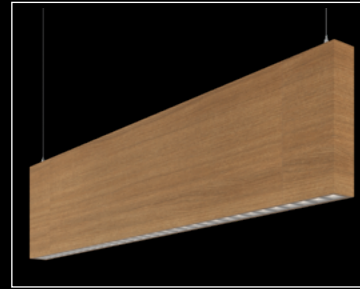
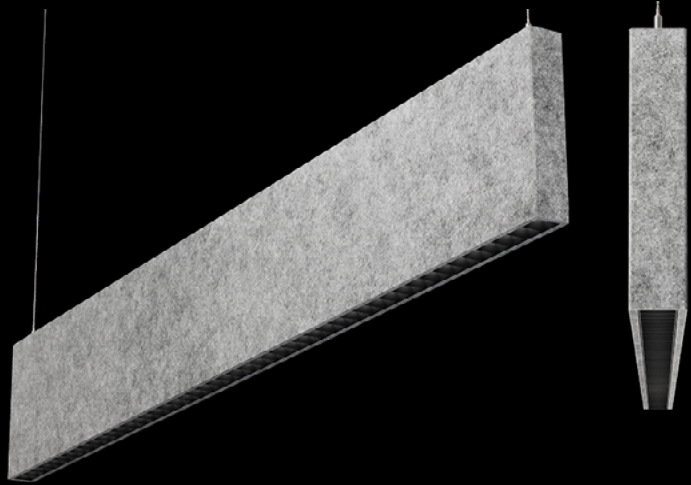


Seem® 1 Acoustic Louver

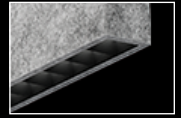
LED DIRECT/INDIRECT



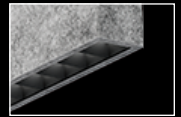
FOCAL POINT®



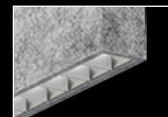
The Naturals collection - Chestnut shown



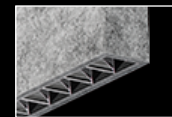
Black Specular Louver



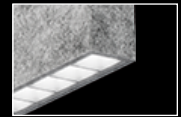
Black Matte Louver



Clear Diffuse Louver

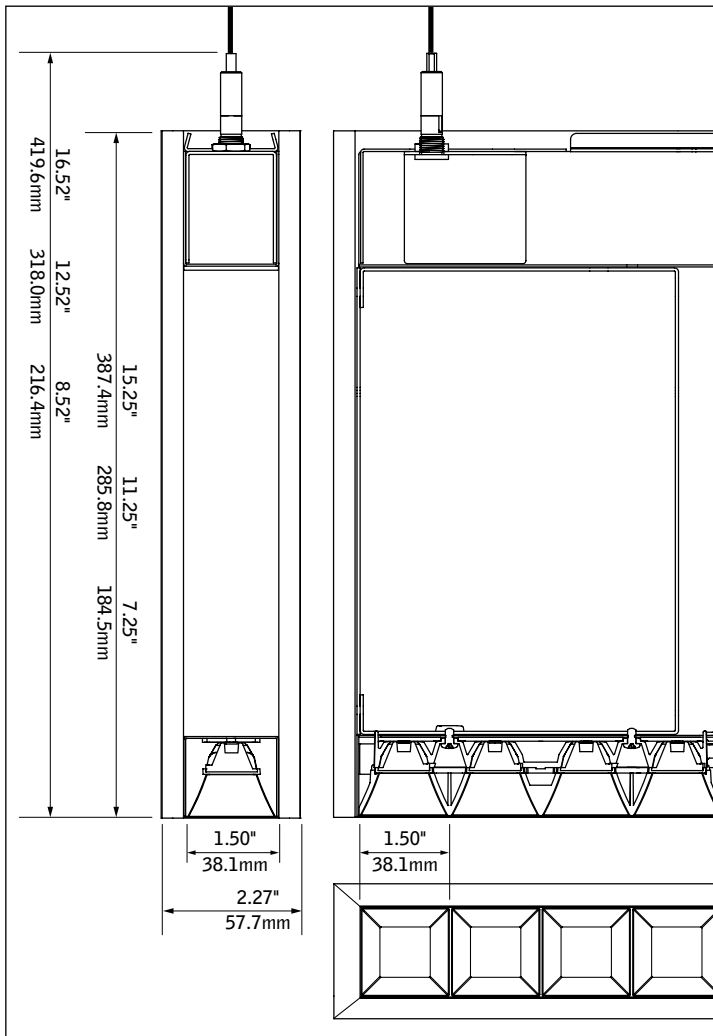


Clear Specular Louver



Matte White Louver

DIMENSIONAL DATA



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.

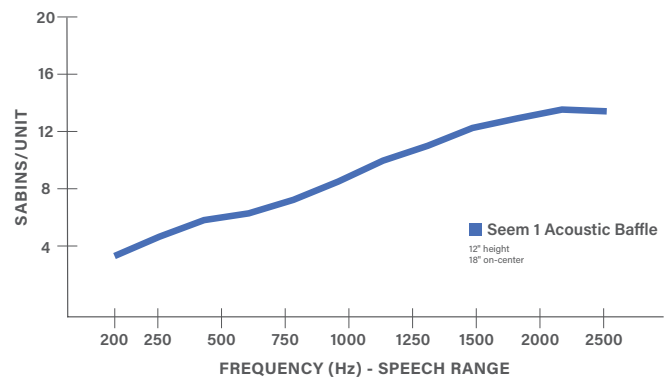
Diversity of louver finishes to tailor how the light is perceived and experienced, from nearly invisible light sources with a striking transition to warmly illuminated louver cells with a smooth transition.

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 refer to ASTM C423 reports for more information.

fixture:

project:

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 Characteristics	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
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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.

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. 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

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

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	BWLC
Dust Cover Top/Louver Bottom	DCLC

Louver Configuration

Fully Louvered LF

LF

Luminaire Height

(heights are nominal)	8"
	12"
	16"

Indirect Distribution

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

(Not available with D11)

Direct Louvered Distribution

250 Lumens per foot	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	750DL
875 Lumens per foot	875DL
1000 Lumens per foot	1000DL

Color Temperature

2700K, 80CRI or 90CRI	27K or 927K
3000K, 80CRI or 90CRI	30K or 930K
3500K, 80CRI or 90CRI	35K or 935K
4000K, 80CRI or 90CRI	40K or 940K

Circuit

Single Circuit	1C
Dual Circuit	2C

(Circuit 1 = Indirect, Circuit 2 = All Direct sources.)

Voltage

120/277 UNV UNV

UNV

Control System & Dimming Level

0-10V - 10% Dimming	LD1
0-10V - 1% Dimming	L11
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
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	J48__
96" Cable Suspension	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	FL1
Flood 2	FL2
Wide Flood	WFL
Louvered Mixing Chamber	LMC

Factory Options

Black Cord	BKCD
Emergency Circuit	_EC
Emergency Battery Pack†	_EM

†(6" minimum length. Consult factory for available options.)

Louver Finish

Matte Black	BK
Black Specular	BS
Clear Diffuse	CD
Clear Specular	CS
Matte White	WH

Acoustic Panel Color

See page 3 for color offering

Luminaire Length

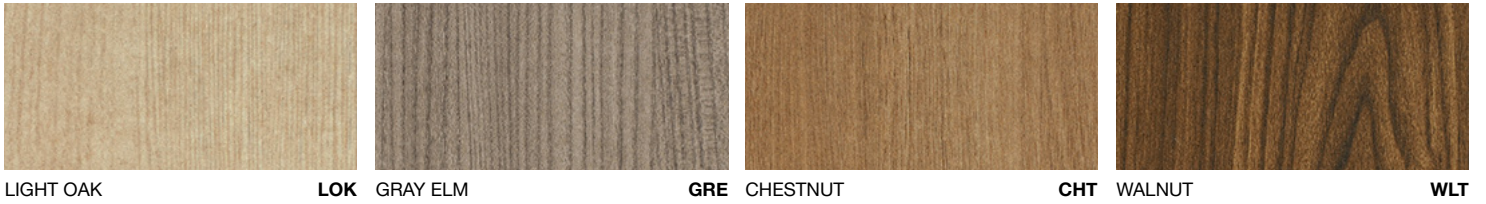
(Luminaires are 3/4" longer than specified and cannot be cut to length or joined in the field.)

Specify length in 6" increments	_ft _in
from 4' to 208'	

Acoustic Materials



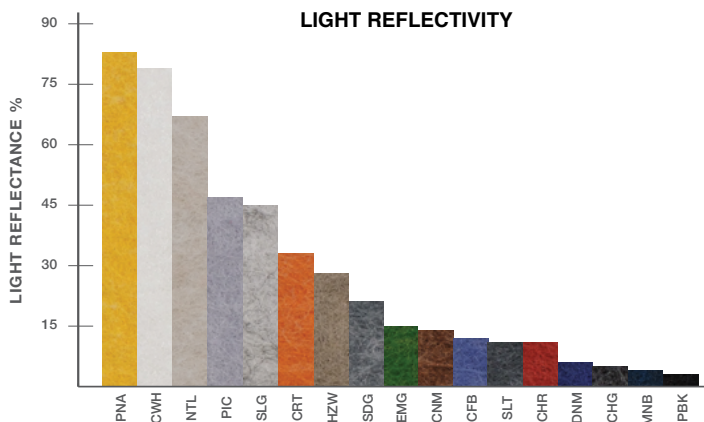
THE NATURALS (25% SCALE)



STANDARD PET



PREMIUM PET



9mm PET Felt
Focal Point, LLC

Final 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:** Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester; **Antioxidant KY-405:** Benzenamine, 4-(1-methyl-1-phenylethyl) -N-[4-(1-methyl-1-phenylethyl)phenyl]-; **Titanium Dioxide:** Titanium dioxide

Living Building Challenge Criteria: Compliant

I-13 Red List:

- LBC Red List Free
- LBC Red List Approved
- Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: CDPH Standard Method v1.2-2017
I-14 Responsible Sourcing: Not Applicable

FPL-0001
EXP. 01 APR 2025
Original Issue Date: 2020

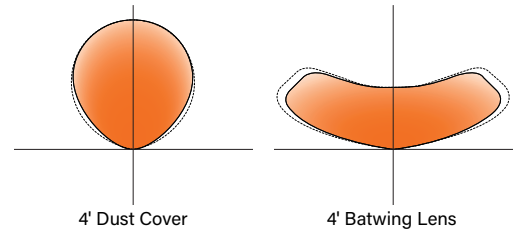
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

4' PERFORMANCE CHART INDIRECT DISTRIBUTION

Indirect Lumen Output	Delivered Lumens	Tested System Watts	Lumens per Watt (LPW)	
			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

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

PERFORMANCE CURVES

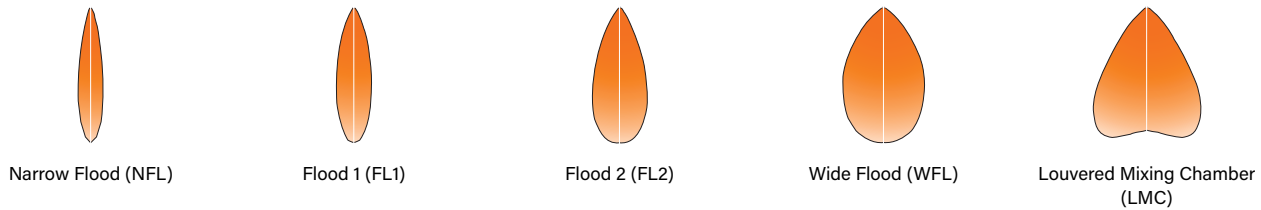


4' PERFORMANCE CHART LOUVER DISTRIBUTION

Distribution	Lumens per Foot	Tested System Watts	LPW
WFL	250	11.0	92
	375	14.7	101
	500	19.3	106
	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

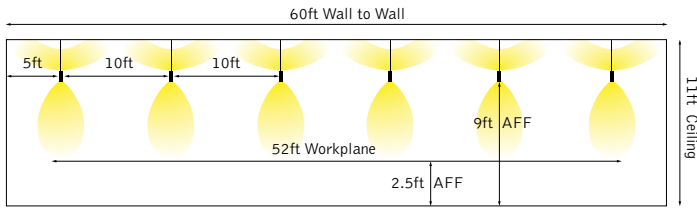


SEEM 1 ACOUSTIC LOUVER LUMEN MULTIPLIER TABLE

Louver Color Temperature & CRI		Louver Distribution		Louver Finish	
Color Temperature	Multiplier	Distribution	Multiplier	Color	Multiplier
2700K, 80+ CRI [27K]	0.95	Narrow Flood [NFL]	1.34	Matte Black [BK]	1.00
2700K, 90+ CRI [927K]	0.80	Flood 1 [FL1]	1.14	Black Specular [BS]	1.00
3000K, 80+ CRI [30K]	0.97	Flood 2 [FL2]	1.21	Clear Diffuse [CD]	1.07
3000K, 90+ CRI [930K]	0.83	Wide Flood [WFL]	1.00	Clear Specular [CS]	1.10
3500K, 80+ CRI [35K]	1.00	Louvered Mixing Chamber [LMC]	0.97	Matte White [WH]	1.11
3500K, 90+ CRI [935K]	0.85				
4000K, 80+ CRI [40K]	1.03				
4000K, 90+ CRI [940K]	0.87				

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) x (0.83) x (1.34) x (1.00) ≈ 1112.2 lm (estimated delivered lumens)

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

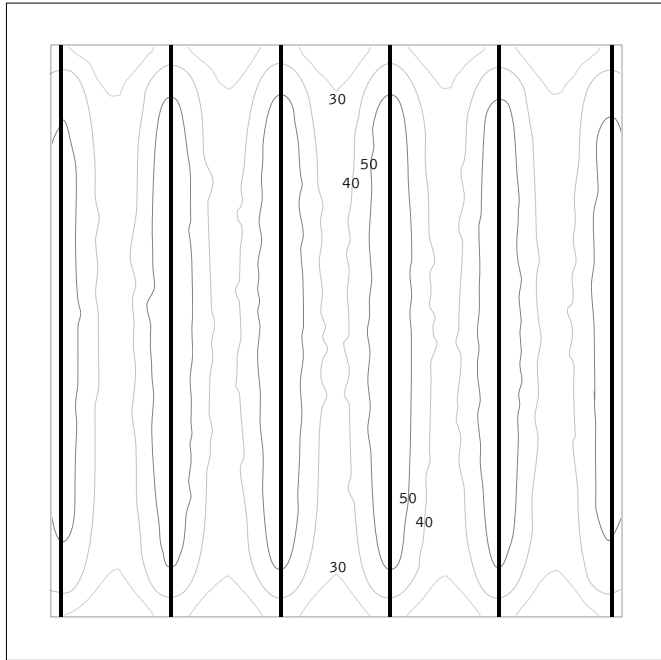


Average Illuminance = 41 fc

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.

Workplane Illuminance



Calculation Details

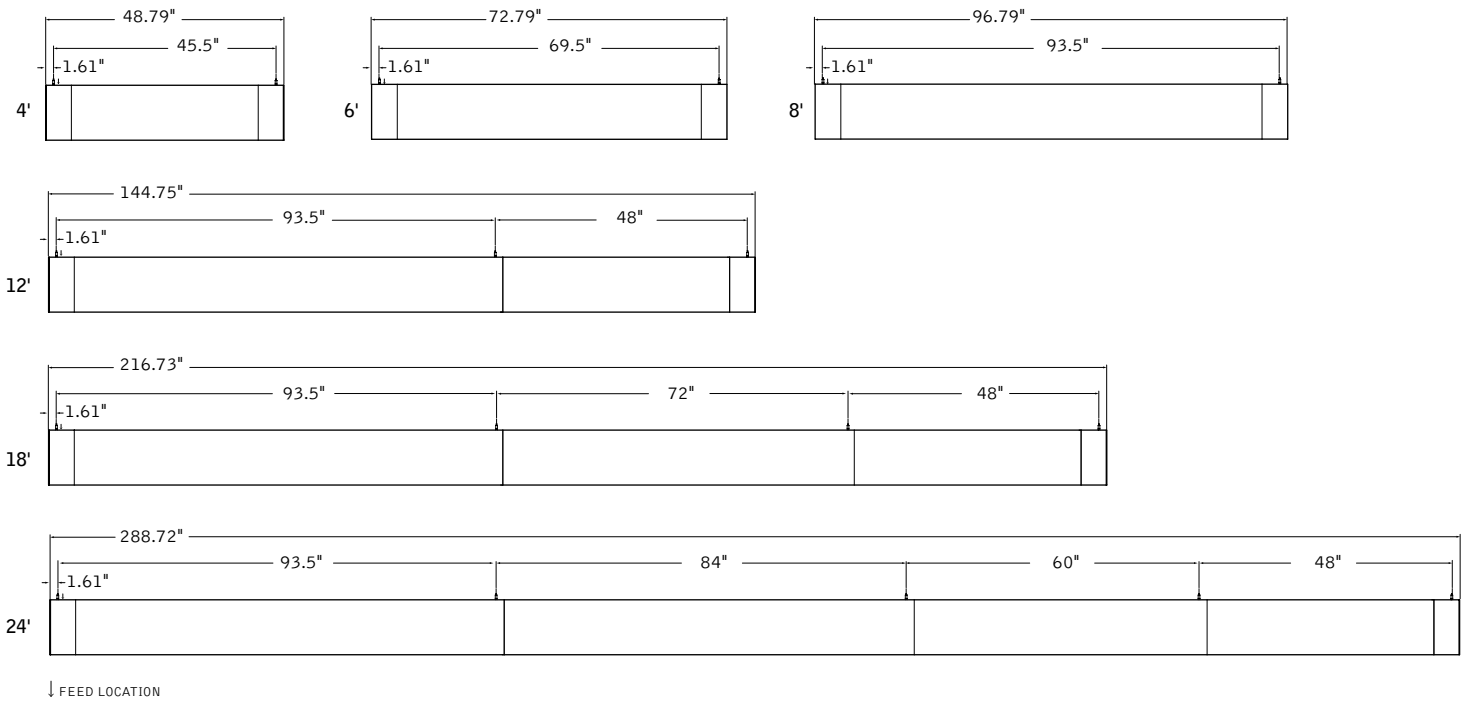
- Room Area: 60ft x 60ft
- Calculation Area: 52ft x 52ft
- Ceiling Height: 11ft
- Luminaire Height: 9ft AFF
- Luminaire Spacing: 10ft OCS
- Workplane Height: 2.5ft AFF
- Reflectances: 80/50/20
- Light Loss Factor: 0.9

Luminaire Details

- Shielding: Batwing Indirect
Fully Louvered, Wide Flood, Direct
- Lumens per foot: 250 Indirect
250 Direct
- Louver finish: Matte Black

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

MOUNTING DETAILS



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 + 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 + 7 + 5	8