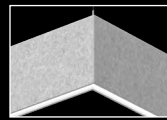
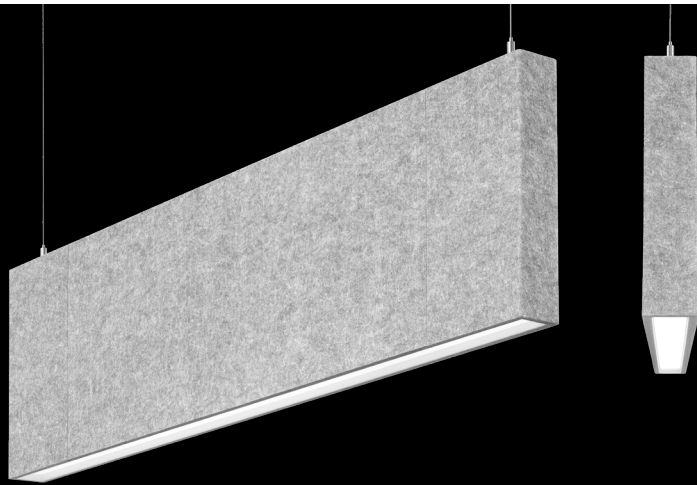
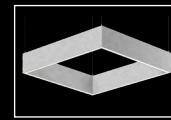


# Seem® 1 Acoustic

LED DIRECT/INDIRECT



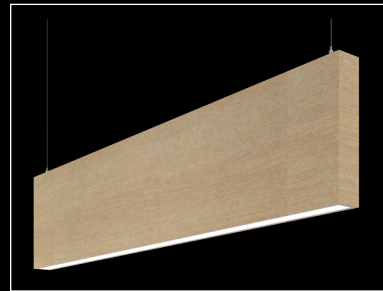
90° corner detail



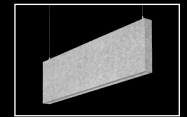
Rectangle pattern



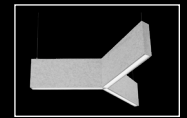
Left and right corner pattern



The Naturals collection - Light Oak shown

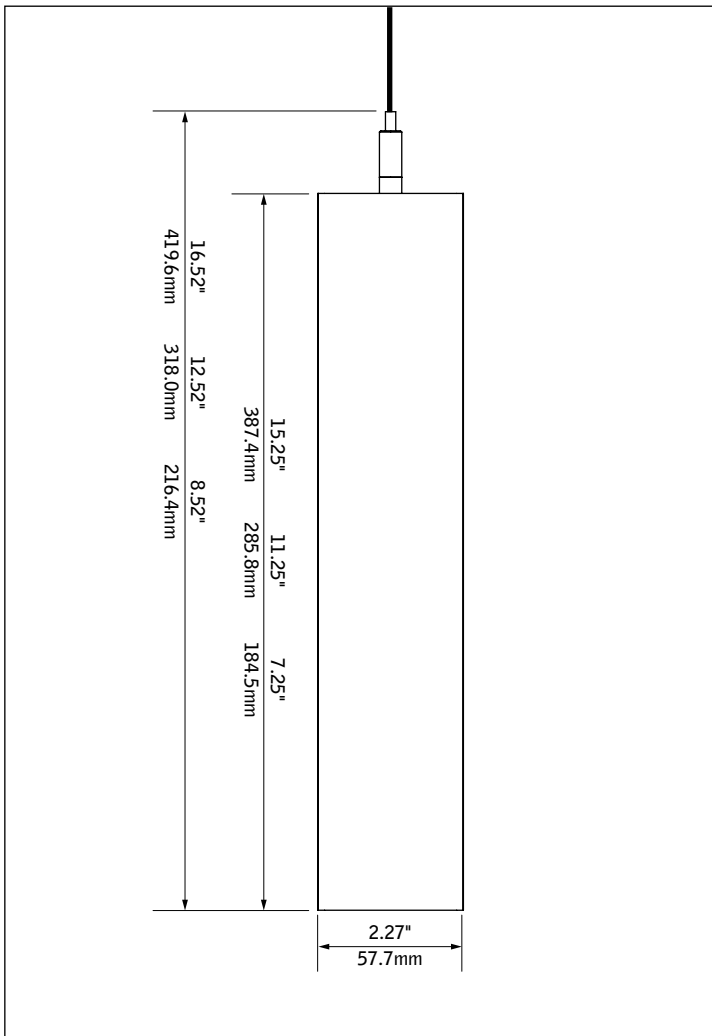


Seem 1 Acoustic Unlit companion



Seem 1 Acoustic Trio companion

## DIMENSIONAL DATA



## FEATURES

Narrow, sound absorbing 1.5" aperture linear direct/indirect acoustic LED luminaire.

Available in 4' to 208' lengths in 1" increments with 8", 12" or 16" nominal housing heights in straight lengths or patterns with 90° corners.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

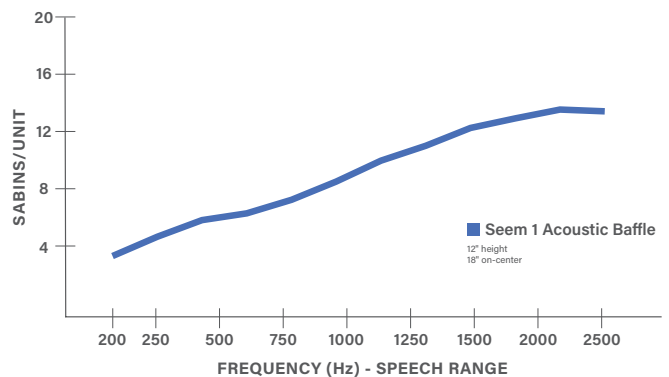
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

AirCore® Technology: patented, eco-friendly technology that maximizes sound absorption and reduces ecological impact.

Pair with Seem 1 Acoustic unlit baffle, Seem 1 Acoustic Trio, AirCore Blade®, or TruBlade® to create a coordinated look in interior spaces.

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

## ACOUSTIC PERFORMANCE

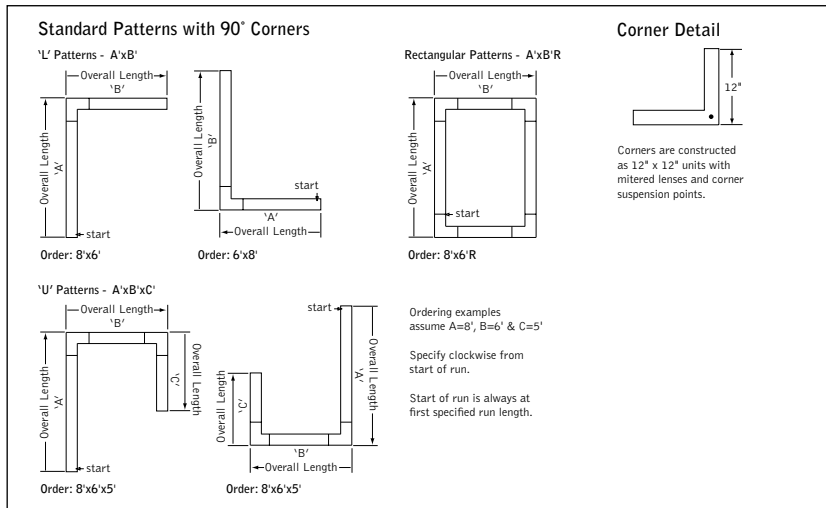


All products were tested in multiple configured arrays. Total absorption will vary based on configuration. Please refer to ASTM C423 reports for more information.

fixture:

project:

### DETAILS



### SPECIFICATIONS

#### Acoustic Material

Content	Housing material is 100% polyester containing up to 50% of recycled plastic bottles (PET felt) and is moisture resistant. See page 3 for color offering. Acoustic material colors are subject to change without notice. For the most current color options, please visit focalpointlights.com/acousticsolutions. Lead times may vary depending on color.
Cleaning and Care	Remove dust and debris with a clean, soft, lint-free cloth or vacuum
PET Thickness	9mm
Surface Burning	ASTM E84 Class A / CAN ULC S102
Characteristics	Flame Spread: 0, Smoke Development Index: 300

#### Acoustic Performance

Acoustic testing is performed on all Focal Point acoustic products and varies based on installation and configuration. ASTM C423 test reports can be downloaded from focalpointlights.com. Contact acoustic.solutions@focalpointlights.com for technical questions.

Sabins	Sabins is a unit of sound absorption. It measures how well one square foot of material absorbs sound. Focal Point has averaged the Sabins per unit at four specific frequency bands representing the human speech range (250, 500, 1000, 2000 Hz) to determine the Sabins per product. 8' length, 12" height: 12" OC = 5.08 Sabins, 18" OC = 9.05 Sabins, 24" OC = 9.46 Sabins
--------	---

#### 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 both 80 and 90 CRI options. LED drivers are replaceable from above. Color accuracy <3 SDCM.

**Weight** - 12" height, 4' length = 13.38lbs. 12" height, 6' length = 19.51lbs. 12" height, 8' length = 25.64lbs.

#### Optic

Reflectors fabricated of 22 Ga. steel finished in Matte White powder coat. Extruded acrylic lens .05" thick with frosted finish, up to 8' continuous. .002" thick clear acrylic dust cover.

#### Mounting

Minimum mounting height 7.5" from the ceiling.

#### 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. Power cord white as standard.

#### Canopy

Polyester powder coat applied over a multi-stage pre-treatment. Canopy white as standard.

#### Emergency Battery

Emergency output - 10 watts for 90 minutes. Maximum mounting height: 16.83ft.

#### Labels

ETL listed in accordance with UL standards. Suitable for Dry Locations, indoor use only.

#### Lumen Maintenance

Reported: L70 at >61,000 hours      Calculated: L70 at 470,000 hours  
L90 at >61,000 hours      L90 at 115,000 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 and when mounted no less than 7.5" from the ceiling. 5-year limited warranty.

### 4' PERFORMANCE CHART

See page 4



Options in orange qualify for the Quickship program. Five color options. Available in 4', 6', 8', 10', 12', 14', 16' lengths. Maximum linear feet is 200' of acoustic products per order. Refer to Quickship Guide for complete details.

### ORDERING

#### Luminaire Series

Seem 1 Acoustic Direct/Indirect LED ASM1BS

#### Shielding

Batwing Optic Top/Asymmetric Wall Wash Bottom BWAS  
Batwing Optic Top/Batwing Lens Bottom BWBW  
Batwing Optic Top/Regress Lens BWRL  
Dust Cover Top/Asymmetric Wall Wash Bottom DCAS  
Dust Cover Top/Batwing Lens Bottom DCBW  
Dust Cover Top/Regress Lens DCRL

#### Luminaire Height

(heights are nominal)

8"	8
12"	12
16"	16

#### Direct Distribution

100 Lumens per foot (Consult factory for Lutron & DALI)	100DN
200 Lumens per foot	200DN
300 Lumens per foot	300DN
400 Lumens per foot	400DN
500 Lumens per foot	500DN

#### Indirect Distribution

125 Lumens per foot (Consult factory for Lutron & DALI)	125UP
250 Lumens per foot	250UP
375 Lumens per foot	375UP
500 Lumens per foot	500UP
625 Lumens per foot	625UP
800 Lumens per foot (Not available with D11)	800UP

#### Color Temperature

2700K, 80CRI or 90CRI	27K or 927K
3000K, 80CRI or 90CRI	30K or 930K
3500K, 80CRI or 90CRI	35K or 935K
4000K, 80CRI or 90CRI	40K or 940K

#### Circuits & Zones

1 Circuit, non-emergency 1C  
2 non-emergency circuits provide independent control of Direct and Indirect sources 2C  
Consult Ordering Guide on page 5 for multiple circuiting and zoning options \_C\_Z\_DL

#### Voltage

120/277 UNV Volt UNV

#### Control System & Dimming Level

0-10V - 10% Dimming	LD1
0-10V - 1% Dimming	L11
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
DALI 1% Dimming	D11

#### Mounting

(Mounting hang kits ship with order. Power cable is 18" longer than suspension length. Consult factory for longer power cable lengths.)

24" Cable Suspension	J24__
48" Cable Suspension	J48__
96" Cable Suspension	J96__
120" Cable Suspension	J120__

(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.)  
(Consult factory for sloped ceiling applications)

#### Factory Options

(See Ordering Guide on page 5 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
---------------------------	------

†(6' minimum length. Consult factory for available options.)

#### Acoustic Panel Color

See page 3 for color offering

#### Luminaire Length

(Leave blank for patterns. Luminaires are 3/4" longer than specified and cannot be cut to length or joined in the field.)

Specify length in 1" increments from 4' to 208'	_ft _in
---	---------

#### Pattern Options

(Patterns available with LD1 and L11 drivers only.)  
(5' minimum leg length for L patterns, 6' minimum leg length for U and Rectangle patterns)

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

(Consult factory for other pattern options)

# Acoustic Materials



## THE NATURALS (25% SCALE)



LIGHT OAK      LOK    GRAY ELM      GRE    CHESTNUT      CHT    WALNUT      WLT

## STANDARD PET



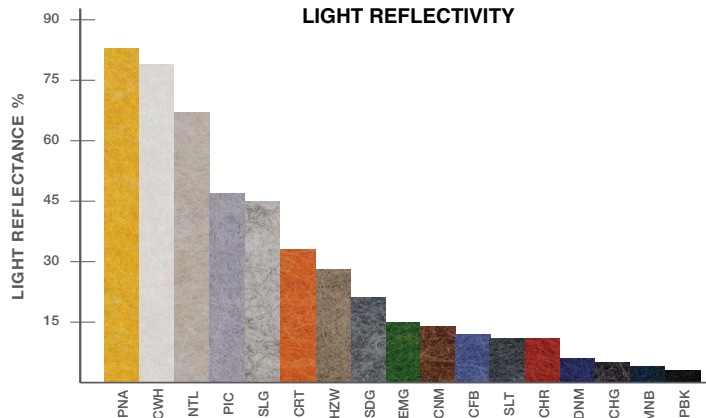
PURE BLACK    PBK    CHARCOAL GRAY    CHG  
 SLATE    SLT    SHADOW GRAY    SDG  
 SILVER GRAY    SLG    PEARL ICE    PIC  
 CLASSIC WHITE    CWH    NATURAL LINEN    NTL  
 HAZELWOOD    HZW

## PREMIUM PET



CORNFLOWER BLUE    CFB    DENIM BLUE    DNB    MIDNIGHT BLUE    MNB    DEEP PURPLE    DPP  
 BRICK RED    BRD    CHERRY RED    CHR    BERRY    BRY    BLUSH    BLS  
 DEEP WATER    DWT    SEAFOAM    SFM    EMERALD GREEN    EMG  
 CARROT    CRT    PINEAPPLE    PNA  
 CINNAMON    CNM    LIMESTONE    LMS

## LIGHT REFLECTIVITY



# Declare.

**PET**  
Focal Point, LLC

Final Assembly: Chicago, Illinois, USA  
 Life Expectancy: 30 Year(s)  
 End of Life Options: Salvageable/Reusable in its Entirety, Recyclable (100%)

### Ingredients:

**Polyethylene terephthalate:** PET; **N, N'-Ethylene bisstearamide:** Octadecanamide, N,N'-1,2-ethanediylbis-; **Stearic Acid:** Stearic Acid; **Antioxidant 1076:** Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester; **Antioxidant KY-405:** Benzenamine, 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]; **Titanium Dioxide:** Titanium dioxide

### 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 Compliant  
**I-14 Responsible Sourcing:** Not Applicable

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INTERNATIONAL LIVING FUTURE INSTITUTE™ [living-future.org/declare](http://living-future.org/declare)

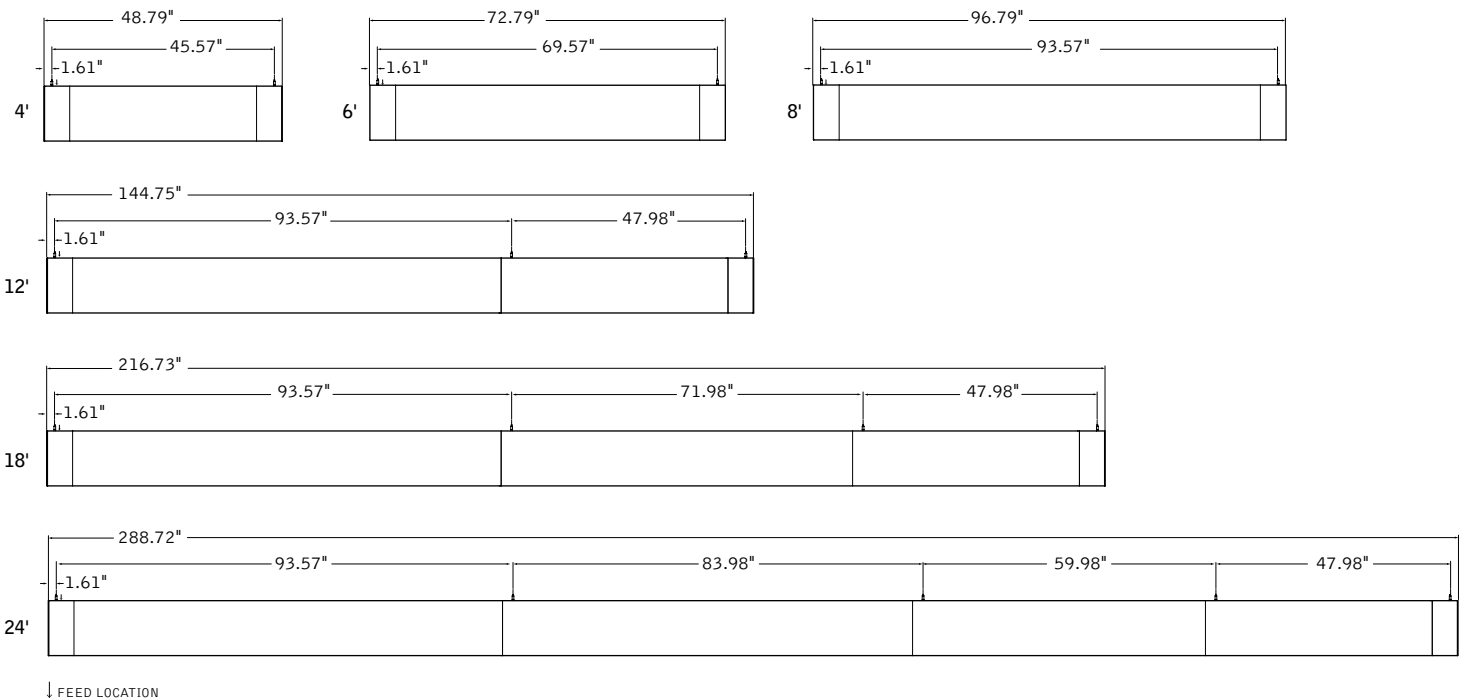


**4' PERFORMANCE CHART - BATWING OPTIC TOP/REGRESS LENS BOTTOM**

Direct Distribution	Indirect Distribution	Distribution % (Direct/Indirect)	Total Delivered Lumens	Tested System Watts	Lumens per Watt (LPW)					
										
					BWRL	BWS	BWBW	DCRL	DCAS	DCBW
100DN	125UP	44/56	900	12	84	93	90	81	91	88
	250UP	29/71	1400	14	101	109	107	98	106	104
	375UP	21/79	1900	17	110	116	114	110	116	114
	500UP	17/83	2400	20	116	122	120	116	122	120
	625UP	14/86	2900	24	120	125	124	120	125	124
	800UP	11/89	3600	29	121	124	123	120	124	123
200DN	125UP	62/38	1300	16	90	100	96	88	98	94
	250UP	44/56	1800	17	103	112	108	101	110	106
	375UP	35/65	2300	21	110	118	114	110	118	114
	500UP	29/71	2800	24	115	122	119	115	122	119
	625UP	24/76	3300	27	119	125	122	119	125	122
	800UP	20/80	4000	33	119	124	122	119	124	122
300DN	125UP	71/29	1700	20	93	104	99	91	103	97
	250UP	55/45	2200	21	103	114	109	101	112	107
	375UP	44/56	2700	24	109	118	114	109	118	114
	500UP	38/63	3200	28	114	122	118	114	122	118
	625UP	32/68	3700	31	117	125	121	117	125	121
	800UP	27/73	4400	37	118	124	121	118	124	121
400DN	125UP	76/24	2100	24	94	108	101	93	106	100
	250UP	62/38	2600	25	102	116	110	101	114	108
	375UP	52/48	3100	29	108	119	114	108	119	114
	500UP	44/56	3600	32	112	122	118	112	122	117
	625UP	39/61	4100	35	115	125	120	115	124	120
	800UP	33/67	4800	41	116	124	120	116	124	120
500DN	125UP	80/20	2500	28	94	110	103	93	109	102
	250UP	67/33	3000	29	101	117	110	100	115	109
	375UP	57/43	3500	33	106	120	114	106	120	114
	500UP	50/50	4000	36	110	122	117	110	122	117
	625UP	44/56	4500	39	113	124	120	113	124	119
	800UP	38/62	5200	45	114	124	120	114	124	120

\*Based on 3500k, 80CRI, 4' lengths. Lumen multipliers: Dust Cover Top = 1.23, 90 CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

**MOUNTING DETAILS (see Run Chart on following page for number of hang points per run)**



# 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.

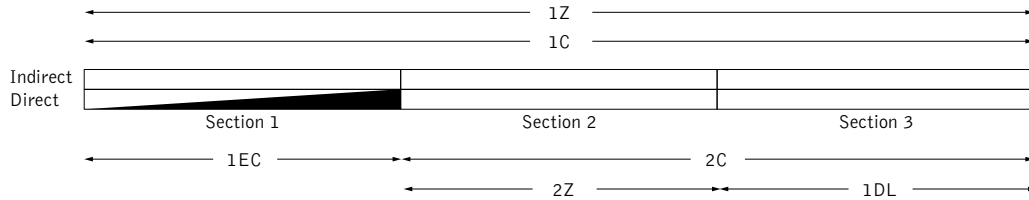
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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: 24ft		JOB NAME: _____				FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	LIGHT DISTRIBUTION	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
			SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1	8	Indirect	1C	1Z					
		Direct					1EC		
2	8	Indirect	1C	1Z					
		Direct	2C	2Z					
3	8	Indirect	1C	1Z					
		Direct	2C		1DL				
<b>Totals / Ordering Codes</b>			<b>2C</b>	<b>2Z</b>	<b>1DL</b>		<b>1EC</b>		

ORDERING: FSM4BS-FL-625UP-125DN-35K- **2C2Z1DL** -UNV-LD1-C24- **1EC** -WH-24ft



### 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

**ECD = Emergency Control Device**  
Unswitched Hot / Separate Neutral

**EM = Emergency Battery**  
Unswitched Hot / Shared Neutral

### DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- EC, EM, and ECD only available for direct distribution.
- One shared or isolated circuit and zone required per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Limit of one EM or ECD per housing section.
- Each EC, DC 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	LIGHT DISTRIBUTION	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
			SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1		Indirect							
		Direct							
2		Indirect							
		Direct							
3		Indirect							
		Direct							
4		Indirect							
		Direct							
5		Indirect							
		Direct							
6		Indirect							
		Direct							
7		Indirect							
		Direct							
8		Indirect							
		Direct							
9		Indirect							
		Direct							
10		Indirect							
		Direct							
11		Indirect							
		Direct							
12		Indirect							
		Direct							
<b>Totals / Ordering Codes</b>									

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

## RUN CHART

Run length (ft)	Housing Configuration Section Lengths	# of hang points per run
9	5 + 4	3
10	6 + 4	3
11	7 + 4	3
12	8 + 4	3
13	8 + 5	3
14	8 + 6	3
15	8 + 7	3
16	8 + 8	3
17	8 + 5 + 4	4
18	8 + 6 + 4	4
19	8 + 7 + 4	4
20	8 + 7 + 5	4
21	8 + 7 + 6	4
22	8 + 7 + 7	4
23	8 + 7 + 8	4
24	8 + 7 + 5 + 4	5
25	8 + 7 + 6 + 4	5
26	8 + 7 + 7 + 4	5
27	8 + 7 + 7 + 5	5
28	8 + 7 + 7 + 6	5

Run length (ft)	Housing Configuration Section Lengths	# of hang points per run
29	8 + 7 + 7 + 7	5
30	8 + 7 + 7 + 8	5
31	8 + 7 + 7 + 5 + 4	6
32	8 + 7 + 7 + 6 + 4	6
33	8 + 7 + 7 + 7 + 4	6
34	8 + 7 + 7 + 7 + 5	6
35	8 + 7 + 7 + 7 + 6	6
36	8 + 7 + 7 + 7 + 7	6
37	8 + 7 + 7 + 7 + 8	6
38	8 + 7 + 7 + 7 + 5 + 4	7
39	8 + 7 + 7 + 7 + 6 + 4	7
40	8 + 7 + 7 + 7 + 7 + 4	7
41	8 + 7 + 7 + 7 + 7 + 5	7
42	8 + 7 + 7 + 7 + 7 + 6	7
43	8 + 7 + 7 + 7 + 7 + 7	7
44	8 + 7 + 7 + 7 + 7 + 8	7
45	8 + 7 + 7 + 7 + 7 + 5 + 4	8
46	8 + 7 + 7 + 7 + 7 + 6 + 4	8
47	8 + 7 + 7 + 7 + 7 + 7 + 4	8
48	8 + 7 + 7 + 7 + 7 + 7 + 5	8

Standard run configurations, consult factory for custom configurations and longer run lengths.