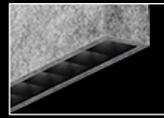
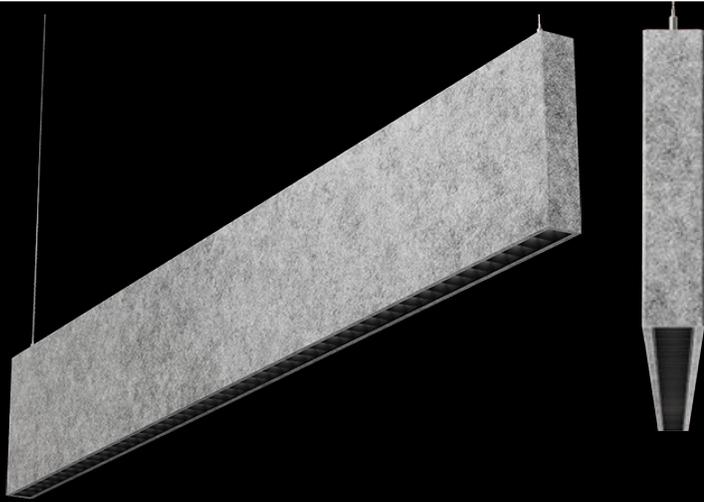


# Seem® 1 Acoustic Louver

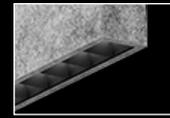
LED DIRECT



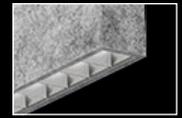
FOCAL POINT®



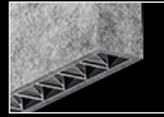
Black Specular Louver



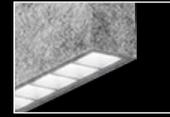
Black Matte Louver



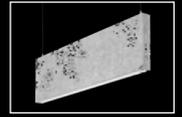
Clear Diffuse Louver



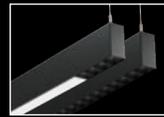
Clear Specular Louver



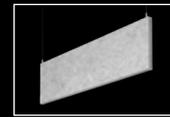
Matte White Louver



Seem 1 Acoustic companion



Seem 1 Louver

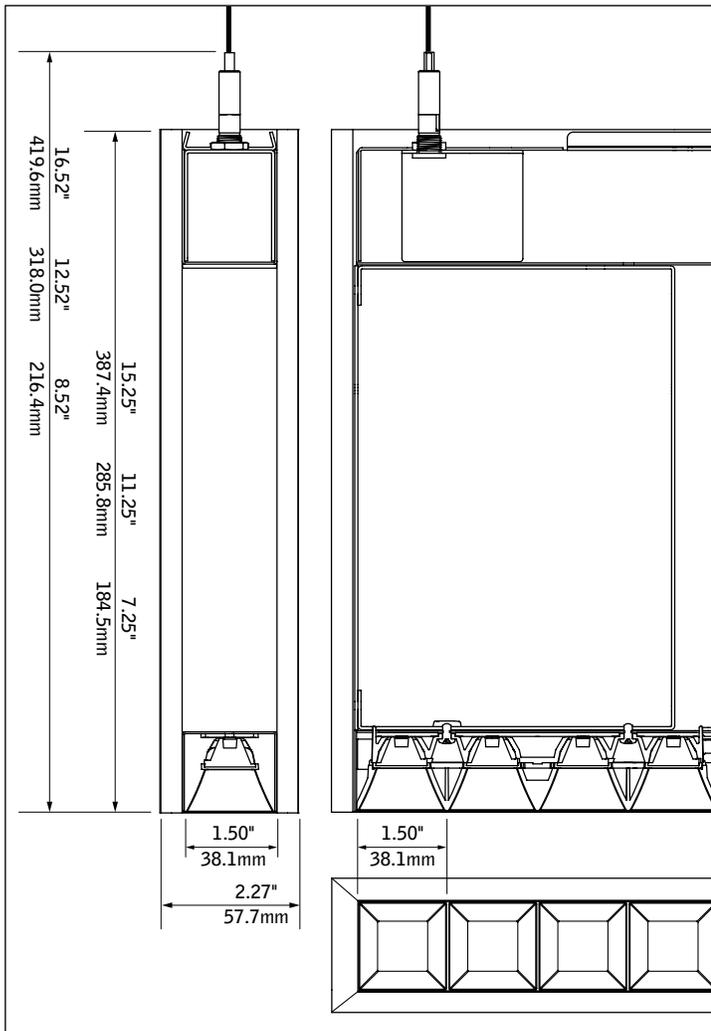


AirCore Blade companion



TruBlade companion

## 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.

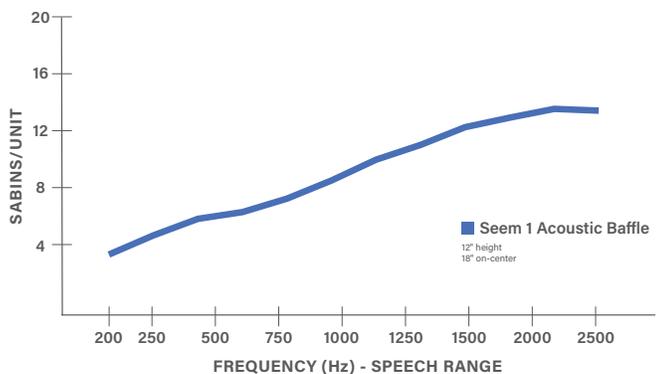
Deeply regressed louver cells provide 60° cut-off from light source to promote visual comfort.

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.

## ACOUSTIC PERFORMANCE

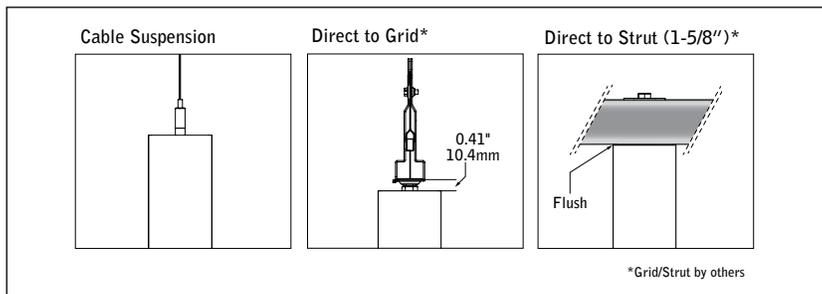


All products were tested in multiple configured arrays. Total absorption will vary based on configuration. Please refer to ASTM C423 reports for more information.

fixture:

project:

**MOUNTING DETAILS**



**SPECIFICATIONS**

**Acoustic Material**

<b>Content</b>	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.
<b>Cleaning and Care</b>	Remove dust and debris with a clean, soft, lint-free cloth or vacuum
<b>PET Thickness</b>	9mm
<b>Surface Burning Characteristics</b>	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.

<b>Sabins</b>	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.

**Optic**

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

**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 (suspended mounting only)**

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**

ETL listed in accordance with UL standards. 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**

<b>Luminaire Series</b>	<b>ASM1CS</b>	<b>ASM1CS</b>
Seem 1 Acoustic Louver	ASM1CS	
<b>Shielding</b>		<b>LC</b>
Louder	LC	
<b>Louder Configuration</b>		<b>LF</b>
Fully Louvered	LF	
<b>Luminaire Height</b> <small>(heights are nominal)</small>		
8"	8	
12"	12	
16"	16	
<b>Lumen Output</b>		
250 Lumens per foot	250DL	
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	
<b>Color Temperature</b>		
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	
<b>Circuit</b>		<b>1C</b>
Single Circuit	1C	
<b>Voltage</b>		<b>UNV</b>
120/277 UNV Volt	UNV	
<b>Control System &amp; Dimming Level</b>		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
DALI 1% Dimming	D11	
<b>Mounting</b>		
<b>Suspended</b>		
<small>(Mounting hang kits ship with order. Power cable is 18" longer than suspension length. Consult factory for longer power cable lengths.)</small>		
24" Cable Suspension	J24__	
48" Cable Suspension	J48__	
96" Cable Suspension	J96__	
120" Cable Suspension	J120__	
<small>(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.)</small>		
<small>(Consult factory for sloped ceiling applications)</small>		
<b>Surface Mounted</b>		
<small>(30" power cable standard. Consult factory for longer power cable lengths.)</small>		
Direct/Flush to Grid	DTG	
Direct/Flush to Strut	DTS	
<b>Distribution</b>		
Narrow Flood	NFL	
Flood 1	FL1	
Flood 2	FL2	
Wide Flood	WFL	
Louvered Mixing Chamber	LMC	
<b>Factory Options</b>		
Black Cord	BKCD	
Emergency Circuit	_EC	
Emergency Battery Pack <small>(5 min. length)</small>	_EM	
<b>Louder Finish</b>		
Matte Black	BK	
Black Specular	BS	
Clear Diffuse	CD	
Clear Specular	CS	
Matte White	WH	
<b>Acoustic Panel Color</b>		
See page 3 for color offering		
<b>Luminaire Length</b>		<b>ft in</b>
<small>(Luminaires are 3/4" longer than specified and cannot be cut to length or joined in the field.)</small>		
Specify length in 6" increments	_ft _in	
from 4' to 208'		
<small>(16' maximum for DTG, consult factory for alternate lengths.)</small>		

# Acoustic Material Colors



## STANDARD COLORS



## PREMIUM COLORS\*



\*Contact factory for lead time and pricing.

## Declare.

**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-ethanediybis-;  
Stearic Acid; Antioxidant 1076;  
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-;  
octadecyl ester; Antioxidant KY-40S; Benzoxamine, 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:**

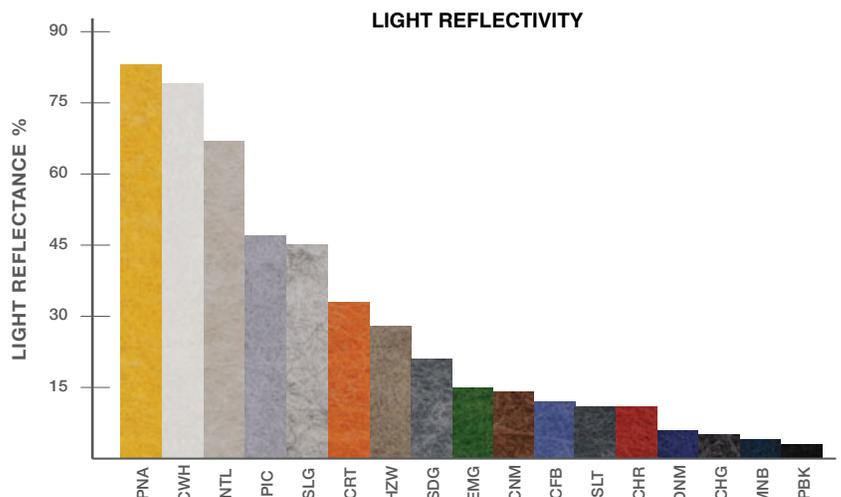
- LBC Red List Free      % Disclosed: 100% at 100ppm
- LBC Red List Approved    VOC Content: Not Applicable
- Declared

**I-10 Interior Performance:** CDPH Standard Method v1.1-2010

**I-14 Responsible Sourcing:** Not Applicable

FPL-0001  
EXP 01 MAR 2024  
Original Issue Date: 2020

MADE WITH RESPONSIBLE FIBER FOR LABEL ACCURACY  
INTERNATIONAL LIVING FUTURE INSTITUTE™ [living-future.org/declare](http://living-future.org/declare)

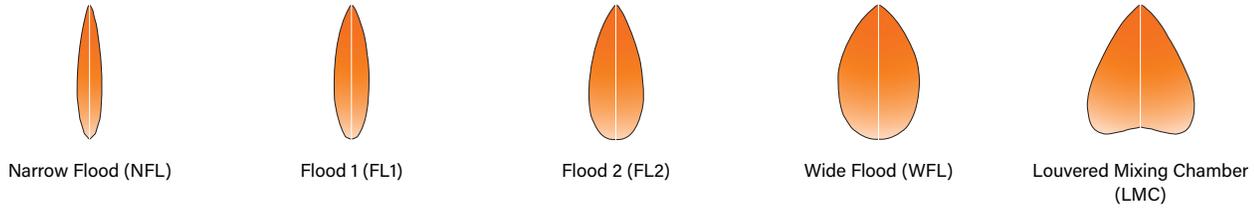


### 4' PERFORMANCE CHART

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



### 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

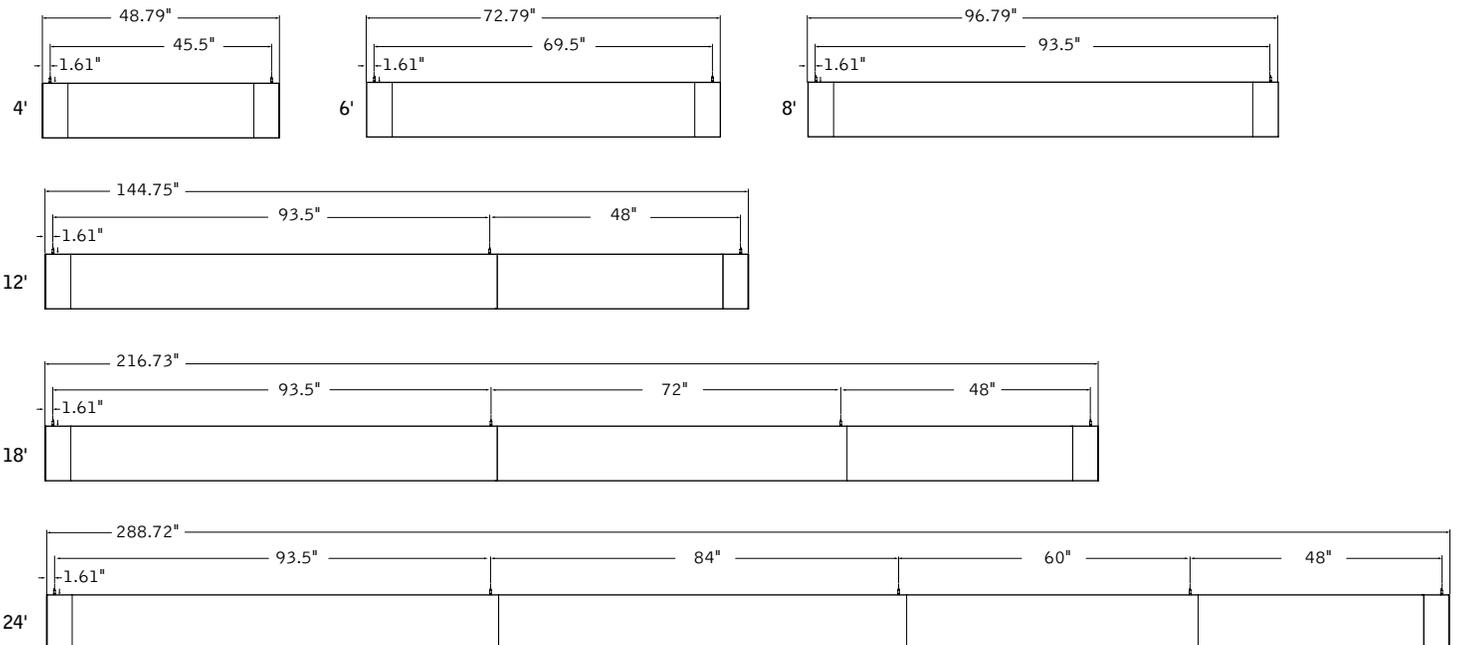
Color	Multiplier
Matte Black [BK]	1.00
Black Specular [BS]	1.00
Clear Diffuse [CD]	1.07
Clear Specular [CS]	1.10
Matte White [WH]	1.11

#### How To Use Lumen Multipliers

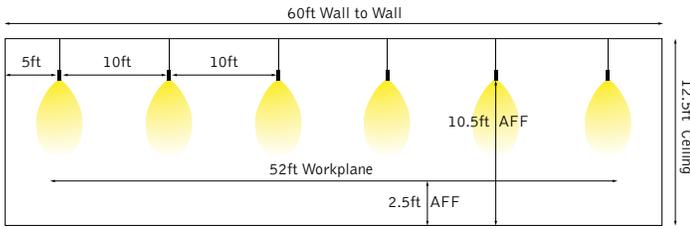
**Formula:** (Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Finish)

**Louwer Example:** ASM1CS-1000DL-930K-NFL-BS  
 $(1000) \times (0.83) \times (1.34) \times (1.00) \approx 1112.2$  lm (estimated delivered lumens)

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



**SEEM 1 ACOUSTIC LOUVER APPLICATION EXAMPLE**



**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.

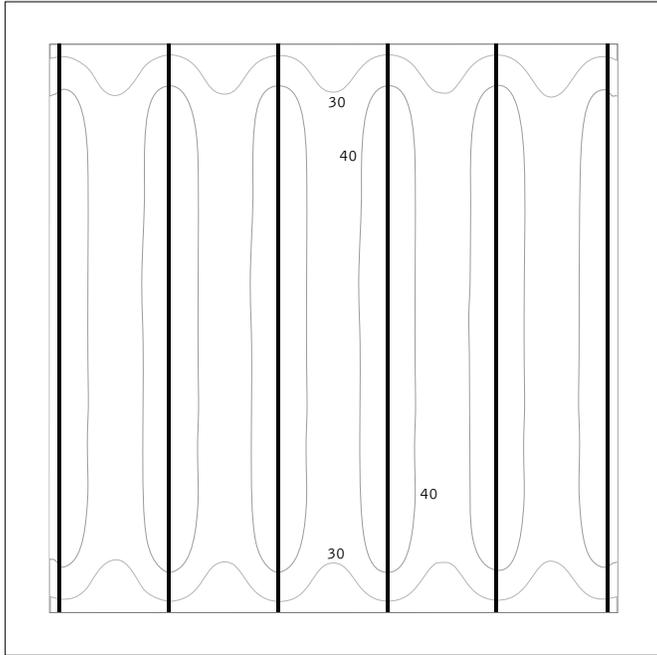
**Calculation Details**

- Room Area: 60ft x 60ft
- Calculation Area: 52ft x 52ft
- Ceiling Height: 12.5ft
- Luminaire Height: 10.5ft AFF
- Luminaire 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

Workplane Illuminance



Installation		Workplane					
Ceiling Height	AFF	On-center Spacing	Lumens/ft	Louver Distribution	LPD (Watts/ft²)	Average Footcandles	Uniformity (avg. to min.)
11ft	9ft	8ft	250LF	WFL	0.34	33.1	2.00
				LMC		32.0	1.95
12.5ft	10.5ft			WFL		31.7	2.03
				LMC		32.0	1.95
12.5ft	10.5ft	10ft	375LF	<b>WFL</b>	<b>0.38</b>	<b>38.1</b>	<b>1.98</b>
				LMC		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 + 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

Standard run configurations, consult factory for custom configurations and longer run lengths.