

Seem® 1 Point Source

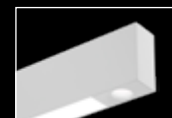
LED DIRECT/INDIRECT



Intermediate point source detail



Black finish



Surface Mount companion

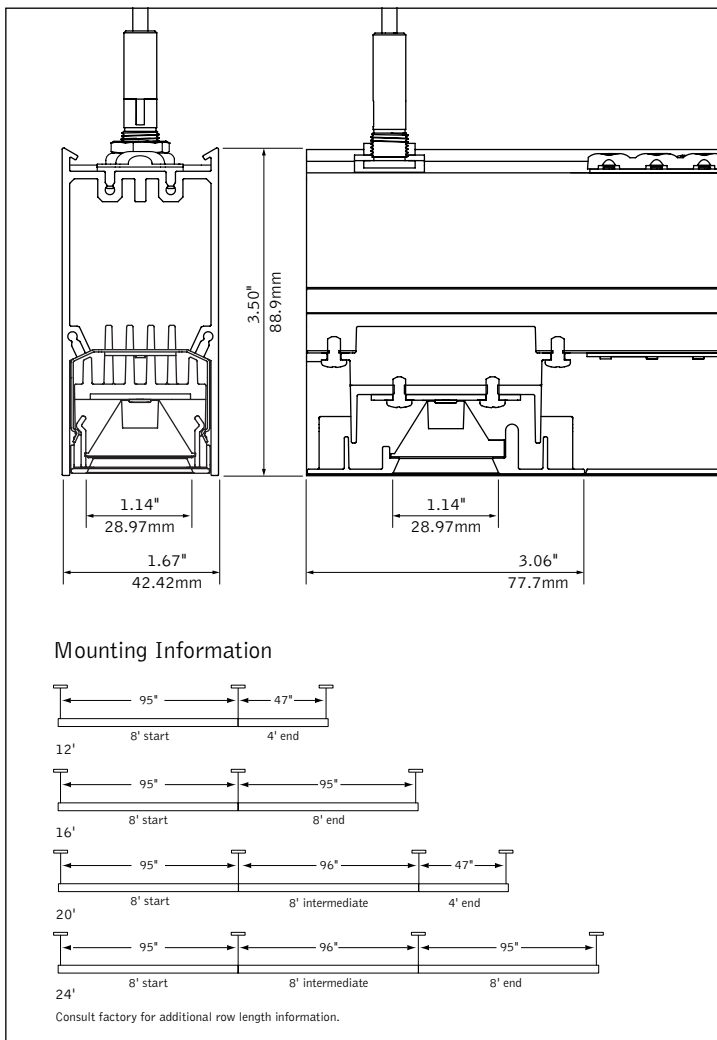


Direct suspended companion



Recessed companion

DIMENSIONAL DATA



FEATURES

Narrow extruded aluminum nominal 1.5" linear direct/indirect illumination with integrated point source downlights.

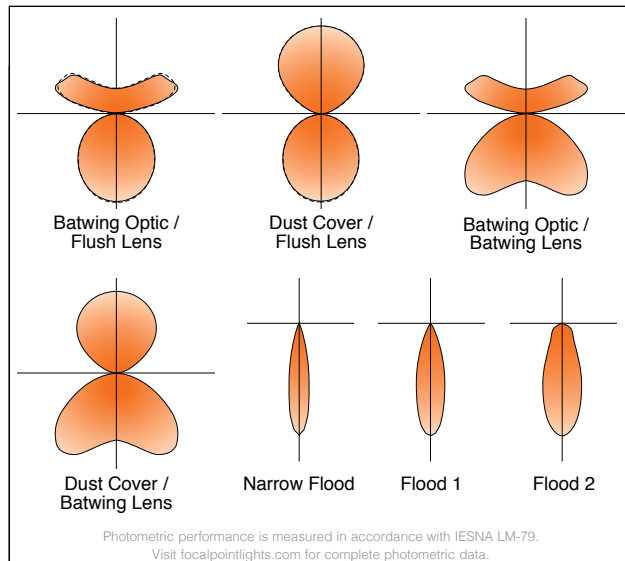
Individual units and continuous runs in 1' increments.

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.

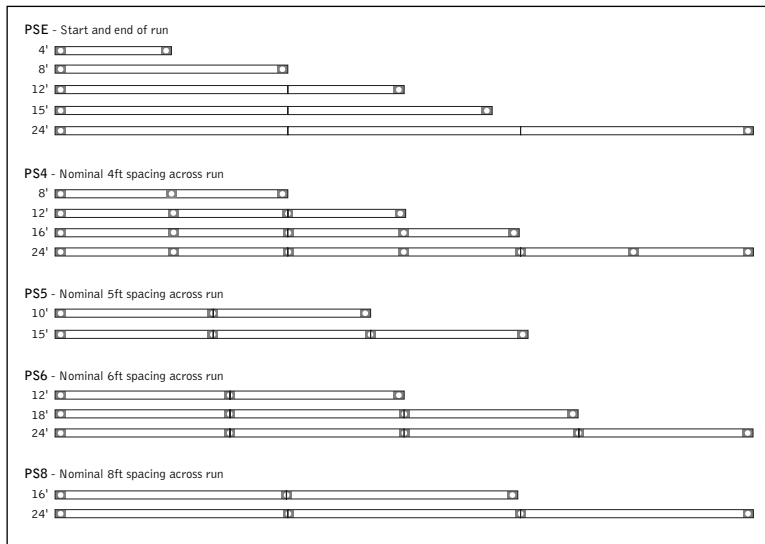
DISTRIBUTIONS



fixture:

project:

POINT SOURCE SPACING



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: 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.

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

Polyster 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

Seem 1 LED Point Source
 Direct/Indirect **FSM1DBS**

FSM1DBS

Shielding
 Dust Cover top/Flush lens bottom DCFL
 Dust Cover top/Batwing lens bottom DCBW
 Batwing Optic top/Flush lens bottom BWFL
 Batwing Optic top/Batwing lens bottom BWBW

Point Source Spacing
 Start and End of Run PSE
 Nominal 4ft Spacing PS4
(Consult factory for Lutron)
 Nominal 5ft Spacing PS5
 Nominal 6ft Spacing PS6
 Nominal 7ft Spacing PS7
 Nominal 8ft Spacing PS8
 Mixed Spacing PSM
(See point source spacing guide for more options.)

Point Source Lumens
 350 Lumens 350L
(Consult factory for Lutron)
 450 Lumens 450L

Point Source Distribution
 Narrow Flood NFL
 Flood 1 FL1
 Flood 2 FL2

Linear Direct Distribution
 125 Lumens per foot 125DN
(5' minimum length. See spacing guide for PS4 limitations. Consult factory for Lutron.)

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 125UP
(Consult factory for Lutron)
 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 2C
(Circuit 1 = Indirect, Circuit 2 = Direct & Point Source)
 Triple Circuit 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) LH1
 - 1% Dimming (5' minimum length)
 Lutron 5-Series EcoSystem (LDE5) LU5
 - 5% Dimming (5' minimum length)

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 (direct linear only) _EC
 Emergency Battery Pack _EM
(6' minimum length. See EM/EC Guide for default locations and ordering details.)

Finish
 Black BK
 Titanium Silver TS
 Matte White Housing WH

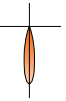


Luminaire Length
 Specify luminaire/row length
 in 1' increments _ft
(4' minimum. Smaller increments available, consult factory.)

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 (INDIVIDUAL POINT SOURCE)

| Distribution | Beamspread | Point Source Lumens | Delivered Lumens | Tested System Watts | LPW |
|--|------------|---------------------|------------------|---------------------|-----|
|  Narrow Flood (NFL) | 21° | 350L | 357 | 5 | 72 |
| | | 450L | 454 | 7 | 66 |
|  Flood 1 (FL1) | 29° | 350L | 318 | 5 | 64 |
| | | 450L | 404 | 7 | 59 |
|  Flood 2 (FL2) | 40° | 350L | 233 | 5 | 47 |
| | | 450L | 296 | 7 | 43 |

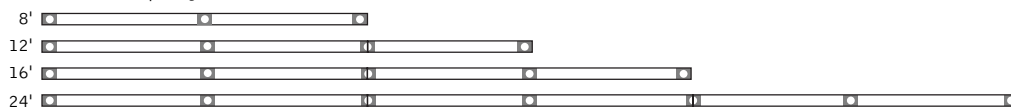
Based on 3500K. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Seem® 1 Point Source

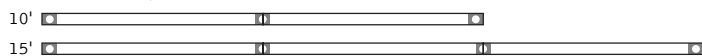
POINT SOURCE SPACING GUIDE

ON-CENTER SPACING EXAMPLES

PS4 - Nominal 4ft spacing across run



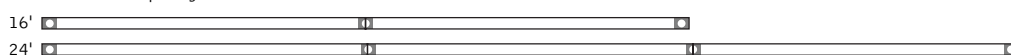
PS5 - Nominal 5ft spacing across run



PS6 - Nominal 6ft spacing across run

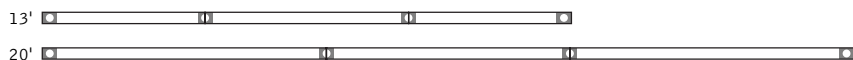


PS8 - Nominal 8ft spacing across run



MIXED SPACING EXAMPLES

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



| 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.