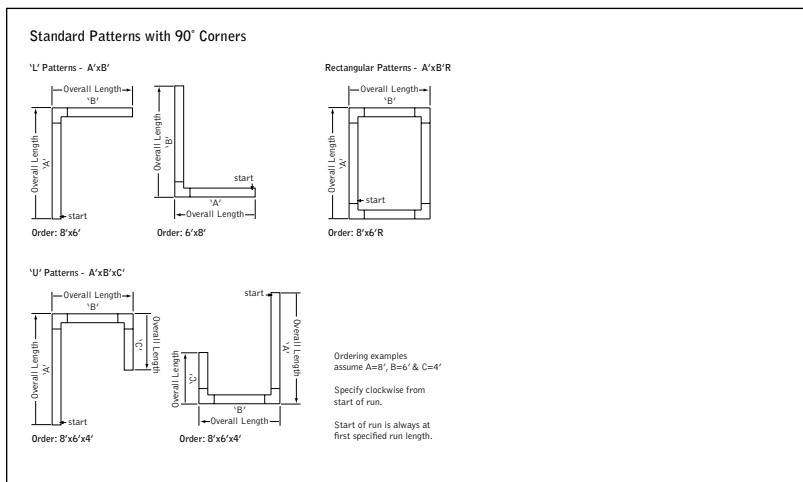
Focal Point LLC reserves the right to change specifications for product improvement without notification.

STANDARD WHITE		FSM4LS
Luminaire Series		
Seem 4 LED		FSM4LS
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 (2' - 12' individual units only, 1000LF max.)		PD15
Lumen Output		
275 Lumens per foot (Not available with Lutron)		275LF
375 Lumens per foot (Not available with LHI)		375LF
625 Lumens per foot (3' min. with LHI)		625LF
750 Lumens per foot (Pop-Down Lens only)		750LF
875 Lumens per foot		875LF
1000 Lumens per foot		1000LF
1125 Lumens per foot (BW & FL only)		1125LF
1250 Lumens per foot (BW & FL only)		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 4 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		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 (1000LF max.)		D11
Wattstopper DLM - 1% Dimming**		DLM1
Wattstopper Fixture Sensor** 2 LMF51		
Low Density - 1% Dimming		
See sensor layout guide		
Wattstopper Fixture Sensor** 2 LMFSD		
High Density - 1% Dimming		
See sensor layout guide		
Lutron Athena Wireless Node**1		LAW1
Lutron Athena Wireless Sensor**12 LAWS		
(Remote mounted sensor. See sensor layout guide)		
Acuity nLight - 1% Dimming**		NLT1
Encelium CLM Connected Lighting**		CLM1
Module - 1% Dimming		
Current NX Enabled - 1% Dimming**		NXE1
WaveLinux Pro - 1% Dimming** 2 WLXP		
See sensor layout guide		
**(3' min. length. 7' min. length with ECD/EM.)		
1(0-10V standard, consult factory for DALI)		
2(Not available with PD05 and PD15 lenses)		
Mounting		
24" Cable Suspension		C24
48" Cable Suspension		C48
96" Cable Suspension		C96
(Specify canopy color, see finishes page for options. Example: White = C24WH.)		
(Specify one of the following in place of "C" - for 2' canopies at non-feed locations. CS - for sloped ceiling applications.)		
Surface Mount		SM
(Not available with LAW1, CLM1, DLM1, NLT1 or NXE1)		
Factory Options		
(See page 6 for ordering details for DC, EC, EM & ECD.)		
Black Cord		BKCD
Daylight Circuit		_DC
Emergency Circuit		_EC
Emergency Battery Pack		_EM
Emergency Control Device		_ECD
1(120/277 Volt only. EM or ECD not available at corners.)		
Finish		
(See finishes page for The Naturals options)		
Black		BK
Titanium Silver		TS
Matte White Housing		WH
Luminaire/Row Length		
Specify in 1' increments		X'
(Lengths are nominal, up to 12' individuals available. See Run Chart (page 8) for ordering codes. Smaller increments available, consult factory for details. Leave blank for patterns.)		
Pattern Options		
(3' min. length. Not available with Pop-Down lenses. Consult factory for other pattern options.)		
Specify luminaire/row length in 1' increments		X'
'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 - 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 FSM4LS

Shielding

Batwing Lens	BW
Flush Satin Lens	FL
0.5" Pop-Down Lens (750LF max.)	PD05
1.5" Pop-Down Lens (2' - 8' individual units only. 750LF max.)	PD15

Lumen Output

275 Lumens per foot (BW & FL 3' min. with D1TW)	275LF
375 Lumens per foot	375LF
625 Lumens per foot	625LF
750 Lumens per foot (Pop-Down Lens only)	750LF
875 Lumens per foot*	875LF
1000 Lumens per foot*	1000LF
1125 Lumens per foot*	1125LF

*(BW & FL only)

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 4 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.)	
Acuity nLight - 1% Dimming**	NLT1

**(Consult factory)

Mounting

24" Cable Suspension	C24_
48" Cable Suspension	C48_
96" Cable Suspension	C96_

(Specify canopy color, see finishes page for options.)

Example: White = C24WH+
(Specify one of the following in place of "C": J - for 2' canopies at non-feed locations. CS - for sloped ceiling applications.)

Surface Mount

(Not available with NLT1)

Factory Options

(See page 6 for ordering details for DC, EC, EM & ECD.)	
Black Cord	BKCD
Daylight Circuit	_DC
Emergency Circuit	_EC
Emergency Battery Pack†	_EM
Emergency Control Device†	_ECD

†(Consult factory)

Finish

(See finishes page for The Naturals options)

Black	BK
Titanium Silver	TS
Matte White Housing	WH

Luminaire/Row Length

Specify in 1' increments

(Lengths are nominal, up to 8' individuals available. See Run Chart (page 8) for ordering codes. Smaller increments available, consult factory for details. Leave blank for patterns.)

Pattern Options

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

Specify luminaire/row length in 1' increments

'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

9-12' luminaires ship on 13' (157") pallets, forklift extensions of 72" are required to avoid damage. One piece extruded aluminum housing. Die cast aluminum end caps. 2' unit weight: 10 lbs., 3' unit weight: 14 lbs., 4' unit weight: 18 lbs., 5' unit weight: 22 lbs., 12' unit weight: 48 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Flush and Batwing extruded acrylic lens .085" thick with satin finish, up to 12' continuous. Pop-Down lenses extruded acrylic lens .06" thick with frosted finish.

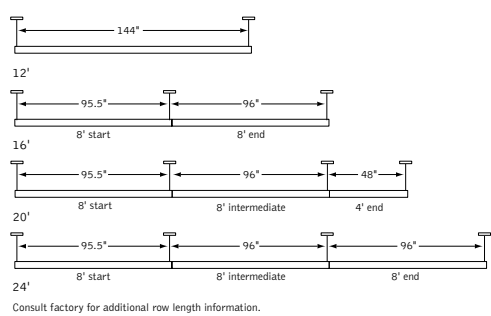
Electrical

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. Dimming range 100% to 10%. 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: 20.18ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFS1, NLT1, CLM1, NXE1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

MOUNTING INFORMATION



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 and cord white as standard. The Naturals: 100% low VOC vinyl.

Lumen Maintenance

Reported: L70 > 61,000 hours Calculated: L70 at > 480,000 hours
 L90 > 61,000 hours L90 at > 128,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

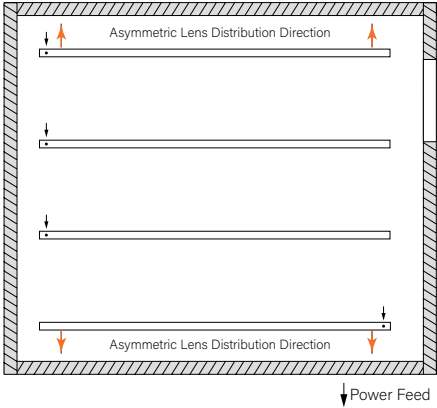
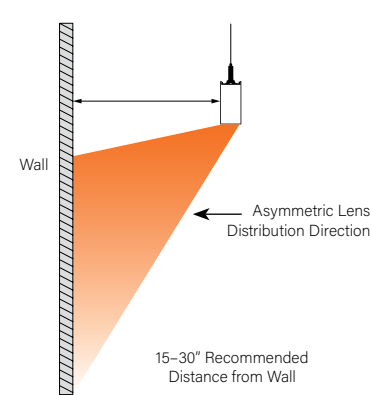
Reliability

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.

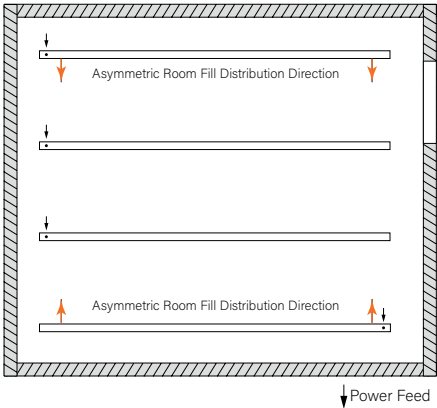
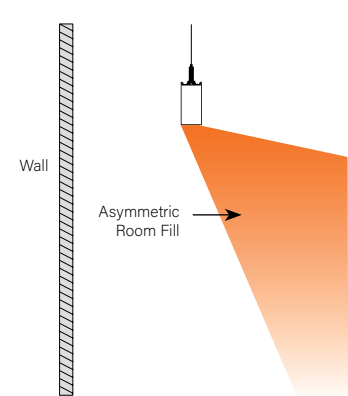
Warranty

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


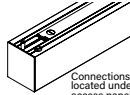





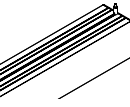





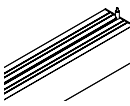

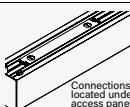



DIRECT ASYMMETRIC
Standard Application Example



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	
 legrand [®] WATTSTOPPER [®]	 <small>Connections located under access panel.</small>	DLM1	LMFC-011	DLM	DLM	Enabled ¹	No	Wired 	Advance by Signify, Optotronic by eldoLED
		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Integrated ²	No	Wireless	Advance by Signify
LMFSD		LMFS-601	Optotronic by eldoLED (Dexal)						
 COOPER Lighting Solutions		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Integrated ²	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
 CRESTRON		D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled ¹	No	Wired	eldoLED ECODrive
		L11		0-10V					Advance by Signify
 ENCELIUM		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled ¹	No	Wireless	Optotronic by eldoLED Advance by Signify
 LUTRON		LAW1	A-WN-D01-RF-WH	DALI, 0-10V	Athena Wireless	Enabled ¹	No	Wireless	Advance by Signify
		LAWS	A-WN-D01-OCC-WH	DALI, 0-10V	Athena Wireless	Integrated ²	No	Wireless	Advance by Signify
		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled ¹	No	Wired	Lutron Hi-Lume
 nLIGHT	 <small>Connections located under access panel.</small>	NLT1	nEPS-60-IO	nLight	nLight	Enabled ¹	No	Wired 	eldoLED ECODrive, eldoLED SOLOdrive
		 NX LIGHTING CONTROLS	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled ¹	No	Wired 

*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

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.

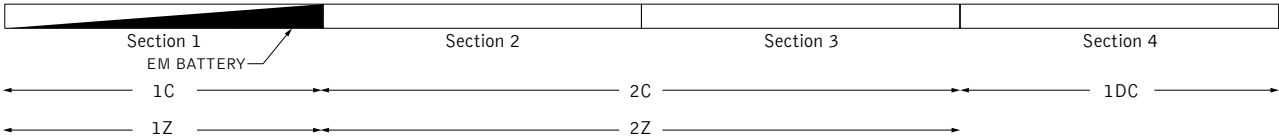
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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		
			SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD
								EM
	1	8	1C	1Z				
	2	8	2C	2Z				
	3	8	2C	2Z				
	4	8				1DC		
	Totals / Ordering Codes		2C	2Z		1DC		1EM

ORDERING: FSM4LS-FL-625LF-35K- 2C2Z -UNV-LD1-C24WH- 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	SEPARATE ELECTRICAL FEEDS			EM
					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

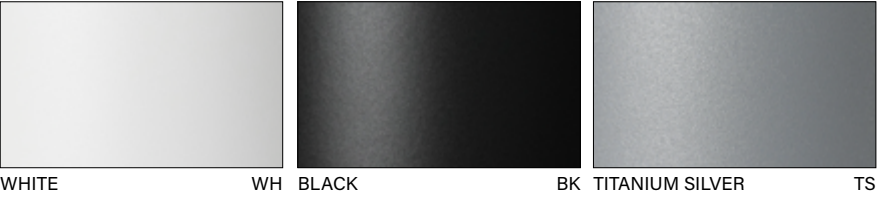
Run Length (ft)	Housing Configuration Section Lengths	Ordering Code	Run Length (ft)	Housing Configuration Section Lengths	Ordering Code	Run Length (ft)	Housing Configuration Section Lengths	Ordering Code
9	5 + 4	9	19	8 + 7 + 4	19	35	8 + 8 + 8 + 7 + 4	35
	9	9(IND)	20	8 + 8 + 4	20	36	8 + 8 + 8 + 8 + 4	36
10	6 + 4	10	21	8 + 8 + 5	21	37	8 + 8 + 8 + 8 + 5	37
	5 + 5	10(5+5)	22	8 + 8 + 6	22	38	8 + 8 + 8 + 8 + 6	38
	10	10(IND)	23	8 + 8 + 7	23	39	8 + 8 + 8 + 8 + 7	39
11	7 + 4	11	24	8 + 8 + 8	24	40	8 + 8 + 8 + 8 + 8	40
	11	11(IND)	25	8 + 8 + 5 + 4	25	41	8 + 8 + 8 + 8 + 5 + 4	41
12	8 + 4	12	26	8 + 8 + 6 + 4	26	42	8 + 8 + 8 + 8 + 6 + 4	42
	6 + 6	12(6+6)	27	8 + 8 + 7 + 4	27	43	8 + 8 + 8 + 8 + 7 + 4	43
	12	12(IND)	28	8 + 8 + 8 + 4	28	44	8 + 8 + 8 + 8 + 8 + 4	44
13	8 + 5	13	29	8 + 8 + 8 + 5	29	45	8 + 8 + 8 + 8 + 8 + 5	45
14	8 + 6	14	30	8 + 8 + 8 + 6	30	46	8 + 8 + 8 + 8 + 8 + 6	46
15	8 + 7	15	31	8 + 8 + 8 + 7	31	47	8 + 8 + 8 + 8 + 8 + 7	47
16	8 + 8	16	32	8 + 8 + 8 + 8	32	48	8 + 8 + 8 + 8 + 8 + 8	48
17	8 + 5 + 4	17	33	8 + 8 + 8 + 5 + 4	33			
18	8 + 6 + 4	18	34	8 + 8 + 8 + 6 + 4	34			

Standard run configurations, consult factory for custom configurations.

Finishes



STANDARD FINISHES



THE NATURALS (25% SCALE)

