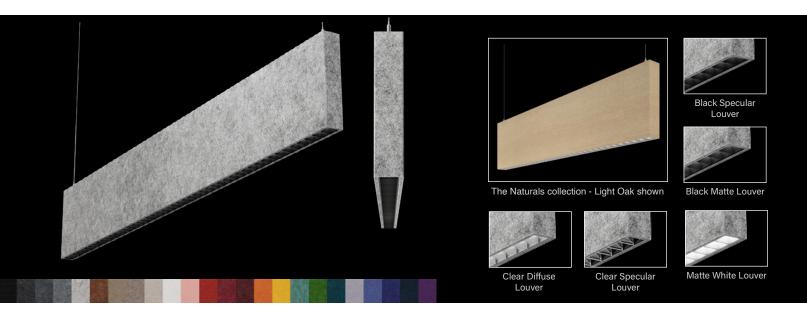
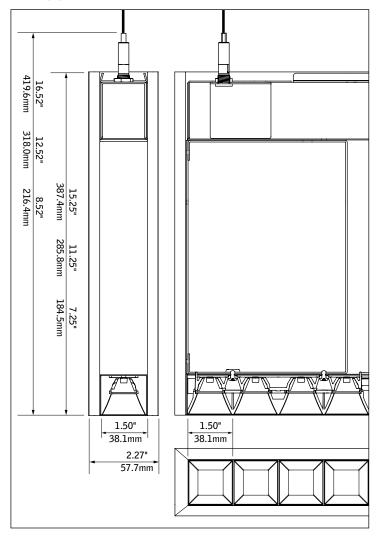
Seem® 1 Acoustic Louver

LED DIRECT





DIMENSIONAL DATA



FEATURES

Narrow, sound absorbing 1.5" aperture linear direct acoustic 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.

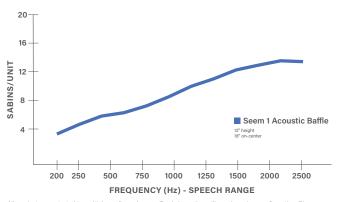
Diversity of louver finishes to tailor how the light is perceived and experienced, from nearly invisible light sources with a striking transition to warmly illuminated louver cells with a smooth transition.

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.

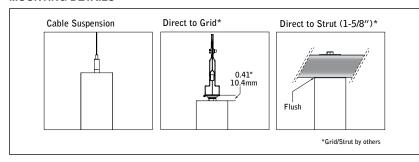
Available with The Naturals, a series of finishes that exude biophilic beauty

ACOUSTIC PERFORMANCE



All products were tested in multiple configured arrays. Total absorption will vary based on configuration. Pleas refer to ASTM C423 reports for more information.

MOUNTING DETAILS



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 with 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 ASTM E84 Class A / CAN ULC S102		
Characteristcs	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 = 10.75lbs. 12" height, 6' length = 16.13lbs. 12" height, 8' length = 21.5lbs.

Optio

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

Electrica

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 (suspended mounting only)

 $\hbox{Polyester powder coat applied over a multi-stage pre-treatment. Canopy white as standard.}\\$

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

 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. 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	ASM1CS	_ASM1CS
Shielding	ASIVITOS	LC
Louver	LC	
Louver Configuration		LF
Fully Louvered	LF	
Luminaire Height		
(heights are nominal) 8"	8	
12"	12	
16"	16	
Lumen Output 250 Lumens per foot	250DL	
375 Lumens per foot	375DL	
500 Lumens per foot	500DL 625DL	
625 Lumens per foot 750 Lumens per foot	750DL	
875 Lumens per foot	875DL	
1000 Lumens per foot	1000DL	
Color Temperature		
2700K, 80CRI or 90 CRI	27K or 927K	
3000K, 80CRI or 90 CRI 3500K, 80CRI or 90 CRI	30K or 930K 35K or 935K	
4000K, 80CRI or 90 CRI	40K or 940K	
Circuit		1C
Single Circuit	1C	
Voltage		UNV
120/277 UNV Volt	UNV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming Lutron Hi-Lume EcoSystem (LDE1) -	L11 LH1	
1% Dimming	2111	
DALI 1% Dimming	D11	
Mounting		
(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)		
Surface Mounted		
(30" power cable standard. Consult factory for longer power cable lengths.)	DTO	
Direct/Flush to Grid Direct/Flush to Strut	DTG DTS	
Distribution	D10	
Narrow Flood	NFL	
Flood 1	FL1	
Flood 2	FL2	
Wide Flood Louvered Mixing Chamber	WFL LMC	
_	LIVIC	
Factory Options Black Cord	BKCD	
Emergency Circuit	EC	
Emergency Battery Pack	_EM	
(5' min. length) Louver Finish		
Matte Black	BK	
Black Specular	BS	
Clear Diffuse Clear Specular	CD CS	
Matte White	WH	
Acoustic Panel Color		
See page 3 for color offering		
Luminaire Length		ft in
(Luminaires are 3/4" longer than specified and cannot be cut to length or joined in the field.)		
Specify length in 6" increments from 4' to 208'	_ft _in	
(16' maximum for DTG, consult factory for alternate lengths.)		

(16' maximum for DTG, consult factory for alternate lengths.)

Acoustic Materials



FOCAL POINT®

DPP

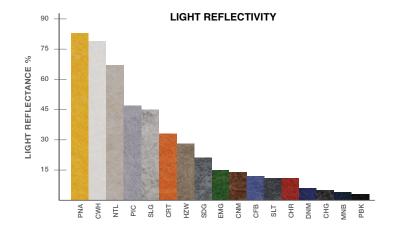
BLS

THE NATURALS (25% SCALE)



STANDARD PET **PREMIUM PET** PURE BLACK PBK CHARCOAL GRAY CHG **DNB** MIDNIGHT BLUE CORNFLOWER BLUE CFB DENIM BLUE SLATE **SLT** SHADOW GRAY SDG **BRD** CHERRY RED CHR BERRY BRICK RED SILVER GRAY SLG PEARLICE PIC DEEP WATER **DWT** SEAFOAM **SFM** EMERALD GREEN CLASSIC WHITE **CWH** NATURAL LINEN NTL CARROT **CRT** PINEAPPLE **PNA**

CINNAMON



Pinal Assembly: Chicago, Illinois, USA Life Expectancy: 30 Year(s) End of Life Options: Salvageable/Reusable in its Entirety, Recyclable (100%) Ingredients: Polyethylene terephthalate: PET; N, N'-Ethylene bisstearamide: Octadecanamide, N,N'-1,2-ethanediylbis-; Stearic Acid: Stearic Acid: Antioxidant 1076: Benzenepropanolic acid, 35-bis(1,1-methyle+1p)-4-hydroxy-, octadecyl ester; Antioxidant KY-405: Benzenamine, 4-(1methyl-1-phenylethyl)-N-1,4-(1-methyl-1-phenylethyl)-phenylighylTitanium Dioxide: Titanium dioxide Living Building Challenge Criteria: Compliant P13 Red List: LIBC Red List Free LIBC Red List Approved Declared P0 Liscosed: 100% at 100ppm VOC Content: Not Applicable FPL-0001 EXP. 01 APR 2025 Original Issue Date: 2020

MNB DEEP PURPLE

BRY BLUSH

HAZELWOOD

HZW

CNM LIMESTONE

LMS

4' PERFORMANCE CHART

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











(LMC)

Wide Flood (WFL)

MULTIPLIER TABLE

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

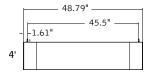
Color	Multiplier
Matte Black [BK]	1.00
Black Specular [BS]	1.00
Clear Diffuse [CD]	1.07
Clear Specular [CS]	1.10
Matte White [WH]	1.11

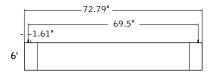
How To Use Lumen Multipliers

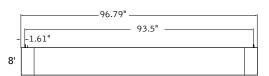
Formula: (Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Finish)

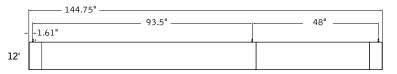
Louver Example: ASM1CS-1000DL-930K-NFL-BS $(1000) \times (0.83) \times (1.34) \times (1.00) \approx 1112.2 \text{ Im (estimated delivered lumens)}$

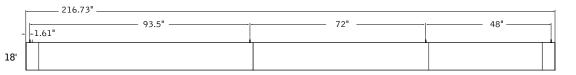
MOUNTING DETAILS (see Run Chart on following page for number of hang points per run)

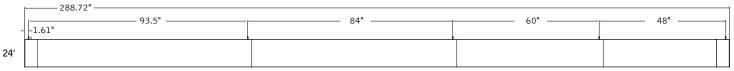




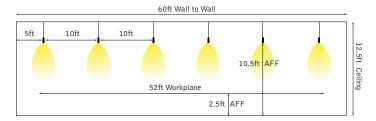




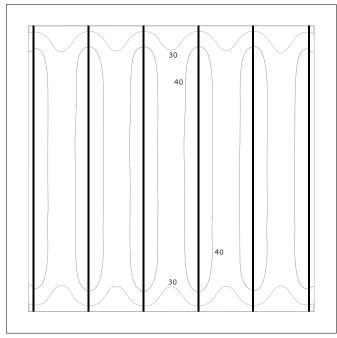




SEEM 1 ACOUSTIC LOUVER APPLICATION EXAMPLE



Workplane Illuminance



Average Illuminance = 38 fc

Lighting Power Density (LPD) = 0.38

Seem 1 Acoustic Louver with fully louvered direct illumination is a powerful and efficacious solution for open working environments. Workplanes benefit from 32 footcandles or more and superior uniformity with a lighting power density of less than 0.38 while maintaining luminaire on-center spacing of 8 feet or greater.

Calcluation Details

Room Area: 60ft x 60ft Calculation Area: 52ft x 52ft Ceiling Height: 12.5ft Luminaire Height: 10.5ft AFF Luminiare Spacing: 10ft OCS Workplane Height: 2.5ft AFF Reflectances: 80/50/20 Light Loss Factor: 0.9

Luminaire Details

Shielding: Fully Louvered, Wide Flood

Lumens per foot: 375 Direct
Louver finish: Matte Black

Installation			Louver	LPD	Workplane		
Ceiling Height	AFF	On-center Spacing	Lumens/ft	Distribution	(Watts/ft²)	Average Footcandles	Uniformity (avg. to min.)
11ft	9ft	0501.5	WFL	0.24	33.1	2.00	
1111 911	04		LMC		32.0	1.95	
		8ft	250LF	WFL	0.34	31.7	2.03
12.5ft 10.5ft	10 F#			LMC		32.0	1.95
	10.511	10ft	375LF	WFL	0.38	38.1	1.98
				LMC	0.30	36.8	1.96

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 + 7 + 4	7
41	8 + 7 + 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