

Seem[®] 1

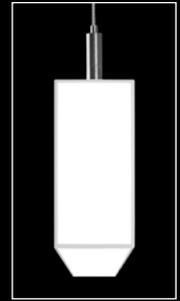
LED DIRECT/INDIRECT



pop-down lens



corner detail

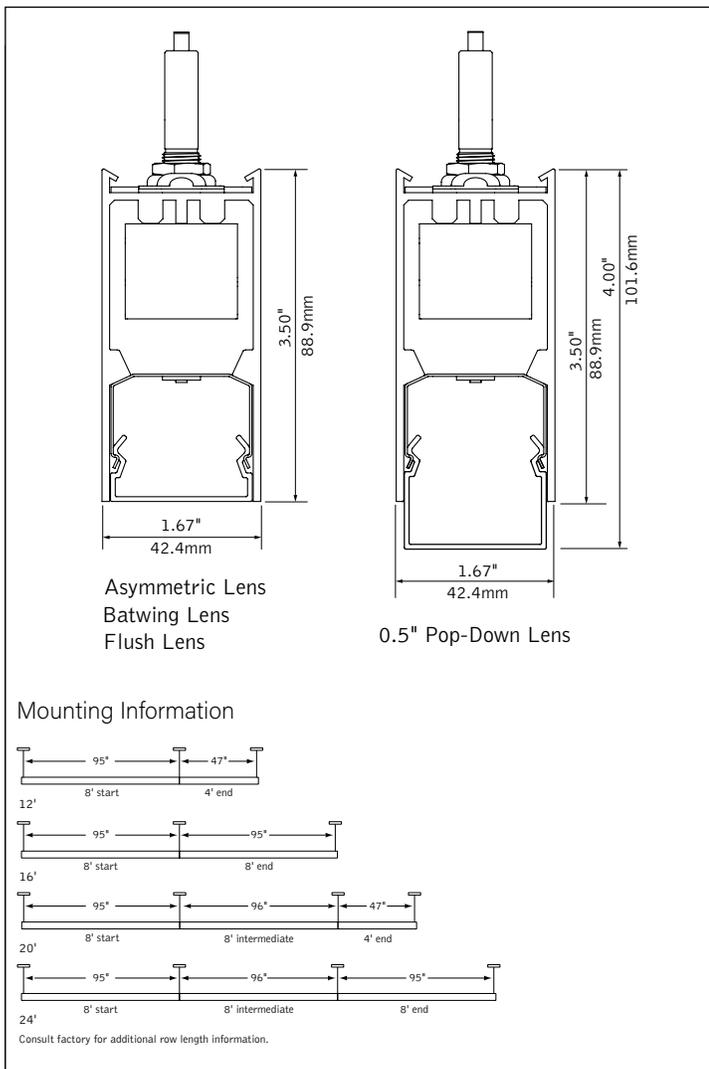


lit end cap detail



The Naturals collection - Walnut shown

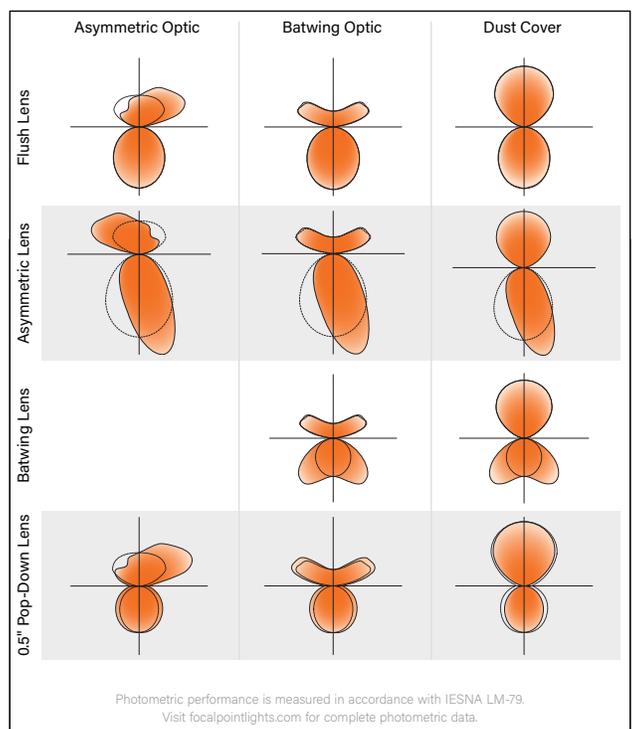
DIMENSIONAL DATA



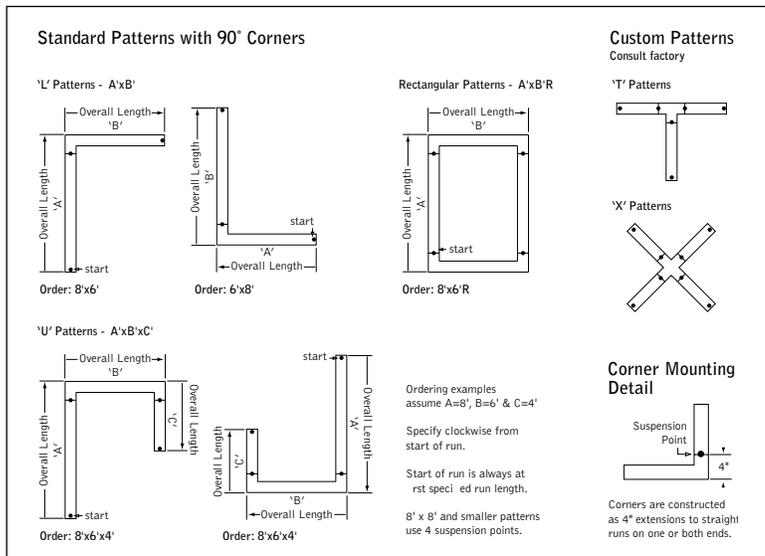
FEATURES

- Narrow extruded aluminum 1.5" linear direct/indirect LED with multiple shielding options.
- Individual units and continuous runs in 1" increments.
- LED position and frosted acrylic lenses optimized to provide the perfect blend of high performance and visual comfort.
- 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.

DISTRIBUTIONS



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 both 80 and 90 CRI options. 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: 15lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with frosted finish, up to 8' continuous. 15-30" recommended distance from wall for Asymmetric Lens (AS).

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 Battery

Emergency output - 10 watts for 90 minutes.

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.

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. 5-year limited warranty.

PERFORMANCE CHARTS

See pages 3 & 4.



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

ORDERING

Luminaire Series

Seem 1 LED Direct/Indirect **FSM1BS**

FSM1BS

Shielding

- Asymmetric Optic top/Asymmetric Lens bottom ASAS
- Asymmetric Optic top/Flush Lens bottom ASFL
- Asymmetric Optic top/0.5" Pop-Down Lens bottom ASPD05
- Batwing Optic top/Asymmetric Lens bottom BWAS
- Batwing Optic top/Flush Lens bottom BWFL
- Batwing Optic top/Batwing Lens bottom BWBW
- Batwing Optic top/0.5" Pop-Down Lens bottom BWPD05
- Dust Cover top/Asymmetric Lens bottom DCAS
- Dust Cover top/Flush Lens bottom DCFL
- Dust Cover top/Batwing Lens bottom DCBW
- Dust Cover top/0.5" Pop-Down lens bottom DCPD05

Direct Distribution

- 125 Lumens per foot 125DN
- (Consult factory for Lutron and DALI)
- 250 Lumens per foot 250DN
- 375 Lumens per foot 375DN
- 500 Lumens per foot 500DN
- 625 Lumens per foot 625DN

Indirect Distribution

- 125 Lumens per foot 125UP
- (Consult factory for Lutron and DALI)
- 250 Lumens per foot 250UP
- 375 Lumens per foot 375UP
- 500 Lumens per foot 500UP
- 625 Lumens per foot 625UP
- 800 Lumens per foot* 800UP
- 1000 Lumens per foot* 1000UP

*Not available with DALI

Color Temperature

- 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
- 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
- 347 Volt 347
- (LD1 driver only)
- 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

- 24" Cable Suspension C24
- 48" Cable Suspension C48
- 96" Cable Suspension C96

(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: C24WH) (Specify one of the following in place of "C" J - for 2" canopies at non-feed locations. CS - for sloped ceiling applications.)

Factory Options

(See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.)

- Black Cord BKCD
- Lit End Caps LE
- (Pair, adds 2" to overall luminaire length. ASFL, BWFL & DCFL shielding only. Not available with P35K.)
- Daylight Circuit _DC
- Emergency Circuit _EC
- Emergency Battery Pack† _EM
- Emergency Control Device† _ECD
- †(5' minimum length. 120/277 Volt only.)

Finish

(See finishes page for The Naturals options)

- Black BK
- Titanium Silver TS
- Matte White Housing WH

Luminaire Length

Specify luminaire/row length in 1" increments **_ft_in**

(4' minimum. Leave blank for patterns. Smaller increments available, consult factory.)

Pattern Options

(4' minimum length)

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

(Consult factory for other pattern options)

4' PERFORMANCE CHART

Direct Distribution		Lumens Per Watt (LPW)																							
		Indirect Distribution	Distribution % (Direct/Indirect)	Total Delivered Lumens	Tested System Watts	 ASAS	Tested System Watts	 ASFL	Tested System Watts	 ASPD05	Tested System Watts	 BWAS	Tested System Watts	 BWBW	Tested System Watts	 BWFL	Tested System Watts	 BWP05	Tested System Watts	 DCAS	Tested System Watts	 DCBW	Tested System Watts	 DCFL	Tested System Watts
125DN	125UP	50/50	1000	11	91	11	91	11	91	11	91	11	91	11	91	11	91	11	91	11	91	11	91	11	91
	250UP	33/67	1500	13	112	13	112	13	112	13	113	13	113	13	113	13	113	13	113	13	113	13	114	13	113
	375UP	25/75	2000	16	124	16	125	16	124	16	125	16	125	16	125	16	125	16	126	16	126	16	126	16	126
	500UP	20/80	2500	19	130	19	130	19	130	19	131	19	131	19	132	19	131	19	132	19	132	19	133	19	132
	625UP	17/83	3000	22	134	22	134	22	134	22	135	22	135	22	135	22	135	22	136	22	136	22	137	22	136
	800UP	14/86	3700	27	137	27	137	27	137	27	138	27	138	27	138	27	138	26	140	26	140	26	140	26	140
	1000UP	11/89	4500	34	134	34	134	34	134	33	135	33	135	33	136	33	135	33	137	33	137	33	137	33	137
250DN	125UP	67/33	1500	14	111	14	105	14	107	36	42	14	108	14	105	14	107	14	111	14	108	14	105	14	107
	250UP	50/50	2000	16	126	17	120	16	122	14	148	16	124	17	121	16	123	16	127	16	125	16	122	16	123
	375UP	40/60	2500	19	134	19	129	19	131	16	159	19	133	19	130	19	132	18	136	19	134	19	131	19	132
	500UP	33/67	3000	22	138	22	134	22	135	18	163	22	137	22	135	22	136	21	140	22	138	22	136	22	137
	625UP	29/71	3500	25	140	26	136	25	138	21	164	25	140	25	138	25	139	25	143	25	141	25	139	25	140
	800UP	24/76	4200	30	142	30	139	30	140	25	171	30	142	30	140	30	141	29	145	29	143	30	141	29	143
	1000UP	20/80	5000	36	138	37	136	37	137	29	173	36	139	36	137	36	138	35	141	36	140	36	139	36	140
375DN	125UP	75/25	2000	16	123	17	115	17	117	38	53	17	120	17	115	17	117	16	123	17	120	17	115	17	117
	250UP	60/40	2500	19	134	20	127	19	129	39	65	19	132	20	127	19	129	18	135	19	132	20	128	19	130
	375UP	50/50	3000	21	140	22	134	22	136	11	278	22	138	22	135	22	136	21	142	22	139	22	135	22	137
	500UP	43/57	3500	24	143	26	137	25	139	16	215	25	142	25	138	25	140	24	145	25	143	25	139	25	141
	625UP	38/62	4000	28	144	29	139	28	141	20	205	28	143	29	140	28	142	27	147	28	145	28	141	28	143
	800UP	32/68	4700	32	145	33	141	33	142	23	208	32	145	33	142	33	143	32	148	32	146	33	143	32	145
	1000UP	25/75	5500	39	141	40	138	40	139	26	210	39	141	40	139	39	140	38	144	39	143	39	141	39	142
500DN	125UP	80/20	2500	19	128	21	120	20	122	33	76	20	125	21	120	20	122	19	128	20	125	21	120	20	122
	250UP	67/33	3000	22	137	23	129	23	131	37	82	22	134	23	129	23	132	22	138	22	135	23	130	23	132
	375UP	57/43	3500	25	143	26	135	26	137	14	251	25	140	26	135	25	138	24	144	25	141	26	136	25	138
	500UP	50/50	4000	28	145	29	138	29	139	19	205	28	142	29	138	29	140	27	146	28	143	29	139	28	141
	625UP	44/56	4500	31	146	32	139	32	141	22	202	31	144	32	140	32	142	30	148	31	145	32	141	31	143
	800UP	38/62	5200	35	147	37	141	36	143	25	207	36	145	37	142	36	144	35	149	36	146	36	143	36	145
	1000UP	33/67	6000	42	143	43	138	43	139	29	210	42	142	43	139	43	141	41	145	42	143	43	141	42	142
625DN	125UP	83/17	3000	23	132	25	122	24	125	35	85	24	128	25	122	24	125	23	132	24	128	25	122	24	125
	250UP	71/29	3500	25	139	27	130	26	132	40	88	26	136	27	130	26	133	25	140	26	136	27	131	26	133
	375UP	60/40	4000	28	144	30	135	29	137	17	232	28	140	30	135	29	138	28	145	28	141	29	136	29	138
	500UP	56/44	4500	31	145	33	137	32	140	23	198	32	143	33	138	32	140	31	147	31	143	32	139	32	141
	625UP	50/50	5000	34	146	36	139	35	141	25	198	35	144	36	140	35	142	34	148	34	145	36	141	35	143
	800UP	44/56	5700	39	147	41	140	40	142	28	203	39	145	40	141	40	143	38	149	39	146	40	143	39	144
	1000UP	35/65	6500	45	143	47	138	47	139	31	208	46	142	47	139	46	141	45	146	45	143	46	140	46	142

*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%.

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.

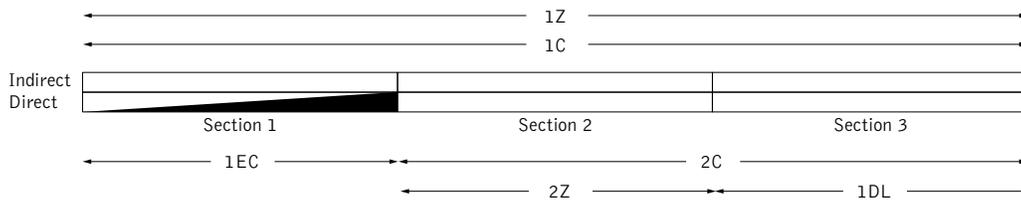
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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.