Seem® 1 Point Source

LED DIRECT/INDIRECT

Intermediate point source detail

Black finish

Surface Mount companion

6" spacing

12" spacing

Start and end of run

Direct suspended companions

Recessed companions

DIMENSIONAL DATA

3.50"
88.9mm

1.14"
28.97mm

1.14"
28.97mm

1.67"
42.42mm

3.06"
77.7mm

Mounting Information

95"
47"
8' start
4' end
12'

95"
95"
8' start
8' end
16'

95"
96"
47"
8' start
8' intermediate
4' end
20'

95"
96"
95"
8' start
8' intermediate
8' end
24'

Consult factory for additional row length information.

FEATURES

Narrow extruded aluminum nominal 1.5" linear direct/indirect illumination with integrated point source downlights.
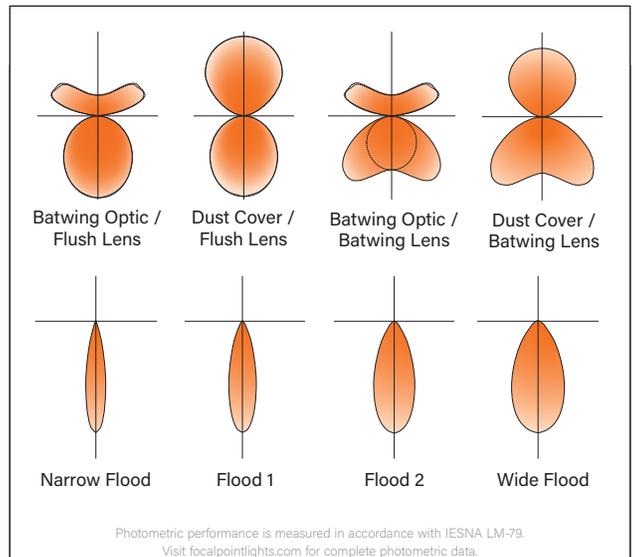
Individual units and continuous runs in 1' increments.

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.

DISTRIBUTIONS

Batwing Optic / Flush Lens

Dust Cover / Flush Lens

Batwing Optic / Batwing Lens

Dust Cover / Batwing Lens

Narrow Flood

Flood 1

Flood 2

Wide Flood

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

POINT SOURCE SPACING

PSE - Start and end of run
4'
4' - 0DN
8'
8' - 0DN
12'
12' - 0DN
15'
15' - 0DN
24'
24' - 0DN

PS4 - Nominal 4ft spacing across run
8'
12'
16'
24'

PS5 - Nominal 5ft spacing across run
10'
15'

PS6 - Nominal 6ft spacing across run
12'
18'
24'

PS8 - Nominal 8ft spacing across run
16'
24'

PS06 - 6" Nominal on-center spacing
4'
8'
12'

PS12 - 12" Nominal on-center spacing
4'
8'
12'

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 both 80 and 90 CRI options. 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 : 18.5lbs.

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.

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.

Emergency Battery
Emergency output - 10 watts for 90 minutes. See EM/EC Guide for default locations and ordering details.

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

Linear Source
Reported: L70 at >61,000 hours   Calculated: L70 at 470,000 hours
           L90 at >61,000 hours   L90 at 115,000 hours

Point Source
Reported: L70 at >55,000 hours   Calculated: L70 at 226,000 hours
           L90 at 54,000 hours   L90 at 54,000 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 page 3.

ORDERING

			FSM1DBS
Luminaire Series			
Seem 1 LED Point Source Direct/Indirect	FSM1DBS		
Shielding			_____
Dust Cover top/Flush lens bottom	DCFL		
Dust Cover top/Batwing lens bottom	DCBW		
Dust Cover top/Point Source only bottom	DCPS		
Batwing Optic top/Flush lens bottom	BWFL		
Batwing Optic top/Batwing lens bottom	BWBW		
Batwing Optic top/Point Source only bottom	BWPS		
Point Source Spacing			_____
All — Start and End of Run	PSE		
Nominal 4ft Spacing (Consult factory for Lutron)	PS4		
DCFL, DCBW, BWFL & BWBW options only — Nominal 5ft Spacing	PS5		
Nominal 6ft Spacing	PS6		
Nominal 7ft Spacing	PS7		
Nominal 8ft Spacing	PS8		
Mixed Spacing (See point source spacing guide for more options.)	PSM		
DCPS & BWPS options only — 6" Nominal On-Center Spacing (250L & 350L only.)	PS06		
12" Nominal On-Center Spacing (Wider spacing available, consult factory.)	PS12		
Point Source Lumens			_____
250 Lumens (xxPS shielding only.)	250L		
350 Lumens (Consult factory for Lutron with FL or BW shielding & PSE-0DN.)	350L		
450 Lumens	450L		
Point Source Distribution			_____
Narrow Flood	NFL		
Flood 1	FL1		
Flood 2	FL2		
Wide Flood	WFL		
Linear Direct Distribution			_____
DCPS & BWPS options only — No linear direct, point source only	0DN		
DCFL, DCBW, BWFL & BWBW options only — 125 Lumens per foot (5' minimum length. See spacing guide for PS4 limitations. Consult factory for Lutron.)	125DN		
250 Lumens per foot	250DN		
375 Lumens per foot	375DN		
500 Lumens per foot	500DN		
625 Lumens per foot	625DN		
Linear Indirect Distribution			_____
125 Lumens per foot (Consult factory for Lutron)	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	800UP		
1000 Lumens per foot	1000UP		
Color Temperature			_____
2700K, 80CRI **or** 90 CRI	27K **or** 927K		
3000K, 80CRI **or** 90 CRI	30K **or** 930K		
3500K, 80CRI **or** 90 CRI	35K **or** 935K		
4000K, 80CRI **or** 90 CRI	40K **or** 940K		
Circuit			_____
Single Circuit	1C		
Dual Circuit (Circuit 1 = Indirect, Circuit 2 = All Direct sources.)	2C		
Triple Circuit (xxFL & xxBW shielding only)	3C		
Voltage			_____
120/277 UNV Volt	UNV		
347 Volt (LD1 driver only)	347		
Control System & Dimming Level			_____
0-10V - 10% Dimming	LD1		
0-10V - 1% Dimming	L11		
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming (5' min. length for xxBW & xxFL shielding)	LH1		
Mounting			_____
24" Cable Suspension	C24_		
48" Cable Suspension	C48_		
96" Cable Suspension	C96_		
(Specify canopy color White (WH), Black (BK) or Titanium Sliver (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 (direct linear only) (Direct linear only on xxBW & xxFL shielding. Not available for PSE-0DN.)	_EC		_____ _____
Emergency Battery Pack (6' min. length for xxBW & xxFL shielding. 5' min. length for xxPS shielding. See EM/EC Guide for default locations and ordering details.)	_EM		_____
Finish			_____
Black	BK		
Titanium Silver	TS		
Matte White Housing	WH		
Luminaire Length			_____
Specify luminaire/row length in 1' increments (4' minimum. Smaller increments available, consult factory.)	_ft		

PERFORMANCE CHART (4' LINEAR AREA)

Direct Distribution	Indirect Distribution	Distribution % (Direct/Indirect)	Total Lumen Output	Batwing Optic Flush Lens		Dust Cover Flush Lens		Batwing Optic Batwing Lens		Dust Cover Batwing Lens	
				Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
125DN	125UP	50/50	1000	12	81	12	84	12	84	12	87
	250UP	33/67	1500	16	96	15	98	16	99	15	101
	375UP	25/75	2000	19	104	19	107	19	106	19	109
	500UP	20/80	2500	23	111	22	114	23	112	22	116
	625UP	17/83	3000	27	114	26	118	27	116	26	119
	800UP	14/86	3700	33	114	32	118	33	115	32	119
	1000UP	11/89	4500	40	115	38	119	40	116	38	120
250DN	125UP	67/33	1500	16	94	16	97	16	94	16	97
	250UP	50/50	2000	20	104	19	106	20	104	19	106
	375UP	40/60	2500	23	109	23	112	23	109	23	112
	500UP	33/67	3000	26	115	26	117	26	114	26	117
	625UP	29/71	3500	30	117	30	120	30	117	30	120
	800UP	24/76	4200	37	116	36	120	37	116	36	120
	1000UP	20/80	5000	43	117	42	121	43	117	42	121
375DN	125UP	75/25	2000	20	99	20	101	20	98	20	100
	250UP	60/40	2500	24	106	24	108	24	106	24	107
	375UP	50/50	3000	28	110	27	112	28	110	27	112
	500UP	43/57	3500	31	115	30	117	31	114	30	117
	625UP	38/62	4000	35	117	34	120	35	117	34	120
	800UP	32/68	4700	41	116	40	120	41	116	40	119
	1000UP	25/75	5500	48	117	47	121	48	117	47	120
500DN	125UP	80/20	2500	25	101	24	103	25	101	24	103
	250UP	67/33	3000	28	107	28	109	28	107	28	109
	375UP	57/43	3500	32	111	31	112	32	111	31	113
	500UP	50/50	4000	35	115	35	117	35	115	35	117
	625UP	44/56	4500	39	117	38	119	39	117	38	119
	800UP	38/62	5200	46	116	45	119	46	116	45	119
	1000UP	33/67	6000	52	117	51	120	52	117	51	120
625DN	125UP	83/17	3000	30	100	30	101	30	100	30	101
	250UP	71/29	3500	34	105	33	106	34	105	33	106
	375UP	60/40	4000	37	108	37	110	37	108	37	110
	500UP	56/44	4500	40	112	40	114	40	112	40	114
	625UP	50/50	5000	44	114	44	116	44	114	44	116
	800UP	44/56	5700	51	114	50	116	51	114	50	116
	1000UP	35/65	6500	57	115	56	117	57	115	56	117

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

PERFORMANCE CHART (POINT SOURCE)

Per Point Source				PS06		PS12		PSE			
				4' Luminaire				4-8' Luminaires		> 8' Luminaires	
Distribution	Beamspread	Point Source Lumens	Delivered Lumens	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
Narrow Flood (NFL)	21°	250L	258	21	87	10	77	-	-	-	-
		350L	360	30	84	14	80	10	74	12	61
		450L	457	-	-	17	81	12	76	14	66
Flood 1 (FL1)	28°	250L	254	21	86	10	76	-	-	-	-
		350L	354	30	83	14	78	10	73	12	60
		450L	450	-	-	17	79	12	75	14	66
Flood 2 (FL2)	42°	250L	249	21	84	10	74	-	-	-	-
		350L	346	30	81	14	77	10	71	12	59
		450L	441	-	-	17	78	12	73	14	65
Wide Flood (WFL)	53°	250L	242	21	82	10	72	-	-	-	-
		350L	337	30	79	14	75	10	69	12	57
		450L	429	-	-	17	75	12	71	14	63

Based on 3500K. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

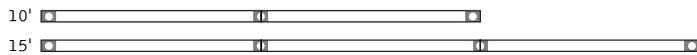7 point sources   3 point sources   2 point sources

Seem® 1 Point Source

POINT SOURCE SPACING GUIDE
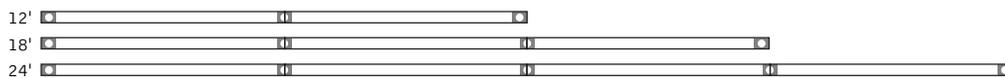
ON-CENTER SPACING EXAMPLES

PS4 - Nominal 4ft spacing across run
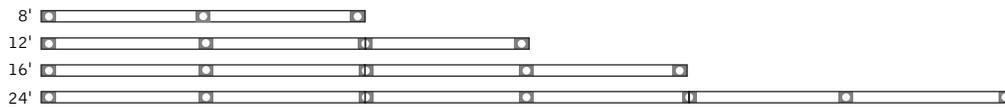
8'
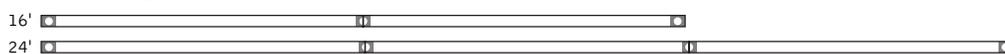12'
16'
24'

PS5 - Nominal 5ft spacing across run

10'
15'

PS6 - Nominal 6ft spacing across run

12'
18'
24'

PS8 - Nominal 8ft spacing across run

16'
24'

MIXED SPACING EXAMPLES

PSM - Mixed spacing across run. Point sources located at start and end of run as well as housing joints.

13'
20'

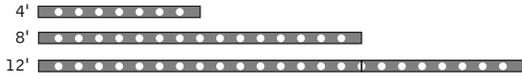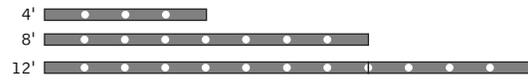| Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources	Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources
8	8'	PS4	3	30	5' + 5' + 5' + 5' + 5' + 5'	PS5	7
9	-	-	-	30	6' + 6' + 6' + 6' + 6'	PS6	6
10	5' + 5'	PS5	3	31	6' + 6' + 7' + 6' + 6'	PSM	6
11	-	-	-	32	8' + 8' + 8' + 8'	PS4	9
12	8' + 4'	PS4*	4	32	8' + 8' + 8' + 8'	PS8	5
12	6' + 6'	PS6	3	33	6' + 7' + 7' + 7' + 6'	PSM	6
13	4' + 5' + 4'	PSM*	4	34	7' + 7' + 6' + 7' + 7'	PSM	6
14	7' + 7'	PS7	3	35	5' + 5' + 5' + 5' + 5' + 5' + 5'	PS5	8
15	5' + 5' + 5'	PS5	4	35	7' + 7' + 7' + 7' + 7'	PS7	6
16	8' + 8'	PS4	5	36	8' + 8' + 8' + 8' + 4'	PS4*	10
16	8' + 8'	PS8	3	36	6' + 6' + 6' + 6' + 6' + 6'	PS6	7
17	6' + 5' + 6'	PSM	4	37	8' + 7' + 7' + 7' + 8'	PSM	6
18	6' + 6' + 6'	PS6	4	38	8' + 8' + 6' + 8' + 8'	PSM	6
19	6' + 7' + 6'	PSM	4	39	8' + 8' + 7' + 8' + 8'	PSM	6
20	8' + 8' + 4'	PS4*	6	40	8' + 8' + 8' + 8' + 8'	PS4	11
20	5' + 5' + 5' + 5'	PS5	5	40	8' + 8' + 8' + 8' + 8'	PS8	6
20	7' + 6' + 7'	PSM	4	40	5' + 5' + 5' + 5' + 5' + 5' + 5' + 5'	PS5	9
21	7' + 7' + 7'	PS7	4	41	6' + 6' + 6' + 5' + 6' + 6' + 6'	PSM	8
22	7' + 8' + 7'	PSM	4	42	6' + 6' + 6' + 6' + 6' + 6' + 6'	PS6	8
23	8' + 7' + 8'	PSM	4	42	7' + 7' + 7' + 7' + 7' + 7'	PS7	7
24	8' + 8' + 8'	PS4	7	43	6' + 6' + 6' + 7' + 6' + 6' + 6'	PSM	8
24	8' + 8' + 8'	PS8	4	44	8' + 8' + 8' + 8' + 8' + 4'	PS4*	12
24	6' + 6' + 6' + 6'	PS6	5	45	5' + 5' + 5' + 5' + 5' + 5' + 5' + 5' + 5'	PS5	10
25	5' + 5' + 5' + 5' + 5'	PS5	6	46	7' + 8' + 8' + 8' + 8' + 7'	PSM	7
26	7' + 6' + 6' + 7'	PSM	5	47	6' + 5' + 5' + 5' + 5' + 5' + 5' + 5' + 6'	PSM	10
27	6' + 5' + 5' + 5' + 6'	PSM	6	48	8' + 8' + 8' + 8' + 8' + 8'	PS4	13
28	8' + 8' + 8' + 4'	PS4*	8	48	8' + 8' + 8' + 8' + 8' + 8'	PS8	7
28	7' + 7' + 7' + 7'	PS7	5	48	6' + 6' + 6' + 6' + 6' + 6' + 6' + 6'	PS6	9
29	6' + 6' + 5' + 6' + 6'	PSM	6	>48	Consult Factory	-	-

*Not available with 125DN.

Seem® 1 Point Source

POINT SOURCE ONLY SPACING GUIDE

ON-CENTER SPACING EXAMPLES

PS06 - 6" Nominal on-center spacing

4'
8'
12'

PS12 - 12" Nominal on-center spacing

4'
8'
12'

Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources
4	4	PS06	7
5	5	PS06	9
6	6	PS06	11
7	7	PS06	13
8	8	PS06	15
9	5 + 4	PS06	17
10	6 + 4	PS06	19
11	7 + 4	PS06	21
12	8 + 4	PS06	23
13	8 + 5	PS06	25
14	8 + 6	PS06	27
15	8 + 7	PS06	29
16	8 + 8	PS06	31
17	8 + 5 + 4	PS06	32
18	8 + 6 + 4	PS06	34
19	8 + 7 + 4	PS06	36
20	8 + 8 + 4	PS06	38
21	8 + 8 + 5	PS06	40
22	8 + 8 + 6	PS06	42
23	8 + 8 + 7	PS06	44
24	8 + 8 + 8	PS06	46
25	8 + 8 + 5 + 4	PS06	47
26	8 + 8 + 6 + 4	PS06	49
27	8 + 8 + 7 + 4	PS06	51
28	8 + 8 + 8 + 4	PS06	53
29	8 + 8 + 8 + 5	PS06	55
30	8 + 8 + 8 + 6	PS06	57
31	8 + 8 + 8 + 7	PS06	59
32	8 + 8 + 8 + 8	PS06	61
33	8 + 8 + 8 + 5 + 4	PS06	62
34	8 + 8 + 8 + 6 + 4	PS06	64
35	8 + 8 + 8 + 7 + 4	PS06	66
36	8 + 8 + 8 + 8 + 4	PS06	68
37	8 + 8 + 8 + 8 + 5	PS06	70
38	8 + 8 + 8 + 8 + 6	PS06	72
39	8 + 8 + 8 + 8 + 7	PS06	74
40	8 + 8 + 8 + 8 + 8	PS06	76
41	8 + 8 + 8 + 8 + 5 + 4	PS06	77
42	8 + 8 + 8 + 8 + 6 + 4	PS06	79
43	8 + 8 + 8 + 8 + 7 + 4	PS06	81
44	8 + 8 + 8 + 8 + 8 + 4	PS06	83
45	8 + 8 + 8 + 8 + 8 + 5	PS06	85
46	8 + 8 + 8 + 8 + 8 + 6	PS06	87
47	8 + 8 + 8 + 8 + 8 + 7	PS06	89
48	8 + 8 + 8 + 8 + 8 + 8	PS06	91
>48	Consult Factory	-	-

Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources
4	4	PS12	3
5	5	PS12	4
6	6	PS12	5
7	7	PS12	6
8	8	PS12	7
9	5 + 4	PS12	8
10	6 + 4	PS12	9
11	7 + 4	PS12	10
12	8 + 4	PS12	11
13	8 + 5	PS12	12
14	8 + 6	PS12	13
15	8 + 7	PS12	14
16	8 + 8	PS12	15
17	8 + 5 + 4	PS12	15
18	8 + 6 + 4	PS12	16
19	8 + 7 + 4	PS12	17
20	8 + 8 + 4	PS12	18
21	8 + 8 + 5	PS12	19
22	8 + 8 + 6	PS12	20
23	8 + 8 + 7	PS12	21
24	8 + 8 + 8	PS12	22
25	8 + 8 + 5 + 4	PS12	22
26	8 + 8 + 6 + 4	PS12	23
27	8 + 8 + 7 + 4	PS12	24
28	8 + 8 + 8 + 4	PS12	25
29	8 + 8 + 8 + 5	PS12	26
30	8 + 8 + 8 + 6	PS12	27
31	8 + 8 + 8 + 7	PS12	28
32	8 + 8 + 8 + 8	PS12	29
33	8 + 8 + 8 + 5 + 4	PS12	29
34	8 + 8 + 8 + 6 + 4	PS12	30
35	8 + 8 + 8 + 7 + 4	PS12	31
36	8 + 8 + 8 + 8 + 4	PS12	32
37	8 + 8 + 8 + 8 + 5	PS12	33
38	8 + 8 + 8 + 8 + 6	PS12	34
39	8 + 8 + 8 + 8 + 7	PS12	35
40	8 + 8 + 8 + 8 + 8	PS12	36
41	8 + 8 + 8 + 8 + 5 + 4	PS12	36
42	8 + 8 + 8 + 8 + 6 + 4	PS12	37
43	8 + 8 + 8 + 8 + 7 + 4	PS12	38
44	8 + 8 + 8 + 8 + 8 + 4	PS12	39
45	8 + 8 + 8 + 8 + 8 + 5	PS12	40
46	8 + 8 + 8 + 8 + 8 + 6	PS12	41
47	8 + 8 + 8 + 8 + 8 + 7	PS12	42
48	8 + 8 + 8 + 8 + 8 + 8	PS12	43
>48	Consult Factory	-	-