AirCore Bridge™

INTEGRATED ACOUSTIC CEILING AND LIGHTING SYSTEM

FOCAL POINT®

CANTILEVER WAVE
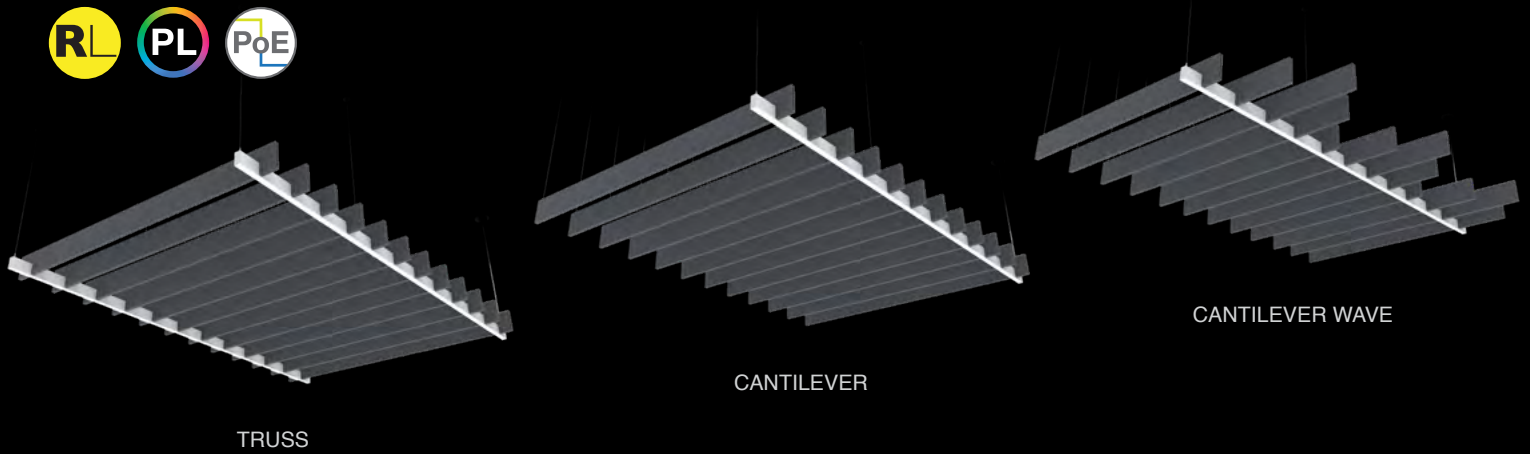
CANTILEVER

TRUSS

COMPONENT DIMENSIONAL DETAILS

AirCore Blade

Seem 1 Luminaire

16.52" 419.6mm

12.52" 318.0mm

8.52" 216.4mm

15.25" 387.4mm

11.25" 285.8mm

7.25" 184.5mm

1.08" 27.4mm

3.50" 88.9mm

1.67" 42.4mm

Batwing Lens
Flush Lens

4.00" 101.6mm

3.50" 88.9mm

1.67" 42.4mm

0.5" Pop-Down Lens
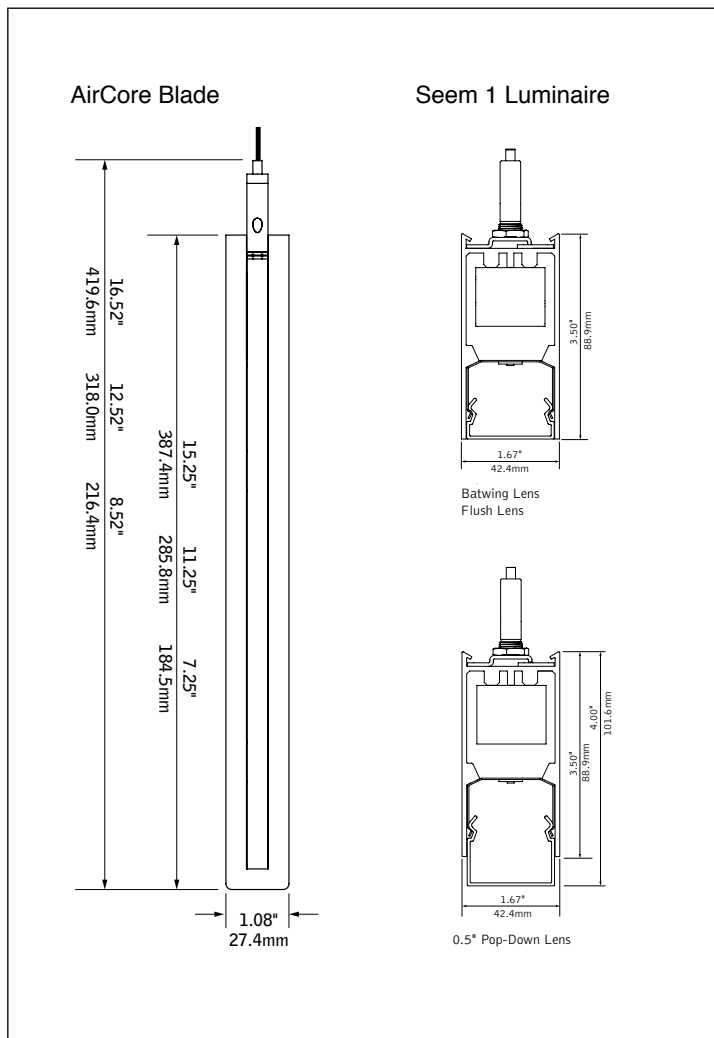
SYSTEM FEATURES

Integrated acoustical blade and lighting system leveraging AirCore Blade and Seem 1 Suspended.

Three standard configurations: Truss, Cantilever, Cantilever Wave.

Can be specified as a new array or used to retrofit existing Seem 1 Direct installations.

AIRCORE BLADE FEATURES

Slim, 1" wide, sound absorbing unlit acoustic blade.

Available in 5' to 8' lengths in 1' increments with 8", 12" or 16" nominal housing heights.

AirCore: patent pending, eco-friendly technology that maximizes sound absorption and reduces ecological impact.

Wide range of color options provides design flexibility and personalization for any project.

SEEM® 1 LUMINAIRE FEATURES

Narrow extruded aluminum 1.5" linear direct LED with flush, Batwing and Pop-Down lens options.

Individual units and continuous runs in 1" increments.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

Choice of output levels to meet a wide variety of application needs.

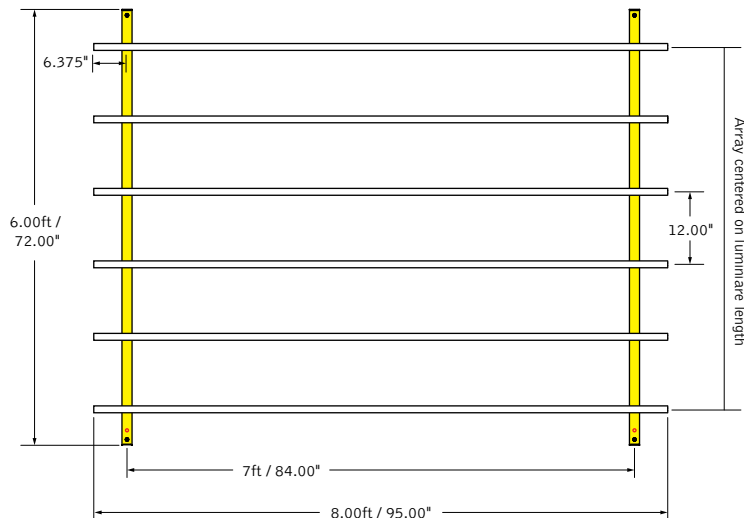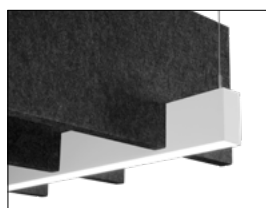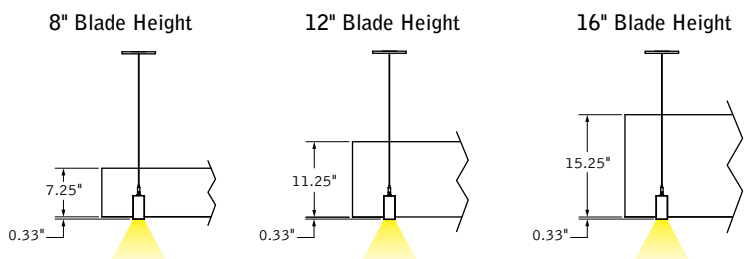Preferred Light: Lighting for better color rendition and human preference.

TRUSS

EXAMPLE:
8ft blade length, 12" on-center blade spacing, 6ft luminaire length
*nominal dimensions

6.375"

6.00ft / 72.00"

12.00"

Array centered on luminaire length

7ft / 84.00"

8.00ft / 95.00"

- ▯ Seem 1 Luminaire
- ○ Feed location
- ● Luminaire suspension point

DETAILS

8" Blade Height

7.25"

0.33"

12" Blade Height
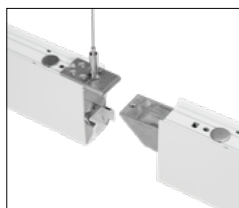
11.25"

0.33"

16" Blade Height

15.25"

0.33"

Blade and luminaire intersection

Blade mounting bracket

Seem 1 joining

CALCULATOR

Use this tool to calculate the number of blades required for each AirCore Bridge array.

Enter the luminaire length and blade on-center spacing to obtain the number of blades per array.

Luminaire length (in)

Blade spacing (in)

Total blades per array

ACOUSTIC ORDERING

Series		**AUABG**
AirCore Bridge	AUABG	
Luminaires Series		**SM1**
Seem 1	FSM1S	
Style		**TRS**
Truss		
Acoustic Panel Color		_____
See page 6 for color offering		
Blade Height		_____
(heights are nominal)		
8"	8	
12"	12	
16"	16	
Blade Length		_____
(Blades are nominal in length. Blades cannot be cut to length or joined together in thr field.)		
5' blade (4' on-center luminaire spacing)	5	
6' blade (5' on-center luminaire spacing)	6	
7' blade (6' on-center luminaire spacing)	7	
8' blade (7' on-center luminaire spacing)	8	
Blade Spacing		_____
(Consult factory for custom spacing)		
12" on center	12OC	
18" on center	18OC	
24" on center	24OC	
Luminaire Length		**ft in**
Specify luminaire length		
in 1" increments (6' minimum length.)	_ft _in	

LUMINAIRE ORDERING
(2 luminaires required for each Truss system)

Luminaire Series		**FSM1S**
Seem 1 LED	FSM1S	
Shielding		_____
Batwing Lens	BW	
Flush Lens	FL	
Pop-Down Lens	PD05	
Lumen Output		_____
125 Lumens per foot	125LF	
(Consult factory for Lutron, DALI)		
250 Lumens per foot	250LF	
375 Lumens per foot	375LF	
500 Lumens per foot	500LF	
625 Lumens per foot	625LF	
Color Temperature		_____
3000K, 80CRI **or** 90 CRI	30K **or** 930K	
3500K, 80CRI **or** 90 CRI	35K **or** 935K	
4000K, 80CRI **or** 90 CRI	40K **or** 940K	
3500K, Preferred Light	P35K	
Circuit		**1C**
Single Circuit	1C	
Voltage		_____
120/277 UNV Volt	UNV	
347 Volt (LD1 driver only)	347	
Low Voltage	LV	
Control System & Dimming Level		_____
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible	LVN	
(No driver. Not available with EM or EC. LV Voltage only.)		
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming	LU5	
DALI 1% Dimming	D11	
Mounting		_____
24" Cable Suspension	J24__	
48" Cable Suspension	J48__	
96" Cable Suspension	J96__	
(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.)		
(Specify CS - for sloped ceiling applications)		
Factory Options		**ABG**
AirCore Bridge component	ABG	
Black Cord	BKCD	_____
Emergency Circuit	_EC	_____
Emergency Battery Pack	_EM	_____
(See EM/EC Guide for default locations and ordering.)		
Finish		_____
Black	BK	
Titanium Silver	TS	
Matte White	WH	
Luminaire Length		**ft in**
Specify luminaire length		
in 1" increments (6' minimum length.)	_ft _in	

CANTILEVER

EXAMPLE:
8ft blade length, 12" on-center blade spacing, 6ft luminaire length
*nominal dimensions

6.375"

6.00ft / 72.00"

12.00"

Array centered on luminaire length

8.00ft / 95.00"

- ▢ Seem 1 Luminaire
- ○ Feed location
- ● Luminaire suspension point
- · Blade suspension point

DETAILS

8" Blade Height
7.25"
0.33"

12" Blade Height
11.25"
0.33"

16" Blade Height
15.25"
0.33"

Blade and luminaire intersection

Blade mounting bracket

Seem 1 joining

CALCULATOR

Use this tool to calculate the number of blades required for each AirCore Bridge array.

Enter the luminaire length and blade on-center spacing to obtain the number of blades per array.

Luminaire length (in)

Blade spacing (in)

Total blades per array

ACOUSTIC ORDERING

Series		**AUABG**
AirCore Bridge	AUABG	
Luminaires Series		**SM1**
Seem 1	SM1	
Style		**CT**
Cantilever		
Acoustic Panel Color		_____
See page 6 for color offering		
Blade Height		_____
(heights are nominal)		
8"	8	
12"	12	
16"	16	
Blade Length		_____
(Blades are nominal in length. Blades cannot be cut to length or joined together in field.)		
5' blade	5	
6' blade	6	
7' blade	7	
8' blade	8	
Blade Spacing		_____
(Consult factory for custom spacing)		
12" on center	12OC	
18" on center	18OC	
24" on center	24OC	
Mounting		_____
24" Cable Suspension	J24__	
48" Cable Suspension	J48__	
96" Cable Suspension	J96__	
(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.) (Specify CS - for sloped ceiling applications)		
Luminaire Length		**ft in**
Specify luminaire length		
in 1" increments (6' minimum length.)	_ft _in	

LUMINAIRE ORDERING
(1 luminaire required for each Cantilever system)

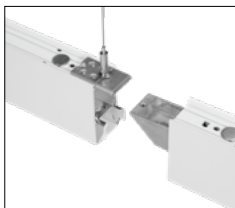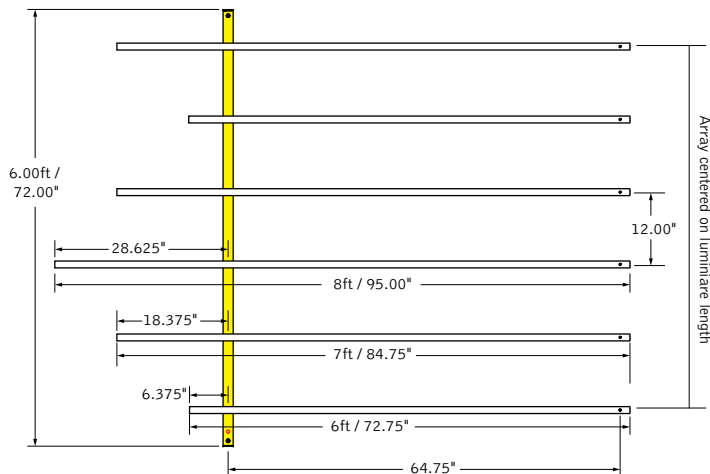|		
Luminaire Series		**FSM1S**
Seem 1 LED	FSM1S	
Shielding		_____
Batwing Lens	BW	
Flush Lens	FL	
Pop-Down Lens	PD05	
Lumen Output		_____
125 Lumens per foot	125LF	
(Consult factory for Lutron, DALI)		
250 Lumens per foot	250LF	
375 Lumens per foot	375LF	
500 Lumens per foot	500LF	
625 Lumens per foot	625LF	
Color Temperature		_____
3000K, 80CRI **or** 90 CRI	30K **or** 930K	
3500K, 80CRI **or** 90 CRI	35K **or** 935K	
4000K, 80CRI **or** 90 CRI	40K **or** 940K	
3500K, Preferred Light	P35K	
Circuit		**1C**
Single Circuit	1C	
Voltage		_____
120/277 UNV Volt	UNV	
347 Volt (LD1 driver only)	347	
Low Voltage	LV	
Control System & Dimming Level		_____
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible	LVN	
(No driver. Not available with EM or EC. LV Voltage only.)		
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming	LU5	
DALI 1% Dimming	D11	
Mounting		_____
24" Cable Suspension	J24__	
48" Cable Suspension	J48__	
96" Cable Suspension	J96__	
(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.) (Specify CS - for sloped ceiling applications)		
Factory Options		_____
AirCore Bridge component	ABG	**ABG**
Black Cord	BKCD	_____
Emergency Circuit	_EC	_____
Emergency Battery Pack	_EM	_____
(See EM/EC Guide for default locations and ordering.)		
Finish		_____
Black	BK	
Titanium Silver	TS	
Matte White	WH	
Luminaire Length		**ft in**
Specify luminaire length		
in 1" increments (6' minimum length.)	_ft _in	

CANTILEVER WAVE

EXAMPLE:
8ft blade length, 12" on-center blade spacing, 6ft luminaire length
*nominal dimensions

Array centered on luminaire length

6.00ft /
72.00"

12.00"

28.625"

8ft / 95.00"

18.375"

7ft / 84.75"

6.375"

6ft / 72.75"

64.75"

- ☐ Seem 1 Luminaire
- ○ Feed location
- ● Luminaire suspension point
- · Blade suspension point

DETAILS

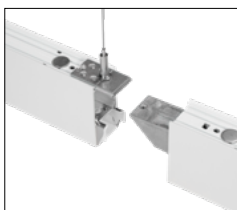| 8" Blade Height	12" Blade Height	16" Blade Height
7.25"	11.25"	15.25"
0.33"	0.33"	0.33"
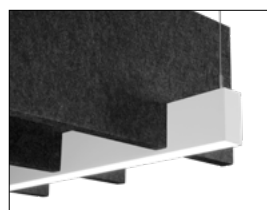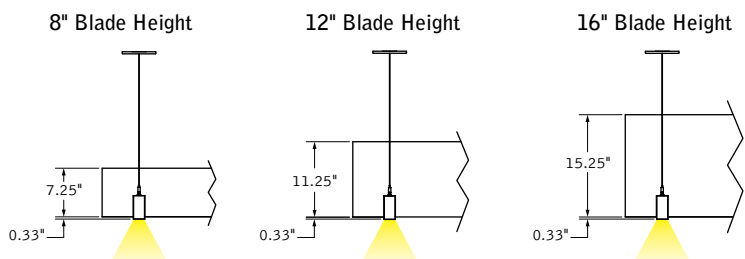
Blade and luminaire intersection   Blade mounting bracket   Seem 1 joining

CALCULATOR

Use this tool to calculate the number of blades required for each AirCore Bridge array.

Enter the luminaire length to obtain the number of blades per array.
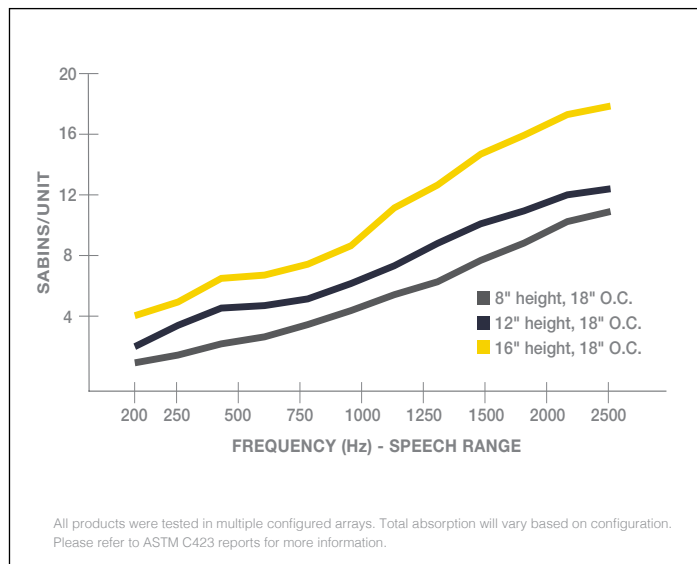
Luminaire length (in)

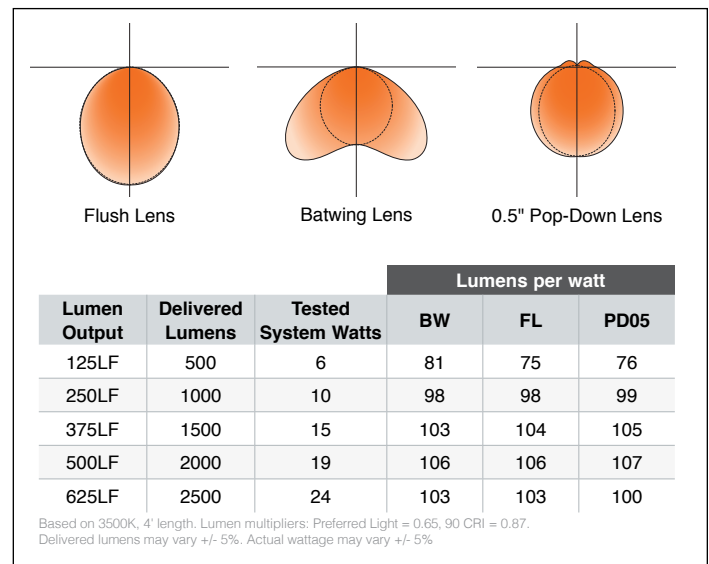Blade spacing (in)

Total blades per array

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ACOUSTIC ORDERING

Series		**AUABG**
AirCore Bridge	AUABG	
Luminaire Series		**SM1**
Seem 1	SM1	
Style		**CTW**
Cantilever Wave		
Acoustic Panel Color		_____
See page 6 for color offering		
Blade Height		_____
(heights are nominal)		
8"	8	
12"	12	
16"	16	
Blade Pattern		**6P**
(Blades are nominal in length. Blades cannot be cut to length or joined together in field.)		
6' blade start (6, 7, 8, 7, 6 pattern)	6P	
Blade Spacing		**12OC**
(Consult factory for custom spacing)		
12" on center	12OC	
Mounting		_____
24" Cable Suspension	J24__	
48" Cable Suspension	J48__	
96" Cable Suspension	J96__	
(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.)		
(Specify CS - for sloped ceiling applications)		
Luminaire Length		**ft in**
Specify luminaire length		
in 1" increments (6' minimum length.)	_ft _in	

LUMINAIRE ORDERING
(1 luminaire required for each Cantilever Wave system)

Luminaire Series		**FSM1S**
Seem 1 LED	FSM1S	
Shielding		_____
Batwing Lens	BW	
Flush Lens	FL	
Pop-Down Lens	PD05	
Lumen Output		_____
125 Lumens per foot	125LF	
(Consult factory for Lutron, DALI)		
250 Lumens per foot	250LF	
375 Lumens per foot	375LF	
500 Lumens per foot	500LF	
625 Lumens per foot	625LF	
Color Temperature		_____
3000K, 80CRI **or** 90 CRI	30K **or** 930K	
3500K, 80CRI **or** 90 CRI	35K **or** 935K	
4000K, 80CRI **or** 90 CRI	40K **or** 940K	
3500K, Preferred Light	P35K	
Circuit		**1C**
Single Circuit	1C	
Voltage		_____
120/277 UNV Volt	UNV	
347 Volt (LD1 driver only)	347	
Low Voltage	LV	
Control System & Dimming Level		_____
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible	LVN	
(No driver. Not available with EM or EC. LV Voltage only.)		
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming	LU5	
DALI 1% Dimming	D11	
Mounting		_____
24" Cable Suspension	J24__	
48" Cable Suspension	J48__	
96" Cable Suspension	J96__	
(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: J24WH.)		
(Specify CS - for sloped ceiling applications)		
Factory Options		_____
AirCore Bridge component	ABG	**ABG**
Black Cord	BKCD	_____
Emergency Circuit	_EC	_____
Emergency Battery Pack	_EM	_____
(See EM/EC Guide for default locations and ordering.)		
Finish		_____
Black	BK	
Titanium Silver	TS	
Matte White	WH	
Luminaire Length		**ft in**
Specify luminaire length		
in 1" increments (6' minimum length.)	_ft _in	

ACOUSTIC PERFORMANCE

Y-axis: SABINS/UNIT (20, 16, 12, 8, 4)
X-axis: FREQUENCY (Hz) - SPEECH RANGE (200, 250, 500, 750, 1000, 1250, 1500, 2000, 2500)

Legend:
- 8" height, 18" O.C.
- 12" height, 18" O.C.
- 16" height, 18" O.C.

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

LUMINAIRE DISTRIBUTIONS & PERFORMANCE

Flush Lens   Batwing Lens   0.5" Pop-Down Lens

Lumen Output	Delivered Lumens	Tested System Watts	Lumens per watt		
			BW	FL	PD05
125LF	500	6	81	75	76
250LF	1000	10	98	98	99
375LF	1500	15	103	104	105
500LF	2000	19	106	106	107
625LF	2500	24	103	103	100

Based on 3500K, 4' length. Lumen multipliers: Preferred Light = 0.65, 90 CRI = 0.87.
Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%

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 www.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 = 6.78 Sabins 18" OC = 7.35 Sabins 24" OC = 7.61 Sabins
NRC	Noise Reduction Coefficient (NRC) is the average of how absorptive a material is at various frequencies within the human speech frequency range. Two materials with the same rating may not perform the same in application. Typically, an NRC of 0 indicates perfect reflection, and an NRC of 1 is designated as perfect absorption. However, based on the testing methodology and depending upon the material's shape or surface area products can test at an NRC greater than 1. NRC = 0.90

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 3000K, 3500K or 4000K with both 80 and 90 CRI options. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below. Color accuracy <3 SDCM.

Luminaire 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 .07" 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. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

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.

Weight

AirCore Blade: 12" height, 6' length = 8.63lbs. 12" height, 8' length = 11.5lbs. Seem 1 luminaire: 8' unit = 15lbs.

Finish

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

Lumen Maintenance

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

Acoustic Material Colors

FOCAL POINT®

STANDARD COLORS

PURE BLACK	**PBK**	CHARCOAL GRAY	**CHG**
SLATE	**SLT**	SHADOW GRAY	**SDG**
SILVER GRAY	**SLG**	PEARL ICE	**PIC**
CLASSIC WHITE	**CWH**	NATURAL LINEN	**NTL**
HAZELWOOD	**HZW**	THATCH BROWN	**TBR**

PREMIUM COLORS*

CORNFLOWER BLUE	**CFB**	DENIM BLUE	**DNB**
MIDNIGHT BLUE	**MNB**	DEEP PURPLE	**DPP**
CHERRY RED	**CHR**	CARROT	**CRT**
PINEAPPLE	**PNA**	LIME GREEN	**LMG**
EMERALD GREEN	**EMG**	CINNAMON	**CNM**

EXTENDED COLORS*

BLUE SKY	**BSK**	OCEAN BLUE	**OCB**
BERRY	**BRY**	GRAPE	**GRP**
TUSCAN SUN	**TNS**	PEAR	**PRG**
SAND DUNE	**SDD**	GINGER	**GNG**
BARK	**BKB**	BRICK RED	**BRD**
		ASH GRAY	**AGR**

*Contact factory for lead time and pricing.

Declare.

9mm PET Felt
Focal Point, LLC

Final Assembly: Chicago, IL, USA
Life Expectancy: 30 Years
End of Life Options: Salvageable/Reusable in its Entirety, Recyclable (100%)

Ingredients:
Polyethylene Terephthalate, Octadecanamide, N,N'-1,2-ethanediylbis-, Stearic Acid, Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester, Benzenamine, 4-(1-methyl-1-phenylethyl) -N-[4-(1-methyl-1-phenylethyl)phenyl]-, Titanium Dioxide

Living Building Challenge Criteria:

FPL-0001
VOC Content: N/A
Declaration Status

EXP. 01 FEB 2021
VOC Emissions: CDPH Compliant
☑ LBC Red List Free
☐ LBC Compliant
☐ Declared

LIGHT REFLECTIVITY
Standard and Premium colors

Y-axis: LIGHT REFLECTANCE % (0, 15, 30, 45, 60, 75, 90)

X-axis categories: PNA, CWH, NTL, PIC, SLG, LMG, CRT, HZW, SDG, TBR, EMG, CNM, CFB, SLT, CHR, DPP, DNM, CHG, MNB, PBK