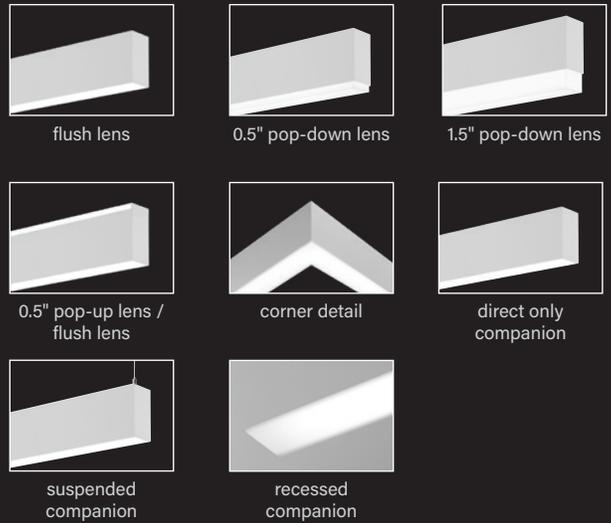
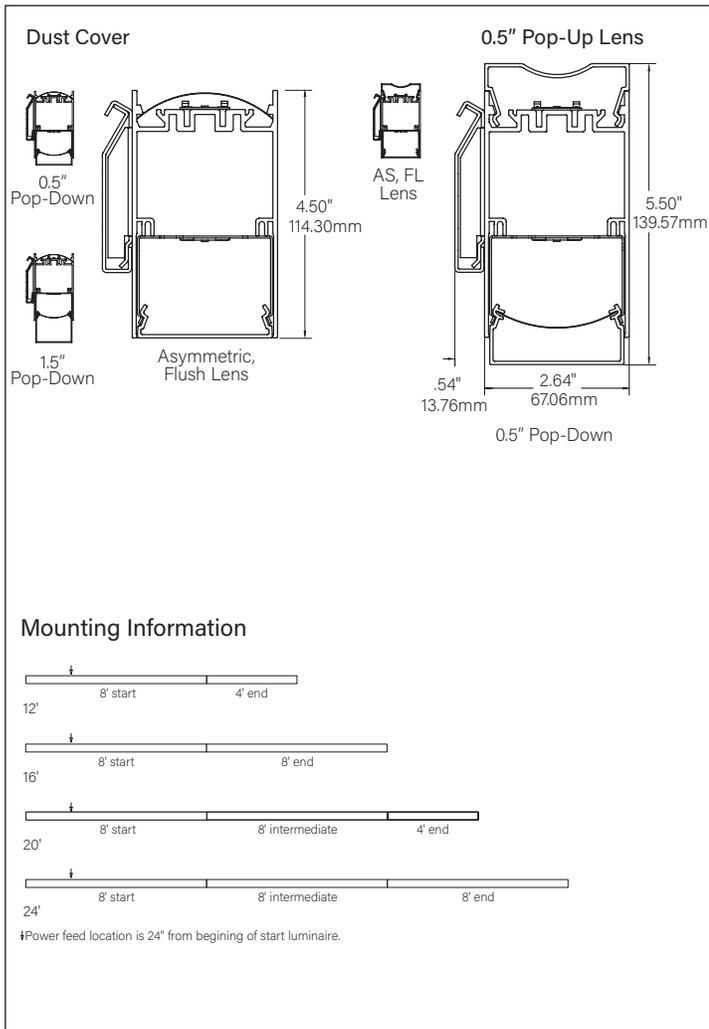


Seem[®] 2

LED DIRECT/INDIRECT WALL MOUNT



DIMENSIONAL DATA



FEATURES

Narrow extruded aluminum 2.5" linear direct/indirect LED with indirect Asymmetric Optic, Dust Cover, and Pop-lens options.

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.

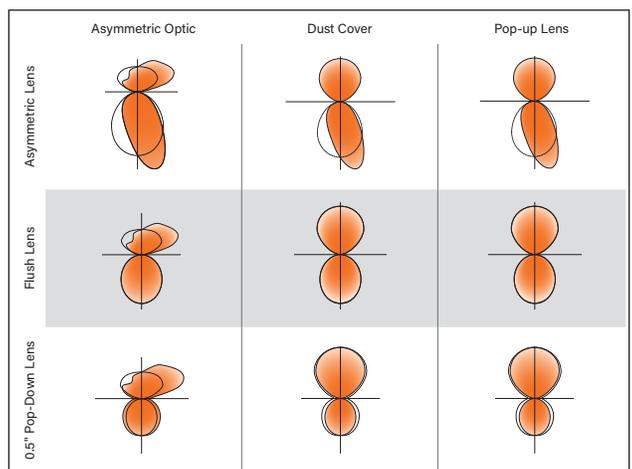
Choice of output levels and light distributions to meet a wide variety of application needs.

Individual units and continuous runs in 1' increments.

Preferred Light: Lighting for better color rendition and human preference.

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

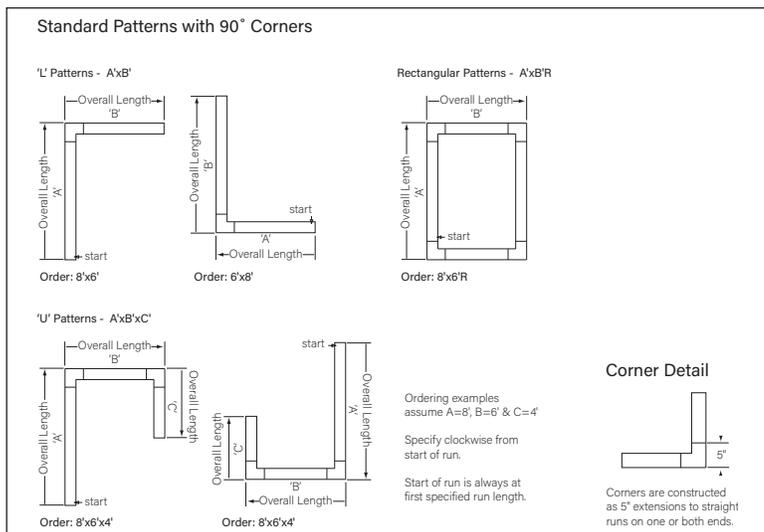
DISTRIBUTIONS



fixture:

project:

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 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>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. Color accuracy <3 SDCM.

Construction

One piece extruded aluminum housing. Cast aluminum end caps. 8' unit weight: 30 lbs.

Optic

Reflectors fabricated of 20 Ga. steel finished in Matte White powder coat. Extruded acrylic lens with frosted 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. 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 output - 10 watts for 90 minutes. Maximum mounting height: 20 ft.

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 at >61,000 hours Calculated: L70 at 257,000 hours
 L90 at >61,000 hours L90 at 69,000 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

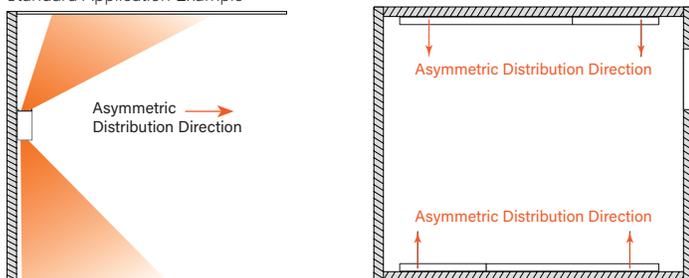
LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

See page 3.

ASYMMETRIC OPTIC / ASYMMETRIC LENS

Standard Application Example



ORDERING

	Luminaire Series	<u>FSM2BW</u>
	Seem 2 LED Direct/Indirect	FSM2BW
	Shielding	
Asymmetric Optic top	Asymmetric Lens bottom	ASAS
	Flush Lens bottom	ASFL
	0.5" Pop-down Lens bottom	ASPD05
Asymmetric Optic top	1.5" Pop-down Lens bottom	ASPD15
	(Individual Units Only)	
Dust Cover top	Asymmetric Lens bottom	DCAS
	Flush Lens bottom	DCFL
	0.5" Pop-down Lens bottom	DCPD05
Dust Cover top	1.5" Pop-down Lens bottom	DCPD15
	(Individual Units Only)	
0.5" Pop-up Lens top	Asymmetric Lens bottom	PUAS
	Flush Lens bottom	PUFL
	0.5" Pop-down Lens bottom	PUPD05
	Direct Distribution	
	125 Lumens per foot (LD1 & L11 only)	125DN
	250 Lumens per foot	250DN
	375 Lumens per foot	375DN
	500 Lumens per foot	500DN
	625 Lumens per foot	625DN
	750 Lumens per foot	750DN
	875 Lumens per foot	875DN
	1000 Lumens per foot	1000DN
	Indirect Distribution	
	250 Lumens per foot	250UP
	375 Lumens per foot	375UP
	500 Lumens per foot	500UP
	625 Lumens per foot	625UP
	750 Lumens per foot	750UP
	875 Lumens per foot	875UP
	1000 Lumens per foot	1000UP
	1250 Lumens per foot (Not available with Pop-up Lens.)	1250UP
	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
	3500K, Preferred Light (Not available with EM)	P35K
	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 X for multiple circuiting and zoning options	_C_Z_DL
	Voltage	
	120/277 UNV Volt	UNV
	347V (LD1 & L11 only)	347
	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 (750, 875, 1000 DN or UP, 1250UP consult factory.)	D11
	Mounting	<u>WM</u>
	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 ¹	_EM
	Emergency Control Device ¹ (4' minimum. 120/277 Volt only)	_ECD
	Finish	
	Black	BK
	Titanium Silver	TS
	Matte White Housing	WH
	Luminaire Length	
	Specify luminaire/row length in 1' increments (4' minimum. Leave blank for patterns. Smaller increments available, consult factory.)	X'
	Pattern Options (4' minimum length)	
	'L' pattern	A' x B'
	'U' pattern	A' x B' x C'
	Rectangular pattern (Consult factory for other pattern options)	A' x B' R



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

4' PERFORMANCE CHART

Direct Distribution	Indirect Distribution	Distribution % (Direct/Indirect)	Total Delivered Lumens	Tested System Watts	Lumens Per Watt (LPW)										
					ASAS	ASFL	ASPD05	ASPD15	DCAS	DCFL	DCPD05	DCPD15	PUAS	PUFL	PUPD05
125DN	250UP	33/67	1500	14	106	103	100	101	112	109	106	106	103	100	97
	375UP	25/75	2000	18	112	110	108	108	116	114	111	112	109	106	104
	500UP	20/80	2500	21	117	115	113	113	121	119	117	117	112	110	108
	625UP	17/83	3000	25	119	117	115	116	123	121	120	120	111	109	108
	750UP	14/86	3500	29	117	116	114	115	122	120	119	119	112	110	109
	875UP	13/87	4000	33	118	117	115	116	123	121	120	120	112	111	110
	1000UP	11/89	4500	38	119	118	117	117	124	122	121	121	113	112	111
	1250UP	9/91	5500	47	120	119	118	118	125	124	123	123	—	—	—
250DN	250UP	50/50	2000	18	113	108	104	105	118	112	108	110	110	105	101
	375UP	40/60	2500	22	117	113	109	111	120	116	112	113	114	110	106
	500UP	33/67	3000	25	120	116	113	114	124	120	116	118	116	112	109
	625UP	29/71	3500	29	122	118	115	117	125	122	119	120	115	111	109
	750UP	25/75	4000	33	120	117	114	115	124	121	118	119	115	112	110
	875UP	22/78	4500	37	120	118	115	116	124	122	120	120	115	112	110
	1000UP	20/80	5000	42	121	118	116	117	125	123	121	121	115	113	111
	1250UP	17/83	6000	51	121	119	117	118	126	124	122	123	—	—	—
375DN	250UP	60/40	2500	22	118	108	106	105	122	112	109	109	115	106	103
	375UP	50/50	3000	26	121	112	110	110	123	115	112	112	118	110	107
	500UP	43/57	3500	29	123	115	113	113	126	118	116	116	119	112	110
	625UP	38/62	4000	33	124	117	115	115	127	120	119	118	117	111	110
	750UP	33/67	4500	37	122	116	115	114	126	120	118	118	117	112	110
	875UP	30/70	5000	41	122	117	115	115	126	121	119	119	117	112	111
	1000UP	27/73	5500	46	122	118	116	116	126	122	120	120	117	113	112
	1250UP	23/77	6500	55	122	118	117	117	127	123	122	122	—	—	—
500DN	250UP	67/33	3000	27	120	109	106	106	123	112	109	109	118	107	104
	375UP	57/43	3500	30	122	113	110	110	124	115	112	112	120	110	108
	500UP	50/50	4000	34	124	115	113	113	127	118	115	115	121	112	110
	625UP	44/56	4500	37	125	117	115	114	128	120	117	117	119	112	110
	750UP	40/60	5000	42	123	116	114	114	126	119	117	117	118	112	110
	875UP	36/64	5500	46	123	117	115	115	126	120	118	118	118	112	111
	1000UP	33/67	6000	50	123	117	116	116	127	121	119	119	118	113	111
	1250UP	29/71	7000	59	123	118	117	117	127	122	121	121	—	—	—
625DN	250UP	71/29	3500	32	119	108	104	104	122	110	107	107	117	106	103
	375UP	63/37	4000	36	121	111	108	107	123	112	109	109	119	109	106
	500UP	56/44	4500	39	123	113	110	110	125	115	113	112	120	111	108
	625UP	50/50	5000	42	123	115	112	112	126	117	115	114	118	110	108
	750UP	45/55	5500	47	122	114	112	112	125	117	115	114	118	111	109
	875UP	42/58	6000	51	122	115	113	113	125	118	116	116	118	111	109
	1000UP	38/62	6500	55	122	116	114	114	125	119	117	117	118	112	110
	1250UP	33/67	7500	64	122	117	115	115	126	120	119	118	—	—	—
750DN	250UP	75/25	4000	37	121	109	104	103	123	111	106	105	119	108	102
	375UP	67/33	4500	40	122	112	107	106	124	113	108	108	120	110	105
	500UP	60/40	5000	43	123	114	109	109	125	116	111	111	121	111	107
	625UP	55/45	5500	47	124	115	111	110	126	117	113	113	119	111	107
	750UP	50/50	6000	52	123	115	111	110	125	117	113	113	119	111	108
	875UP	46/54	6500	56	123	115	112	111	125	118	114	114	119	112	108
	1000UP	43/57	7000	60	123	116	112	112	126	119	115	115	119	112	109
	1250UP	38/62	8000	69	123	117	114	114	126	120	117	117	—	—	—
875DN	250UP	78/22	4500	42	119	106	103	102	121	108	105	104	117	105	102
	375UP	70/30	5000	46	120	109	106	105	121	110	107	106	118	107	104
	500UP	64/36	5500	49	121	111	108	107	123	112	110	109	119	109	106
	625UP	58/42	6000	53	122	112	109	109	124	114	111	111	118	109	106
	750UP	54/46	6500	57	121	112	109	109	123	114	112	111	118	109	107
	875UP	50/50	7000	61	121	113	110	110	124	115	113	113	118	109	107
	1000UP	47/53	7500	66	121	113	111	111	124	116	114	114	118	110	108
	1250UP	41/59	8500	75	122	115	113	112	125	118	116	116	—	—	—
1000DN	250UP	80/20	5000	48	118	107	103	103	120	109	105	104	117	106	102
	375UP	73/27	5500	51	120	109	106	105	121	110	107	106	118	108	104
	500UP	67/33	6000	54	121	111	108	107	122	112	109	109	119	109	106
	625UP	62/38	6500	58	122	112	109	109	123	114	111	111	118	109	106
	750UP	57/43	7000	63	121	112	109	109	123	114	111	111	118	109	107
	875UP	53/47	7500	67	121	113	110	110	123	115	112	112	118	110	107
	1000UP	50/50	8000	71	121	113	111	111	124	116	113	113	118	110	108
	1250UP	44/56	9000	80	121	114	112	112	124	117	115	115	—	—	—

*Based on 3500K, 4' lengths. Lumen Multipliers: Preferred Light = 0.65, 90 CRI = 0.87, Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%.

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.

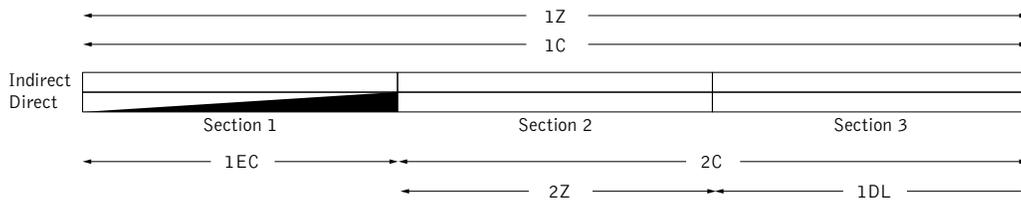
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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>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.