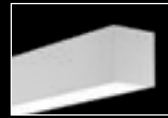


Seem® 4

LED DIRECT/INDIRECT WALL MOUNT



flush lens
top & bottom



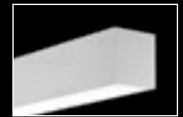
0.5" pop-up lens /
flush lens bottom



linear suspended
companion



The Naturals collection - Light Oak shown

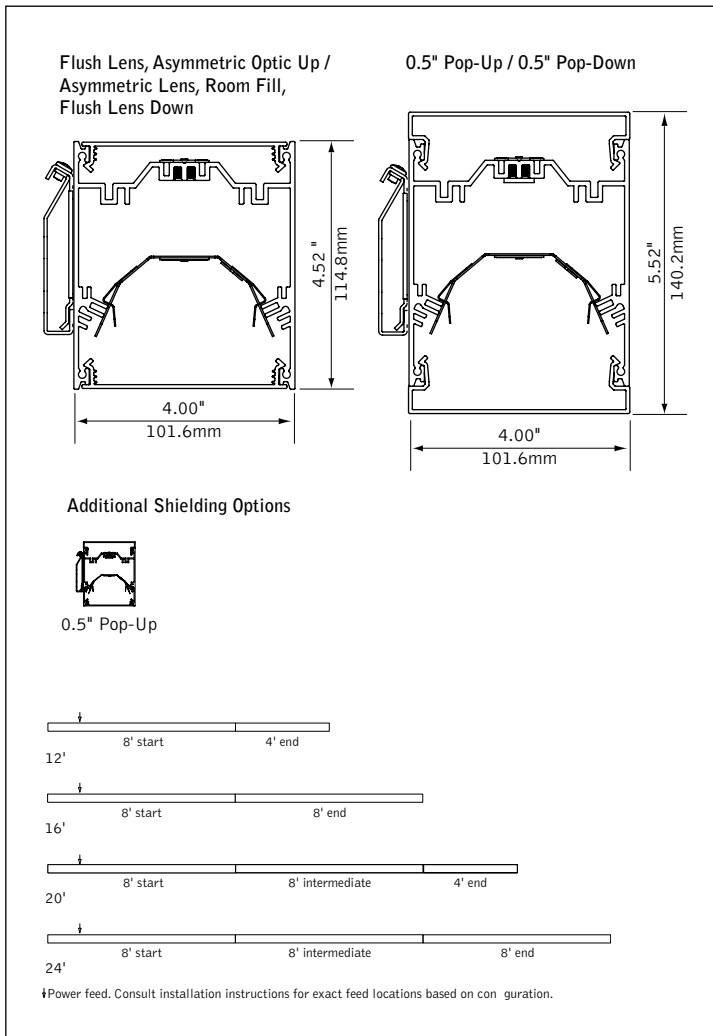


direct only
companion



wall to ceiling
corner companion

DIMENSIONAL DATA



FEATURES

Narrow extruded aluminum 4" direct/indirect wall mount LED Pop-lens options.

Individual units and continuous runs in 1' increments.

Frosted acrylic lenses provide uninterrupted illumination, without pixels or shadows.

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

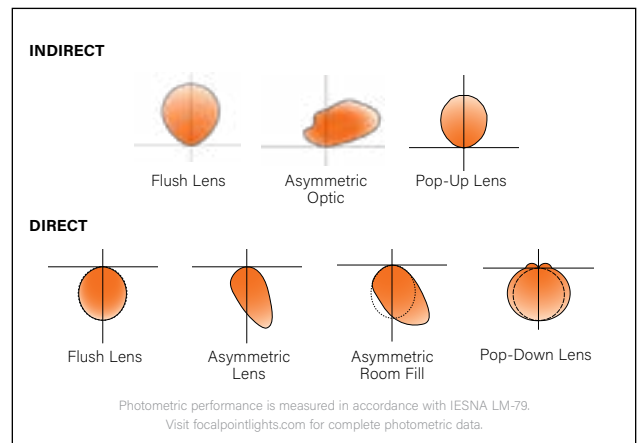
Choice of output levels and light distributions to meet a wide variety of application needs.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

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

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

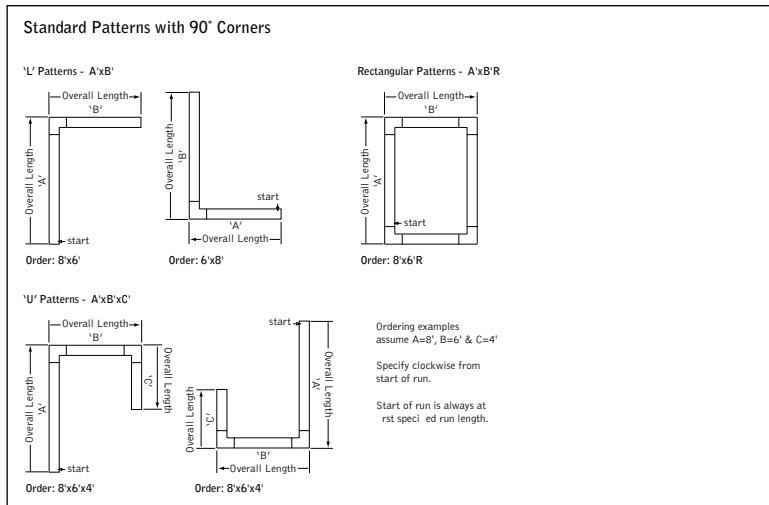
PERFORMANCE



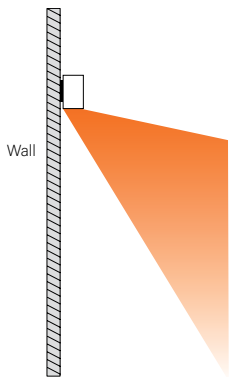
fixture:

project:

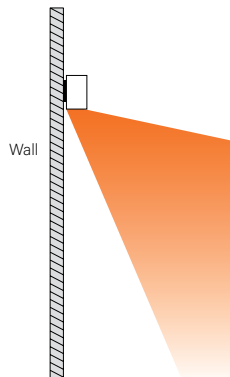
DETAILS



DIRECT ASYMMETRIC
Standard Application Example



DIRECT ASYMMETRIC ROOM FILL
Standard Application Example



Asymmetric Room Fill Lens
The asymmetric room fill optic projects light into the space to evenly illuminate horizontal planes. It is ideal to light rooms and corridors from the perimeter, resulting in superior efficacy and uniformity on the floor.

STANDARD WHITE

Luminaire Series

FSM4BW

Seem 4 Direct/Indirect LED FSM4BW

Shielding

(Combine Indirect and Direct options to create a single code.)

Indirect/Top Shielding Options

- Asymmetric Optic AS
- Flush Lens FL
- 0.5" Pop-Up Lens PU

Direct/Bottom Shielding Options

- Asymmetric Lens AS
- Asymmetric Room Fill AF
- Flush Lens Bottom FL
- 0.5" Pop-Down Bottom PD05

Direct Distribution

- 275 Lumens per foot 275DN
- 375 Lumens per foot 375DN
- 625 Lumens per foot 625DN
- 875 Lumens per foot 875DN
- 1000 Lumens per foot* 1000DN
- 1125 Lumens per foot* 1125DN
- 1250 Lumens per foot* 1250DN

*(Not available with Pop Down Lens)

Indirect Distribution

- 275 Lumens per foot 275UP
- 375 Lumens per foot 375UP
- 625 Lumens per foot 625UP
- 875 Lumens per foot 875UP
- 1000 Lumens per foot 1000UP
- 1125 Lumens per foot* 1125UP
- 1250 Lumens per foot* 1250UP

*(Not available with Pop-Up or Pop-Down Lenses)

Color Temperature

- 2700K, 80+ CRI or 2700K, 90+ CRI 27K or 927K
- 3000K, 80+ CRI or 3000K, 90+ CRI 30K or 930K
- 3500K, 80+ CRI or 3500K, 90+ CRI 35K or 935K
- 4000K, 80+ CRI or 4000K, 90+ CRI 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 4 for multiple circuiting and zoning options

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 LVN

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

- Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming LH1
- DALI - 1% Dimming D11

(625 lumens per foot max.)

Mounting

- Wall Mount WM

Factory Options

(See Ordering Guide on page 4 for ordering details for DC, EC, EM & ECD.)

- Daylight Circuit _DC

- Emergency Circuit _EC

- Emergency Battery Pack† _EM

- Emergency Control Device† _ECD

†(4' minimum. 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 Length

(3' minimum length. Leave blank for patterns. Lengths are nominal)

- Specify luminaire/row length in ' increments X'

(Smaller increments available. Consult factory.)

Pattern Options

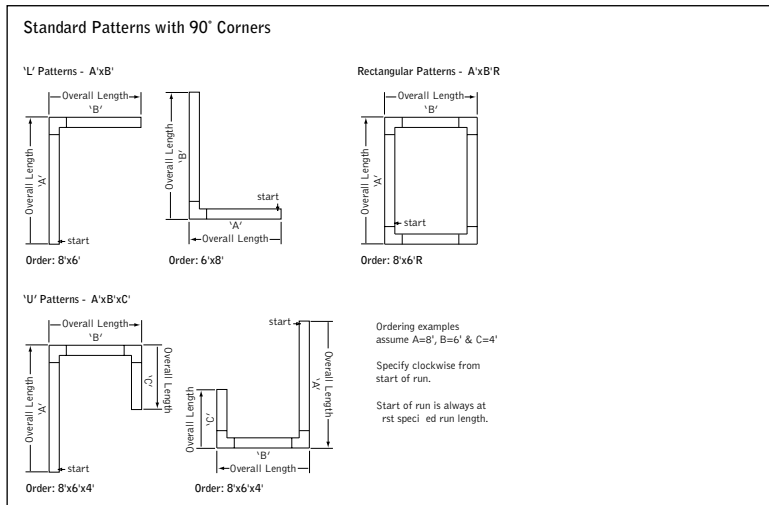
- 'L' pattern (5' minimum length) A' x B'
- 'U' pattern (7' minimum length) A' x B' x C'
- Rectangular pattern (7' minimum length) A' x B'R

(Consult factory for other pattern options)



Options in orange qualify for the Quickship program. Run lengths in ' increments, 1000' total. Refer to Quickship Guide for complete details.

DETAILS



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 3000K, 3500K or 4000K with >80 or 90 CRI, 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. Die cast aluminum end caps.
3' unit weight: 14.5lbs, 4' unit weight: 19lbs., 5' unit weight: 25lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 8' continuous.

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 Battery

Bodine BSL310LP. Emergency output - 10 watts for 90 minutes.
Maximum mounting height: 14.12ft

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. The Naturals: 100% low VOC vinyl.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 395,000 hours
Reported: L90 at >61,000 hours Calculated: L90 at 100,000 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.



TUNABLE WHITE

Luminaire Series
Seem 4 Direct/Indirect LED
Shielding

FSM4BW

(Combine Indirect and Direct options to create a single code.)

Indirect/Top Shielding Options | Flush Lens FL
0.5" Pop-Up Lens PU

Direct/Bottom Shielding Options | Flush Lens Bottom FL
0.5" Pop-Down Bottom PD05

Direct Distribution

275 Lumens per foot 275DN
(4' min with LT1 and FLFL or PUFL)
375 Lumens per foot 375DN
625 Lumens per foot 625DN
875 Lumens per foot 875DN
1000 Lumens per foot* 1000DN
1125 Lumens per foot* 1125DN
*(Not available with Pop Down Lens)

Indirect Distribution

275 Lumens per foot 275UP
(4' min with LT1)
375 Lumens per foot 375UP
625 Lumens per foot 625UP
875 Lumens per foot 875UP
1000 Lumens per foot 1000UP
1125 Lumens per foot 1125UP
(Not available with Pop-Up or Pop-Down lenses)

Color Temperature

Tunable White: 2700-6500K, 80+ CRI 2765T
Tunable White: 2700-6500K, 90+ CRI 92765T

Circuits & Zones

1 Circuit, non-emergency 1C
2 non-emergency circuits provide independent control of Direct and Indirect sources 2C
Consult Ordering Guide for multiple circuiting and zoning options _C_Z_DL

Voltage

120/277 UNV Volt UNV

Control System & Dimming Level

Lutron T-Series - 1% Dimming LT1
DALI - 1% Dimming DITW
(DT6 control. Requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8.)

Mounting

Wall Mount WM

Factory Options

(See Ordering Guide on page 4 for ordering details for DC, EC, EM & ECD.)

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 Length

(3' minimum length. Leave blank for patterns. Lengths are nominal)

Specify luminaire/row length in 1' increments X'
(Smaller increments available. Consult factory)

Pattern Options

'L' pattern (5' minimum length) A' x B'
'U' pattern (7' minimum length) A' x B' x C'
Rectangular pattern (7' minimum length) A' x B'R
(Consult factory for other pattern options)





4' PERFORMANCE CHART

Direct Distribution	Indirect Distribution	Distribution % (Direct/Indirect)	Total Nominal Lumens	Tested System Watts	Lumens Per Watt (LPW)									Tested System Watts	Lumens Per Watt (LPW)		
					ASAS	ASAF	ASFL	FLAS	FLAF	FLFL	PUAS	PUAF	PUFL		ASP005	FLPD05	PUPD05
275DN	275	50/50	2200	18.2										21.2	106	106	100
	375	42/58	2600	20.8										23.8	113	110	104
	625	31/69	3600	27.9										30.9	123	119	106
	875	24/76	4600	36.0										39.0	124	120	107
	1000	22/78	5100	40.0										43.0	125	120	108
	1125	20/80	5600	44.0							—	—	—	47.0	126	121	—
	1250	18/82	6100	46.9							—	—	—	49.9	128	122	—
375DN	275	58/42	2600	21.2										25.4	104	105	99
	375	50/50	3000	23.8										28.0	111	109	103
	625	38/62	4000	30.9										35.1	120	116	105
	875	30/70	5000	39.0										43.2	122	117	106
	1000	27/73	5500	43.0										47.1	123	118	108
	1125	25/75	6000	47.0							—	—	—	51.2	124	119	—
625DN	1250	23/77	6500	49.9							—	—	—	54.1	126	120	—
	275	69/31	3600	30.1										38.5	98	98	95
	375	63/37	4000	32.6										41.1	102	101	97
	625	50/50	5000	39.8										48.2	110	108	100
	875	42/58	6000	47.8										56.3	113	110	102
	1000	38/62	6500	51.8										60.2	115	111	103
	1125	36/64	7000	55.9							—	—	—	64.3	116	112	—
875DN	1250	33/67	7500	58.8							—	—	—	67.2	118	113	—
	275	76/24	4600	39.1										49.3	97	97	95
	375	70/30	5000	41.7										51.9	101	100	97
	625	58/42	6000	48.8										59.0	108	106	100
	875	50/50	7000	56.9										67.1	110	108	101
	1000	47/53	7500	60.8										71.0	112	109	102
1000DN	1125	44/56	8000	64.9							—	—	—	75.1	113	110	—
	1250	41/59	8500	67.8							—	—	—	78.0	115	111	—
	275	78/22	5100	43.7										—	—	—	—
	375	73/27	5500	46.2										—	—	—	—
	625	62/38	6500	53.4										—	—	—	—
	875	53/47	7500	61.4										—	—	—	—
	1000	50/50	8000	65.4										—	—	—	—
1125DN	1125	47/53	8500	69.5							—	—	—	—	—	—	—
	1250	44/56	9000	72.4							—	—	—	—	—	—	—
	275	80/20	5600	48.3										—	—	—	—
	375	75/25	6000	50.9										—	—	—	—
	625	64/36	7000	58.0										—	—	—	—
	875	56/44	8000	66.0										—	—	—	—
1250DN	1000	53/47	8500	70.0										—	—	—	—
	1125	50/50	9000	74.1							—	—	—	—	—	—	—
	1250	47/53	9500	77.0							—	—	—	—	—	—	—
	275	82/18	6100	52.1										—	—	—	—
	375	77/23	6500	54.7										—	—	—	—
	625	67/33	7500	61.8										—	—	—	—
1250DN	875	59/41	8500	69.9										—	—	—	—
	1000	56/44	9000	73.8										—	—	—	—
	1125	53/47	9500	77.9							—	—	—	—	—	—	—
	1250	50/50	10000	80.8							—	—	—	—	—	—	—

*Based on 3500K, 4' lengths. *Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%. Pop-Up Lens/Pop-down lens lumen output may vary +/- 5%.



4' PERFORMANCE CHART

Direct Distribution	Indirect Distribution	Distribution % (Direct/Indirect)	Total Nominal Lumens	Tested System Watts	Lumens Per Watt (LPW)	Tested System Watts	Lumens Per Watt (LPW)	Tested System Watts	Lumens Per Watt (LPW)	Tested System Watts	Lumens Per Watt (LPW)
					 FLFL		 PUFL		 FLPD05		 PUPD05
275DN	275	50/50	2200	24.5	90	26.3	84	28.1	78	29.9	74
	375	42/58	2600	28.7	91	30.3	86	32.3	81	33.8	77
	625	31/69	3600	37.8	96	40.8	89	41.4	87	44.4	81
	875	24/76	4600	46.1	100	51.8	89	49.7	93	55.4	83
	1000	22/78	5100	52.4	98	57.0	90	56.0	91	60.6	84
	1125	20/80	5600	57.0	99	—	—	60.6	93	—	—
375DN	275	58/42	2600	28.5	91	30.3	86	33.4	77	35.2	74
	375	50/50	3000	32.7	92	34.2	88	37.6	80	39.2	76
	625	38/62	4000	41.8	96	44.8	90	46.8	86	49.8	80
	875	30/70	5000	50.1	100	55.8	90	55.0	91	60.8	82
	1000	27/73	5500	56.4	98	61.0	90	61.4	90	65.9	83
	1125	25/75	6000	61.0	99	—	—	65.9	91	—	—
625DN	275	69/31	3600	38.8	93	40.6	89	46.0	78	47.8	75
	375	63/37	4000	43.0	93	44.6	90	50.2	80	51.8	77
	625	50/50	5000	52.2	96	55.1	91	59.3	84	62.3	80
	875	42/58	6000	60.4	99	66.2	91	67.6	89	73.3	82
	1000	38/62	6500	66.8	98	71.3	91	73.9	88	78.5	83
	1125	36/64	7000	71.3	98	—	—	78.5	89	—	—
875DN	275	76/24	4600	47.7	96	49.5	93	61.7	75	63.5	73
	375	70/30	5000	51.9	96	53.5	93	65.9	76	67.5	74
	625	58/42	6000	61.0	98	64.0	94	75.1	80	78.0	77
	875	50/50	7000	69.3	101	75.0	93	83.3	84	89.1	79
	1000	47/53	7500	75.6	99	80.2	93	89.7	84	94.2	80
	1125	44/56	8000	80.2	100	—	—	94.2	85	—	—
1000DN	275	78/22	5100	54.6	93	56.4	90	—	—	—	—
	375	73/27	5500	58.8	94	60.4	91	—	—	—	—
	625	62/38	6500	67.9	96	70.9	92	—	—	—	—
	875	53/47	7500	76.2	98	82.0	92	—	—	—	—
	1000	50/50	8000	82.5	97	87.1	92	—	—	—	—
	1125	47/53	8500	87.1	98	—	—	—	—	—	—
1125DN	275	80/20	5600	59.9	93	61.7	91	—	—	—	—
	375	75/25	6000	64.1	94	65.7	91	—	—	—	—
	625	64/36	7000	73.3	95	76.3	92	—	—	—	—
	875	56/44	8000	81.5	98	87.3	92	—	—	—	—
	1000	53/47	8500	87.9	97	92.4	92	—	—	—	—
	1125	50/50	9000	92.4	97	—	—	—	—	—	—

*Based on 2700k, 80CRI, 4' lengths. *Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%. Pop-Up Lens/Pop-down lens lumen output may vary +/- 5%

Lumen Multipliers

CRI	Multiplier
80+	1.00
90+	0.89

Wattage Multipliers

CCT	Multiplier
2700K	1.00
3000K	0.92
3500K	0.88
4000K	0.86
5000K	0.85
5700K	0.87
6500K	0.90

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

Ordering Guide



Bidirectional 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.

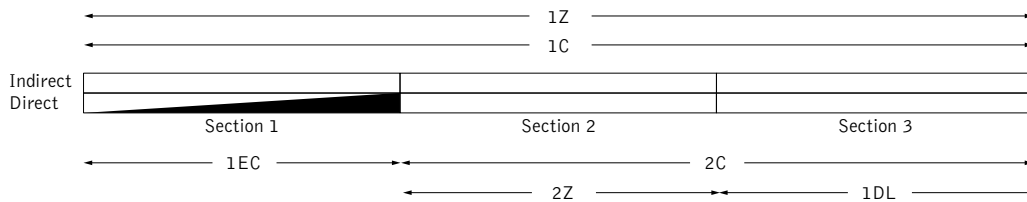
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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

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



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	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



FOCAL POINT®

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	SEPARATE ELECTRICAL FEEDS			EM
DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD							
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							
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	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.