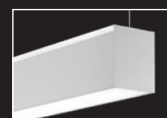


flush lens
top & bottom



0.5" pop-up lens /
flush lens bottom



Batwing / 0.5"
pop-down lens



Batwing / 1.5"
pop-down lens



single point corner
suspension



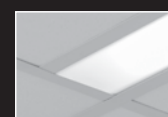
wall mount
companion



linear direct only
companion



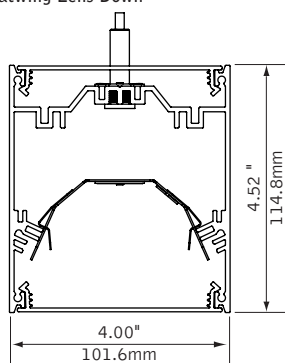
wall to ceiling
corner companion



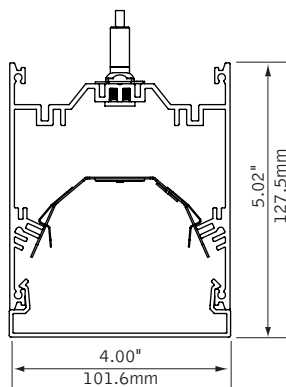
recessed
companion

DIMENSIONAL DATA

Flush Lens Up / Flush &
Batwing Lens Down



Batwing Optic / 0.5" Pop-Down



Additional Shielding Options

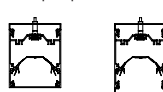
Batwing Optic



Flush &
Batwing Lens

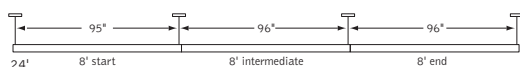
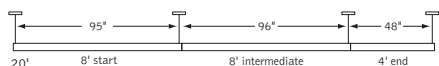
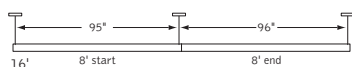
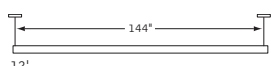
1.5"
Pop-Down

0.5" Pop-Up Lens



Flush &
Batwing Lens

0.5"
Pop-Down



Consult factory for additional row length information.

FEATURES

Narrow extruded aluminum 4" linear direct/indirect LED with indirect batwing optic and Pop-lens options.

Features Right Light lumen levels allowing lumen and wattage design flexibility.

Individual units and continuous runs in 1' increments.

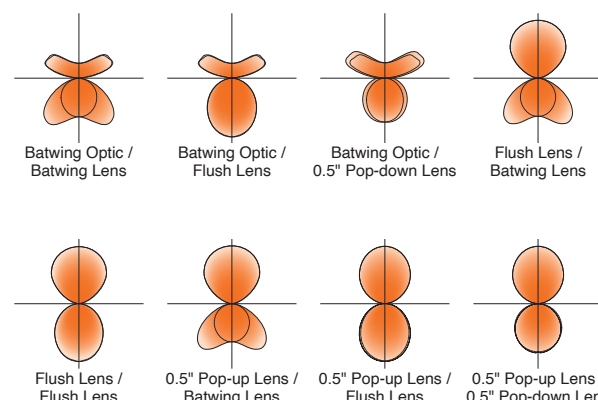
Frosted acrylic lenses provide uninterrupted illumination, without pixels or shadows.

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.

DISTRIBUTIONS

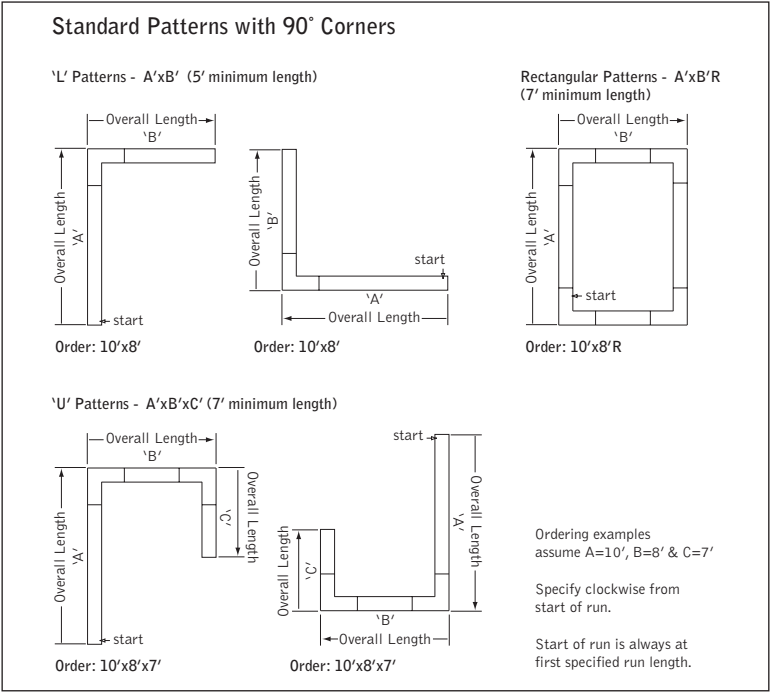


Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

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 >80 or 90 CRI, 3 SDCM. 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. 3' unit weight: 14.75lbs., 4' unit weight: 19lbs., 5' unit weight: 25lbs., 12' unit weight: 47lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 12' 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: Flush Lens - 20.18ft. Maximum mounting height: Pop-Down Lens - 15.54ft

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 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.

4' PERFORMANCE CHART

See page 3

ORDERING

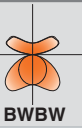
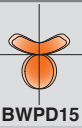
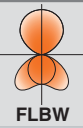
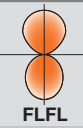
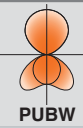
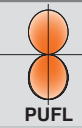
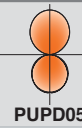
Luminaire Series	FSM4BS
Seem 4 Direct/Indirect LED	FSM4BS
Shielding	
Batwing Optic Top / Batwing Lens Bottom	BWBW
Batwing Optic Top / Flush Lens Bottom	BWFL
Batwing Optic Top / 0.5" Pop-Down Bottom	BWPD05
Batwing Optic Top / 1.5" Pop-Down Bottom (3' - 12' individual lengths only)	BWPD15
Flush Lens Top / Batwing Lens Bottom	FLBW
Flush Lens Top / Flush Lens Bottom	FLFL
0.5" Pop-Up Lens Top / Batwing Lens Bottom	PUBW
0.5" Pop-Up Lens Top / Flush Lens Bottom	PUFL
0.5" Pop-Up Lens Top / 0.5" Pop-Down Lens Bottom	PUPD05
Direct Distribution (875 Lumens per foot maximum for xxPD05 & xxPD15. See driver compatibility chart on page 3.)	
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
Indirect Distribution (1000 Lumens per foot maximum for PUX. See driver compatibility chart on page 3.)	
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
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
Circuit	
Single Circuit	1C
Dual Circuit	2C
(Multiple feeds required for 0-10V drivers)	
Voltage	
UNV Volt	UNV
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
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming	LU5
DALI - 1% Dimming (1000 lumens per foot max.)	D11
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	
Black Cord	BKCD
Emergency Circuit	EC
Emergency Battery Pack (8' lengths or longer. 4' illuminated area.)	EM
Finish	
Black	BK
Titanium Silver	TS
Matte White Housing	WH
Luminaire/Row Length (3' minimum length. Leave blank for patterns. Lengths are nominal)	
Specify in 1' increments (Lengths are nominal, up to 12' individuals available. See Run Chart (page 4) for ordering codes. Smaller increments available, consult factory for details. Leave blank for patterns.)	X'
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) (Consult factory for other pattern options)	A' x B'R



DRIVER COMPATIBILITY CHART

Driver Description	Driver Code	Lumens per foot						
		275	375	625	875	1000	1125	1250
0-10V - 10% Dimming	LD1	✓	✓	✓	✓	✓	✓	✓
0-10V - 1% Dimming	L11	✓	✓	✓	✓	✓	✓	✓
DALI - 1% Dimming	D11	✓	✓	✓	✓	✓		
Lutron Hi-Lume - 1% EcoSystem	LH1	✓	✓	✓	✓	✓	✓	✓
Lutron 5-Series - 5% EcoSystem Digital	LU5	✓	✓	✓	✓	✓	✓	✓

4' PERFORMANCE CHART

Direct Distribution	Indirect Distribution	Distribution % (Direct/Indirect)	Total Delivered Lumens	Tested System Watts	Lumens Per Watt (LPW)								
													
275DN	275	50/50	2200	21	116	118	103	106	105	107	103	105	93
	375	42/58	2600	24	118	119	106	109	108	109	105	106	95
	625	31/69	3600	32	124	124	113	116	110	111	105	106	98
	875	24/76	4600	43	124	125	116	118	108	109	102	103	97
	1000	22/78	5100	47	124	124	116	118	107	108	101	102	97
	1125	20/80	5600	52	122	123	115	117	108	109	—	—	—
375DN	1250	18/82	6100	57	122	123	116	118	107	108	—	—	—
	275	58/42	2600	24	119	119	99	93	109	109	107	107	91
	375	50/50	3000	27	120	120	102	96	111	111	108	108	94
	625	38/62	4000	35	125	125	109	105	112	112	108	108	96
	875	30/70	5000	46	125	125	112	109	110	110	104	105	96
	1000	27/73	5500	50	125	125	113	110	109	109	103	104	96
625DN	1125	25/75	6000	55	123	123	112	110	110	110	—	—	—
	1250	23/77	6500	59	123	123	113	111	109	109	—	—	—
	275	69/31	3600	32	116	118	95	99	109	111	108	109	89
	375	63/37	4000	35	117	119	97	102	110	112	108	110	91
	625	50/50	5000	44	121	123	104	107	111	113	108	109	94
	875	42/58	6000	54	122	123	107	110	110	111	105	106	94
875DN	1000	38/62	6500	58	122	123	108	111	109	110	104	105	94
	1125	36/64	7000	63	121	122	108	110	109	110	—	—	—
	1250	33/67	7500	68	121	122	109	111	109	110	—	—	—
	275	76/24	4600	43	114	114	90	94	109	109	108	108	86
	375	70/30	5000	46	115	115	92	96	110	110	108	109	87
	625	58/42	6000	54	119	119	97	101	111	111	108	108	90
1000DN	875	50/50	7000	65	120	120	101	104	110	110	105	106	91
	1000	47/53	7500	69	120	120	102	105	109	109	105	105	91
	1125	44/56	8000	74	119	119	102	105	109	109	—	—	—
	1250	41/59	8500	78	119	119	103	106	109	109	—	—	—
	275	78/22	5100	47	113	113	—	—	108	108	107	107	—
	375	73/27	5500	50	114	114	—	—	109	109	108	108	—
1125DN	625	62/38	6500	58	117	117	—	—	110	110	107	108	—
	875	53/47	7500	69	119	119	—	—	109	109	105	105	—
	1000	50/50	8000	73	119	119	—	—	109	109	105	105	—
	1125	47/53	8500	78	118	118	—	—	109	109	—	—	—
	1250	44/56	9000	82	118	118	—	—	108	108	—	—	—
	275	80/20	5600	52	112	113	—	—	108	109	107	108	—
1250DN	375	75/25	6000	55	113	114	—	—	109	110	107	108	—
	625	64/36	7000	63	116	117	—	—	110	110	107	108	—
	875	56/44	8000	74	118	118	—	—	109	109	105	106	—
	1000	53/47	8500	78	118	118	—	—	108	109	105	105	—
	1125	50/50	9000	83	117	117	—	—	109	109	—	—	—
	1250	47/53	9500	88	117	118	—	—	108	109	—	—	—
	275	82/18	6100	55	111	112	—	—	107	112	106	107	—
	375	77/23	6500	58	112	113	—	—	108	113	106	108	—
	625	67/33	7500	65	115	116	—	—	114	116	106	107	—
	875	59/41	8500	73	116	117	—	—	125	117	105	106	—
	1000	56/44	9000	77	116	117	—	—	113	117	104	105	—
	1125	53/47	9500	81	116	117	—	—	115	117	—	—	—
	1250	50/50	10000	85	116	117	—	—	113	117	—	—	—

*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%

RUN CHART

Run Length (ft)	Housing Configuration Section Lengths	Ordering Code
9	5 + 4	9
	9	9(IND)
10	6 + 4	10
	5 + 5	10(5+5)
	10	10(IND)
11	7 + 4	11
	11	11(IND)
12	8 + 4	12
	6 + 6	12(6+6)
	12	12(IND)
13	8 + 5	13
14	8 + 6	14
15	8 + 7	15
16	8 + 8	16
17	8 + 5 + 4	17
18	8 + 6 + 4	18
19	8 + 7 + 4	19
20	8 + 8 + 4	20
21	8 + 8 + 5	21
22	8 + 8 + 6	22
23	8 + 8 + 7	23
24	8 + 8 + 8	24
25	8 + 8 + 5 + 4	25

Run Length (ft)	Housing Configuration Section Lengths	Ordering Code
26	8 + 8 + 6 + 4	26
27	8 + 8 + 7 + 4	27
28	8 + 8 + 8 + 4	28
29	8 + 8 + 8 + 5	29
30	8 + 8 + 8 + 6	30
31	8 + 8 + 8 + 7	31
32	8 + 8 + 8 + 8	32
33	8 + 8 + 8 + 5 + 4	33
34	8 + 8 + 8 + 6 + 4	34
35	8 + 8 + 8 + 7 + 4	35
36	8 + 8 + 8 + 8 + 4	36
37	8 + 8 + 8 + 8 + 5	37
38	8 + 8 + 8 + 8 + 6	38
39	8 + 8 + 8 + 8 + 7	39
40	8 + 8 + 8 + 8 + 8	40
41	8 + 8 + 8 + 8 + 5 + 4	41
42	8 + 8 + 8 + 8 + 6 + 4	42
43	8 + 8 + 8 + 8 + 7 + 4	43
44	8 + 8 + 8 + 8 + 8 + 4	44
45	8 + 8 + 8 + 8 + 8 + 5	45
46	8 + 8 + 8 + 8 + 8 + 6	46
47	8 + 8 + 8 + 8 + 8 + 7	47
48	8 + 8 + 8 + 8 + 8 + 8	48

Standard and Alternate run configurations, consult factory for custom configurations.

EM/EC GUIDE

DEFAULT LOCATIONS

- By default, EM/EC are located at the end (last section) of a run when one EM/EC location is specified, and at the start and end when two locations are specified.
- EM/EC illuminate entire sections from 4' to 12' in length.
- Feed location is at start of run. All EC's are fed individually at the end of each fixture segment.

1 EM/EC – END OF RUN

Section 1	Section 2	Section 3	Section 4	Section 5
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Ordering example: FSM4x... **1EM-WH-36ft**

2 EM/EC – START & END OF RUN

Section 1	Section 2	Section 3	Section 4	Section 5
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Ordering example: FSM4x... **2EM-WH-36ft**

ALTERNATE LOCATIONS AND QUANTITIES

- If more than two locations are required, or specific locations within run need to be specified, indicate in the ordering string.

ONE EM IN 3RD SECTION

Section 1	Section 2	Section 3	Section 4	Section 5
-----------	-----------	-----------	-----------	-----------

Ordering example: FSM4x... **1EM-3-WH-40ft**

THREE EM IN 1ST, 3RD AND 6TH SECTIONS

Section 1	Section 2	Section 3	Section 4	Section 5	Section 6
-----------	-----------	-----------	-----------	-----------	-----------

Ordering example: FSM4x... **3EM-1-3-6-WH-48ft**

CUSTOM LENGTHS

- If partial illumination of emergency section is required, indicate quantity in ordering string and partial illumination in Order Notes. Drawing required.
- Longer lead times may apply.