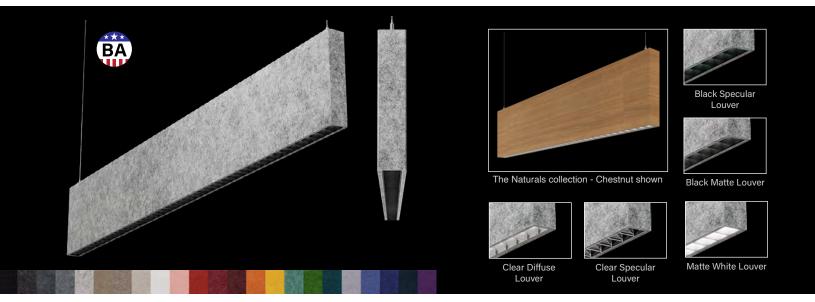
Seem® 1 Acoustic Louver

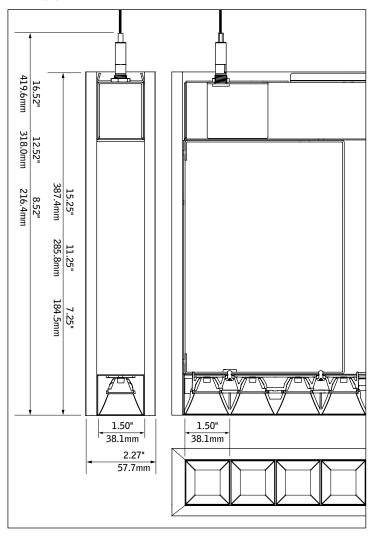


FOCAL POINT



DIMENSIONAL DATA

LED DIRECT/INDIRECT



FEATURES

Narrow, sound absorbing 1.5" aperture linear direct/indirect acoustic LED luminaire with louver and high-performance optics.

Available in 4' to 208' lengths in 6" increments with 8", 12" or 16" nominal housing heights in straight lengths.

Deeply regressed louver cells provide 60° cut-off from light source to promote visual comfort.

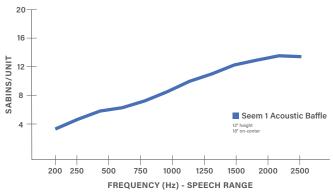
Diversity of louver finishes to tailor how the light is perceived and experienced, from nearly invisible light sources with a striking transition to warmly illuminated louver cells with a smooth transition.

AirCore® Technology: patented, eco-friendly technology that maximizes sound absorption and reduces ecological impact.

Pair with Seem 1 Acoustic unlit baffle, Seem 1 Acoustic Trio, AirCore Blade®, or TruBlade® to create a coordinated look in interior spaces.

Available with The Naturals, a series of finishes that exude biophilic beauty

ACOUSTIC PERFORMANCE



All products were tested in multiple configured arrays. Total absorption will vary based on configuration. Please

SPECIFICATIONS

Acoustic Material

| Content | Housing material is 100% polyester containing up to 50% of recycled plastic bottles (PET felt) and is moisture resistant. See page 3 for color offering. Acoustic material colors are subject to change without notice. For the most current color options, please visit focalpointlights. com/acousticsolutions. Lead times may vary depending on color. |
|-----------------------------------|--|
| Cleaning and Care | Remove dust and debris with a clean, soft, lint-free cloth or vacuum |
| PET Thickness | 9mm |
| Surface Burning Characteristcs | ASTM E84 Class A / CAN ULC S102 Flame Spread: 0, Smoke Development Index: 300 |

Acoustic Performance

Acoustic testing is performed on all Focal Point acoustic products and varies based on installation and configuration. ASTM C423 test reports can be downloaded from focalpointlights.com. Contact acoustic.solutions@focalpointlights.com for technical questions.

| Sabins | Sabins is a unit of sound absorption. It measures how well one square foot of material absorbs sound. Focal Point has averaged the Sabins per unit at four specific frequency bands representing the human speech range (250, 500, 1000, 2000 Hz) to determine the Sabins per product. |
|--------|--|
| | 8' length, 12" height: 12" OC = 5.08 Sabins, 18" OC = 9.05 Sabins, 24" OC = 9.46 Sabins |

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 drivers are replaceable from above. Color accuracy <3 SDCM.

Weight - 12" height, 4' length = 13.38lbs. 12" height, 6' length = 19.51lbs. 12" height, 8' length = 25.64lbs.

Optic

60-degree cut-off to louvered light source and its image.

Mounting

Minimum mounting height 7.5" from the ceiling.

Flectrica

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. Power cord white as standard.

Canopy

Polyester powder coat applied over a multi-stage pre-treatment. Canopy white as standard.

Emergency Battery

Emergency output - 10 watts for 90 minutes. Maximum mounting height: 16.83ft.

Labels

UL and cUL listed. Suitable for Dry Locations, indoor use only.

Lumen Maintenance

Linear Source

Louvered Sources

Reported: L70 at >54,000 hours Calculated: L70 at 138,000 hours
L90 at 43,000 hours L90 at 43,000 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 and when mounted no less than 7.5" from the ceiling. 5-year limited warranty.

DISTRIBUTIONS

| | NFL | FL1 | FL2 | WFL | LMC |
|------------------|------|------|------|------|------|
| Beam Spread | 20° | 29° | 43° | 67° | 68° |
| Spacing Criteria | 0.36 | 0.50 | 0.70 | 0.98 | 1.18 |

4' PERFORMANCE CHART

See page 4

| ORDERING Luminaire Series Seem 1 Acoustic Louver Direct/Indirect | ASM1CBS | ASM1CBS |
|--|----------------------------|---------|
| Shielding Batwing Optic Top/Louver Bottom Dust Cover Top/Louver Bottom | BWLC DCLC | |
| Louver Configuration | LF | LF |
| Fully Louvered Luminaire Height | LF | |
| (heights are nominal) | 8 | |
| 12" | 12 | |
| 16" | 16 | |
| Indirect Distribution | | |
| 250 Lumens per foot | 250UP | |
| 375 Lumens per foot 500 Lumens per foot | 375UP 500UP | |
| 625 Lumens per foot | 625UP | |
| 800 Lumens per foot (Not available with D11) | 800UP | |
| Direct Louvered Distribution | | |
| 250 Lumens per foot (Consult factory for available options) | 250DL | |
| (Consult factory for available options) 375 Lumens per foot | 375DL | |
| 500 Lumens per foot | 500DL | |
| 625 Lumens per foot | 625DL | |
| 750 Lumens per foot 875 Lumens per foot | 750DL 875DL | |
| 1000 Lumens per foot | 1000DL | |
| Color Temperature | | |
| 2700K, 80CRI or 90CRI 3000K, 80CRI or 90CRI | 27K or 927K 30K or 930K | |
| 3500K, 80CRI or 90CRI | 35K or 935K | |
| 4000K, 80CRI or 90CRI | 40K or 940K | |
| Circuit | | |
| Single Circuit Dual Circuit | 1C 2C | |
| (Circuit 1 = Indirect, Circuit 2 = All Direct sources.) | 20 | |
| Voltage | | UNV |
| 120/277 UNV Volt | UNV | |
| Control System & Dimming Level | | |
| 0-10V - 10% Dimming 0-10V - 1% Dimming | LD1 L11 | |
| Lutron Hi-Lume EcoSystem (LDE1) - | LH1 | |
| 1% Dimming DALI 1% Dimming | D11 | |
| Mounting | DIII | |
| (Mounting hang kits ship with order. Power cable is 18" longer than suspension length. Consult factory for longer power cable lengths.) | | |
| 24" Cable Suspension | J24 | |
| 48" Cable Suspension 96" Cable Suspension | J48 J96 | |
| 120" Cable Suspension | J120 | |
| (Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.) (Consult factory for sloped ceiling applications) | | |
| Distribution | | |
| Narrow Flood | NFL | |
| Flood 1 Flood 2 | FL1 FL2 | |
| Wide Flood | WFL | |
| Louvered Mixing Chamber | LMC | |
| Factory Options | | |
| Black Cord | BKCD | |
| Emergency Circuit | _EC EM | |
| Emergency Battery Pack† †(6' minimum length. Consult factory for available options.) | _EIVI | |
| Louver Finish | DV | |
| Matte Black Black Specular | BK BS | |
| Clear Diffuse | CD | |
| Clear Specular Matte White | CS WH | |
| Acoustic Panel Color | 4411 | |
| See page 3 for color offering | | |
| Luminaire Length (Luminaires are 3/4" longer than specified and cannot be cut to | | ft in |
| length or joined in the field.) Specify length in 6" increments | _ft _in | |
| from 4' to 208' | | |

Acoustic Materials



FOCAL POINT®

DPP

THE NATURALS (25% SCALE)

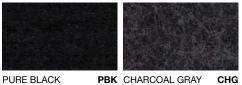


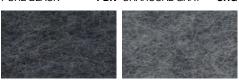






STANDARD PET











HAZELWOOD **HZW**



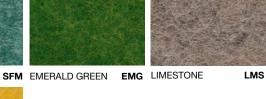














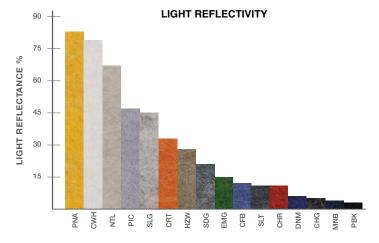
Polyethylene terephthalate: PET, N, N*Ethylene blsstearamide: Octadecanamide, N,N*1,2-ethanediylbis-; Stearic Acid: Stearic Acid: Antioxidant 1076: Benzenepropanoic acid, 3,5-bis(1)-dimethylethyl)-4-hydroxy-octadecyl ester; Antioxidant KY*405; Benzenamine, 4-(1-methyl-1-phenylethyl)-yhenyltyl)-N*(4-(1-methyl-1-phenylethyl)-yhenyltyl)-XTitanium Dioxide: Titanium dioxide

Living Building Challenge Criteria:

I-10 Interior Performance: Not Compliant I-14 Responsible Sourcing: Not Applicable

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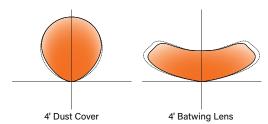


NTL

4' PERFORMANCE CHART INDIRECT DISTRIBUTION

| Indirect | D. I | Tested | Lumens per Watt (LPW) | | |
|--------------|------------------|--------------|-----------------------|-----|--|
| Lumen Output | Delivered Lumens | System Watts | BW | DC | |
| 250LF | 1000 | 8 | 118 | 123 | |
| 375LF | 1500 | 12 | 130 | 130 | |
| 500LF | 2000 | 15 | 134 | 134 | |
| 625LF | 2500 | 18 | 136 | 136 | |
| 800LF | 3200 | 24 | 133 | 133 | |

PERFORMANCE CURVES



Based on 3500k, 80CRI, 4' lengths. 90 CRI Lumen multiplier = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

4' PERFORMANCE CHART LOUVER DISTRIBUTION

| Distribution | Lumens per Foot | Tested System Watts | LPW |
|--------------|-----------------|---------------------|-----|
| | 250 | 11.0 | 92 |
| | 375 | 14.7 | 101 |
| | 500 | 19.3 | 106 |
| WFL | 625 | 24.3 | 105 |
| | 750 | 28.3 | 107 |
| | 875 | 32.6 | 107 |
| | 1000 | 37.0 | 108 |

Based on 4' luminaire, 3500K, 80 CRI, Matte Black baffle. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

PERFORMANCE CURVES







Flood 1 (FL1)



Flood 2 (FL2)



Wide Flood (WFL)



Louvered Mixing Chamber (LMC)

SEEM 1 ACOUSTIC LOUVER LUMEN MULTIPLIER TABLE

Louver Color Temperature & CRI

| Color Temperature | Multiplier |
|-----------------------|------------|
| 2700K, 80+ CRI [27K] | 0.95 |
| 2700K, 90+ CRI [927K] | 0.80 |
| 3000K, 80+ CRI [30K] | 0.97 |
| 3000K, 90+ CRI [930K] | 0.83 |
| 3500K, 80+ CRI [35K] | 1.00 |
| 3500K, 90+ CRI [935K] | 0.85 |
| 4000K, 80+ CRI [40K] | 1.03 |
| 4000K, 90+ CRI [940K] | 0.87 |

Louver Distribution

| Distribution | Multiplier |
|-------------------------------|------------|
| Narrow Flood [NFL] | 1.34 |
| Flood 1 [FL1] | 1.14 |
| Flood 2 [FL2] | 1.21 |
| Wide Flood [WFL] | 1.00 |
| Louvered Mixing Chamber [LMC] | 0.97 |

Louver Finish

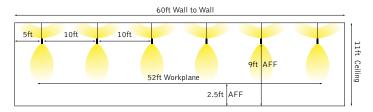
| Color | Multiplier |
|---------------------|------------|
| Matte Black [BK] | 1.00 |
| Black Specular [BS] | 1.00 |
| Clear Diffuse [CD] | 1.07 |
| Clear Specular [CS] | 1.10 |
| Matte White [WH] | 1.11 |

How To Use Lumen Multipliers

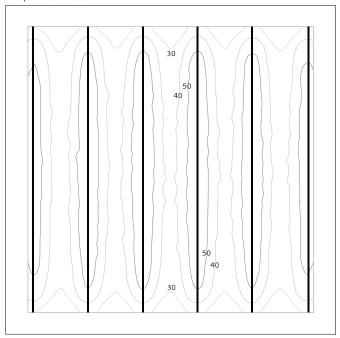
Formula: (Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Finish)

Louver Example: FSM1CBS-1000DL-930K-NFL-BS $(1000) \times (0.83) \times (1.34) \times (1.00) \approx 1112.2 \text{ Im (estimated delivered lumens)}$

SEEM 1 ACOUSTIC LOUVER APPLICATION EXAMPLE - BATWING INDIRECT / FULLY LOUVERED



Workplane Illuminance



Average Illuminance = 41 fc

Lighting Power Density (LPD) = 0.49

Seem 1 Acoustic Louver with batwing indirect and fully louvered direct illumination is a powerful and efficacious solution for open working environments. Workplanes benefit from 41 footcandles or more and superior uniformity with a lighting power density of less than 0.5 while maintaining luminaire on-center spacing of 10 feet or greater.

Calcluation Details

60ft x 60ft Room Area: Calculation Area: 52ft x 52ft Ceiling Height: 11ft Luminaire Height: 9ft AFF Luminiare Spacing: 10ft OCS Workplane Height: 2.5ft AFF Reflectances: 80/50/20 Light Loss Factor: 0.9

Luminaire Details

Shielding: Batwing Indirect

Fully Louvered, Wide Flood, Direct

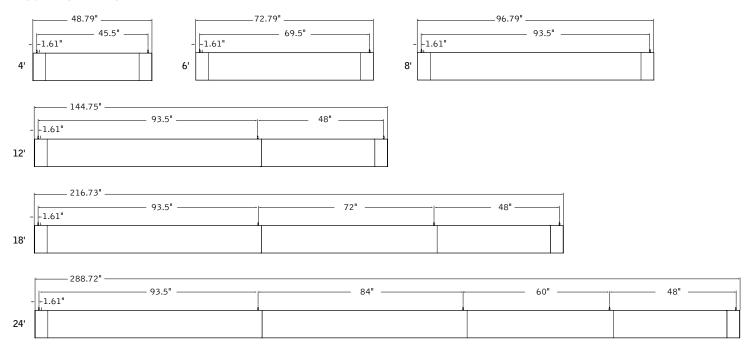
Lumens per foot: 250 Indirect

250 Direct

Louver finish: Matte Black

| Insta | Installation | | Louver | LPD | Work | plane | Ceil | ing |
|-------------------|----------------------|----------------------|--------------|-------------|------------------------|------------------------------|------------------------|------------------------------|
| Ceiling Height | On-center Spacing | Lumens/ft (UP/DN) | Distribution | (Watts/ft²) | Average Footcandles | Uniformity (avg. to min.) | Average Footcandles | Uniformity (avg. to min.) |
| 1164 | - 10ft | | WFL | 0.49 | 43.1 | 1.99 | 29.1 | 2.69 |
| 11ft | | 10ft 250/250 | LMC | | 42.1 | 2.11 | 28.9 | 2.69 |
| 12.5ft | | | WFL | | 41.9 | 1.79 | 29.0 | 2.64 |
| | | | LMC | | 41.0 | 1.77 | 28.8 | 2.65 |
| 10 F# | 12ft | 12ft 375/250 | WFL | 0.40 | 41.9 | 1.88 | 35.5 | 3.27 |
| 12.5ft | | | LMC | 0.48 | 41.0 | 1.96 | 35.3 | 3.29 |

MOUNTING DETAILS



↓ FEED LOCATION

RUN CHART

| Run length (ft) | Housing Configuration Section Lengths | # of hang points per run |
|-----------------|---------------------------------------|-----------------------------|
| 9 | 5 + 4 | 3 |
| 10 | 6 + 4 | 3 |
| 11 | 7 + 4 | 3 |
| 12 | 8 + 4 | 3 |
| 13 | 8 + 5 | 3 |
| 14 | 8 + 6 | 3 |
| 15 | 8 + 7 | 3 |
| 16 | 8 + 8 | 3 |
| 17 | 8 + 5 + 4 | 4 |
| 18 | 8 + 6 + 4 | 4 |
| 19 | 8 + 7 + 4 | 4 |
| 20 | 8 + 7 + 5 | 4 |
| 21 | 8 + 7 + 6 | 4 |
| 22 | 8 + 7 + 7 | 4 |
| 23 | 8 + 7 + 8 | 4 |
| 24 | 8 + 7 + 5 + 4 | 5 |
| 25 | 8 + 7 + 6 + 4 | 5 |
| 26 | 8 + 7 + 7 + 4 | 5 |
| 27 | 8 + 7 + 7 + 5 | 5 |
| 28 | 8 + 7 + 7 + 6 | 5 |

| Run length (ft) | Housing Configuration Section Lengths | # of hang points per run |
|-----------------|---------------------------------------|-----------------------------|
| 29 | 8 + 7 + 7 + 7 | 5 |
| 30 | 8 + 7 + 7 + 8 | 5 |
| 31 | 8 + 7 + 7 + 5 + 4 | 6 |
| 32 | 8 + 7 + 7 + 6 + 4 | 6 |
| 33 | 8 + 7 + 7 + 7 + 4 | 6 |
| 34 | 8+7+7+7+5 | 6 |
| 35 | 8 + 7 + 7 + 7 + 6 | 6 |
| 36 | 8+7+7+7+7 | 6 |
| 37 | 8 + 7 + 7 + 7 + 8 | 6 |
| 38 | 8+7+7+7+5+4 | 7 |
| 39 | 8 + 7 + 7 + 7 + 6 + 4 | 7 |
| 40 | 8+7+7+7+4 | 7 |
| 41 | 8+7+7+7+5 | 7 |
| 42 | 8+7+7+7+6 | 7 |
| 43 | 8+7+7+7+7+7 | 7 |
| 44 | 8 + 7 + 7 + 7 + 7 + 8 | 7 |
| 45 | 8+7+7+7+7+5+4 | 8 |
| 46 | 8+7+7+7+7+6+4 | 8 |
| 47 | 8 + 7 + 7 + 7 + 7 + 7 + 4 | 8 |
| 48 | 8+7+7+7+7+5 | 8 |