

Seem® 4

LED



0.5" pop-down lens



1.5" pop-down lens



wall mount companion



The Naturals collection - Light Oak shown

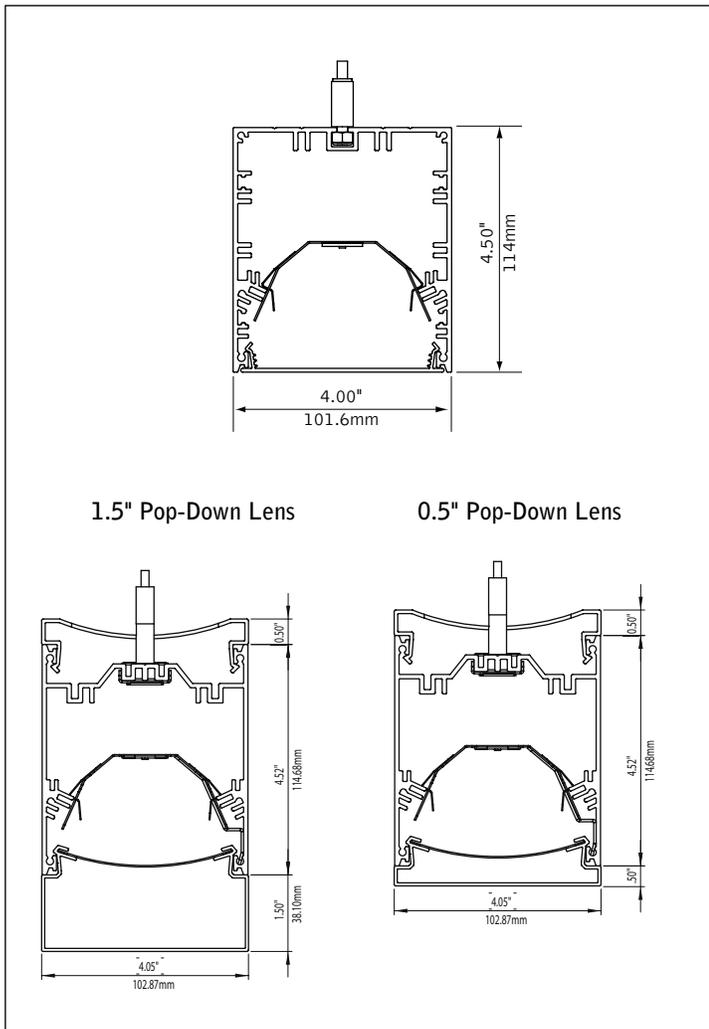


wall to ceiling companion



recessed companion

DIMENSIONAL DATA



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.

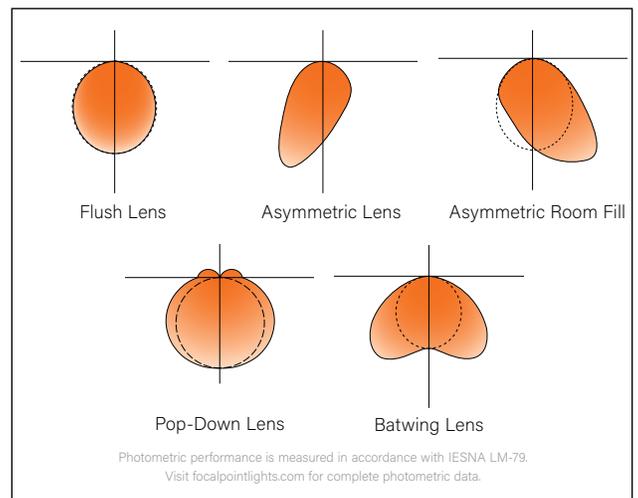
Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

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.

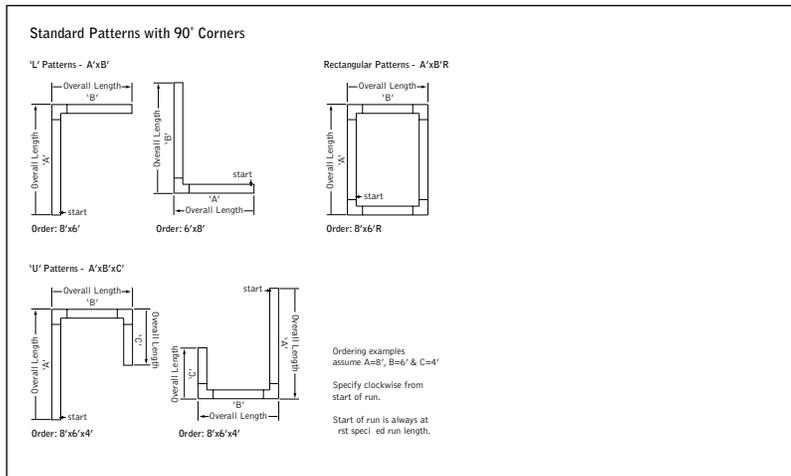
PERFORMANCE



fixture:

project:

DETAILS



4' PERFORMANCE CHART

Lumen Output	Nominal Lumens	BW		FL		AS		AF	
		Tested System Watts	LPW						
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%.

STANDARD WHITE

Luminaire Series

Seem 4 LED

Shielding

Asymmetric Lens

Asymmetric Room Fill

Batwing Lens

Flush Satin Lens

0.5" Pop-Down Lens (1000LF max.)

1.5" Pop-Down Lens

(2' - 12' individual units only. 1000LF max.)

Lumen Output

275 Lumens per foot (Not available with Lutron)

375 Lumens per foot (Not available with LH1)

625 Lumens per foot (3' min. with LH1)

750 Lumens per foot (Pop-Down Lens only)

875 Lumens per foot

1000 Lumens per foot

1125 Lumens per foot (BW & FL only)

1250 Lumens per foot (BW & FL only)

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 4 for multiple circuiting and zoning options

Voltage

120/277 UNV Volt

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.)

Wattstopper PLUS**

Connected Light Module

(0-10V standard. Consult Factory for DALI)

Wattstopper PLUS**

SensiLUM Wireless Sensor

(0-10V standard. Consult Factory for DALI)

Lutron Athena Wireless Node**

(0-10V standard. Consult Factory for DALI)

Lutron Athena Wireless Sensor**

(0-10V standard. Consult Factory for DALI)

Acuity nLight - 1% Dimming**

(Not available with CP)

Current NX Enabled - 1% Dimming**

(Not available with CP)

WaveLinux Pro - 1% Dimming**

See sensor layout guide

** (3' minimum length, with ECD/EM - 7' minimum. Not available with pop-down lenses.)

24" Cable Suspension

48" Cable Suspension

96" Cable Suspension

(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 LAW1, WSPC, NLT1 or NXE1)

Factory Options

(See page 6 for ordering details for DC, EC, EM & ECD.)

Black Cord

Daylight Circuit

Emergency Circuit

Emergency Battery Pack†

Emergency Control Device†

† (120/277 Volt only. EM or ECD not available at corners.)

Finish

(See finishes page for The Naturals options)

Black

Titanium Silver

Matte White Housing

Luminaire/Row Length

Specify in 1' increments

(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

'L' pattern

'U' pattern

Rectangular pattern

FSM4LS

FSM4LS

AS

AF

BW

FL

PD05

PD15

275LF

375LF

625LF

750LF

875LF

1000LF

1125LF

1250LF

27K or 927K

30K or 930K

35K or 935K

40K or 940K

1C

_C_Z_DL

UNV

LV

LD1

L11

LVN

WSPC

WSPS

LAW1

LAWS

NLT1

NXE1

WLXP

C24__

C48__

C96__

SM

BKCD

_DC

_EC

_EM

_ECD

BK

TS

WH

X'

X'

A' x B'

A' x B' x C'

A' x B'R

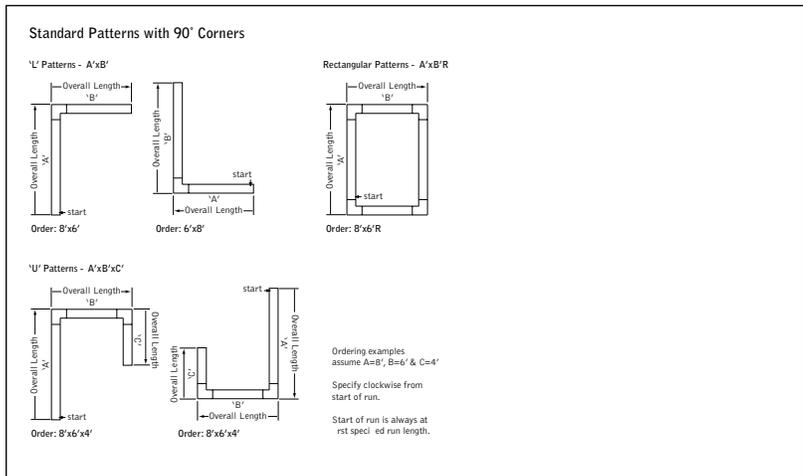


Options in orange qualify for the Quickship program. Run lengths in 1' increments, 1000' total. Refer to Quickship Guide for complete details including EM/EC options.

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 DITW) 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) SM

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 X'

(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 X'
- '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

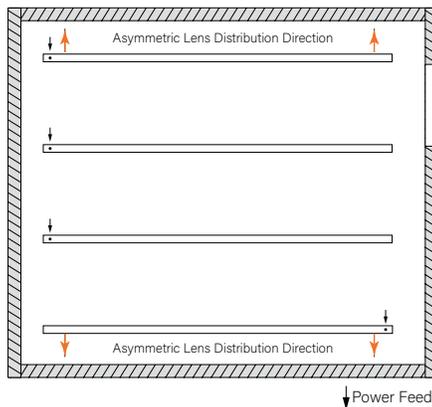
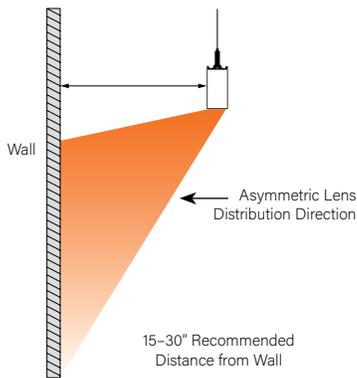
Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Flush and Batwing extruded acrylic lens .085" thick with satin finish, up to 12' continuous. Pop-Down lenses extruded acrylic lens .06" thick with frosted finish.

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.

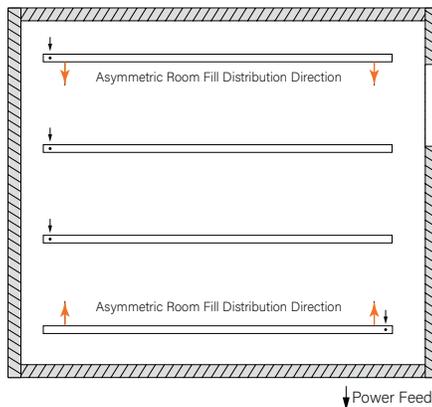
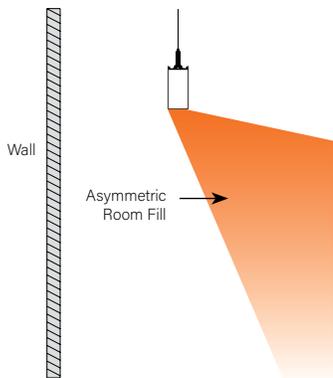
DIRECT ASYMMETRIC

Standard Application Example

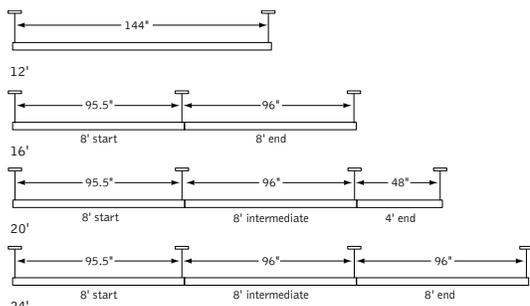


DIRECT ASYMMETRIC ROOM FILL

Standard Application Example



MOUNTING INFORMATION



Consult factory for additional row length information.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 2018ft. Emergency Circuit with Connected Solutions (WSPC, WSPS, NLT1, 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. Canopy and cord white as standard. The Naturals: 100% low VOC vinyl.

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.

Declare.

Seem Linear Luminaires Focal Point, LLC

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

Ingredients:

Aluminum Alloy 6063; UNS G10080 Steel Alloy; Small Electrical Components - RoHS Compliant¹; Copper; Polymethyl methacrylate; Steel; Poly[imino(1,6-dioxo-1,6-hexanedyl)imino-1,6-hexanedyl]; Polyvinyl chloride; Aluminum Alloy 6061; UNS S30400 Stainless Steel Alloy; Steel manufacture, chemicals; 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethyl 2-propenoate; Nylon 6; Benzene, ethenyl-, homopolymer, brominated; Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE); Tris(2-ethylhexyl) trimellitate; Zinc; Methyl methacrylate; Antimony oxide (Antimony trioxide); Kaolin, calcined; Octadecanoic acid, calcium salt; Steel, carbon

¹LBC Temp Exception RL-002 - Small Electrical Components

Living Building Challenge Criteria:

I-13 Red List:

LBC Red List Free % Disclosed: 100% at 100ppm
 LBC Red List Approved VOC Content: Not Applicable
 Declared

I-10 Interior Performance: Not Applicable

I-14 Responsible Sourcing: Not Applicable

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Focal Point provides broad flexibility through compatibility with a wide range of indoor lighting control systems. A variety of sensors, nodes, controllers, and drivers can be specified to scale the system and meet the needs of each application across both wired and wireless networks.

Features such as daylight harvesting, occupancy sensing, dimming, and switching help save energy, reduce costs, and enhance occupant comfort. All Connected Solutions luminaires require a compatible building control system.

Controls systems supplied by others. For performance data and additional control system details, please visit the connected solutions manufacturers websites.

Connected Solution	Ordering Code	Model #	Protocol	Compatible Networks (Not all compatible networks may be listed.)	Description	Occupancy & Daylight	Communication to Luminaire	Drivers (Primary drivers are listed in bold . To specify a particular driver please consult factory.)	Driver Type
WATTSTOPPER®									
	WSPC	EN-ZBHA-CLM-DIM	ZigBee	Wattstopper PLUS	Node	Enabled†	Wireless	Advance by Signify	0-10V standard, consult factory for DALI
	WSPS	EN-CLM-PIR-DD-ZB	ZigBee	Wattstopper PLUS	Sensor	Integrated*	Wireless	Advance by Signify	0-10V standard, consult factory for DALI
	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Sensor	Integrated†	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify	0-10V
	NXE1	NXFM2-LV	NX	NX Distributed Intelligence	Controller	Enabled†	Wired	Optotronic by eldoLED	0-10V
	LAW1	A-WN-D01-RF-WH	Clear Connect	Athena Wireless	Node	Enabled†	Wireless	Advance by Signify	0-10V standard, consult factory for DALI
	LAWS	A-WN-D01-OCC-WH	Clear Connect	Athena Wireless	Sensor	Integrated†	Wireless	Advance by Signify	0-10V standard, consult factory for DALI
	NLT1	nEPS-60-IO	nLight	nLight	Controller	Enabled†	Wired	eldoLED ECOdrive, eldoLED SOLOdrive	0-10V

†Enabled: Luminaire supplied with a node/controller. Sensor to be provided by others.

*Integrated: Luminaire 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.

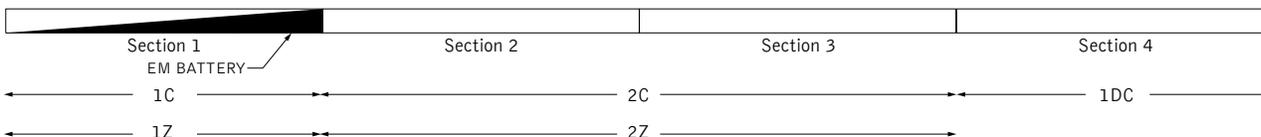
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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.

TOTAL RUN LENGTH: <u>32ft</u>		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	8	1C	1Z					1EM
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

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								

WORKSHEET

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
	6 + 4	10	21	8 + 8 + 5	21	37	8 + 8 + 8 + 8 + 5	37
10	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
	7 + 4	11	24	8 + 8 + 8	24	40	8 + 8 + 8 + 8 + 8	40
11	11	11(IND)	25	8 + 8 + 5 + 4	25	41	8 + 8 + 8 + 8 + 5 + 4	41
	8 + 4	12	26	8 + 8 + 6 + 4	26	42	8 + 8 + 8 + 8 + 6 + 4	42
12	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



WHITE WH BLACK BK TITANIUM SILVER TS

THE NATURALS (25% SCALE)



LIGHT OAK LOK GRAY ELM GRE CHESTNUT CHT WALNUT WLT WOVEN LINEN WLN