

DATE	PROJECT	FIRM	FIXTURE TYPE
------	---------	------	--------------



## OBFORMA - DIFFUSE

Obforma is a casual and soft-structured acoustic luminaire.

- Demonstrates an elegant pairing of form, acoustical, and lighting performance
- Sabin's signature sewn constructions enables a robust and simple design
- Designed to stand alone or in arrays alongside Cylinder and Layer Disc
- 2000LM-14000LM output
- 18 standard PET felt colors with color pairing opportunities
- 24 standard trim colors

## SPECIFICATIONS

SERIES	LENGTH/WIDTH <sup>1</sup>	HEIGHT <sup>2</sup>	CCT/CRI	CIRCUIT	DIRECT OUTPUT <sup>3</sup>	SHIELDING	CONTROL
OBF-DF	<b>S</b> 31" X 16" (800MM X 400MM)	19" (475MM)	927	<b>SC</b> SINGLE CIRCUIT	<b>SLP</b> S, 2000LM	<b>DFO</b> FROSTED LENS	<b>10</b> 0-10V TO 1%
	<b>M</b> 47" X 24" (1200MM X 600MM)	24" (600MM)	930		<b>SSP</b> S, 3500LM		
	<b>L</b> 63" X 24" (1600MM X 600MM)	33" (850MM)	935		<b>SHP</b> S, 5000LM		
		55" (1350MM)	940		<b>MLP</b> M, 8000LM		
		CH <sup>3</sup>			<b>MSP</b> M, 10000LM		
					<b>MHP</b> M, 12000LM		
					<b>LLP</b> L, 10000LM		
					<b>LSP</b> L, 12000LM		
					<b>LHP</b> L, 14000LM		
EXTERIOR COLOR		INTERIOR COLOR		TRIM COLOR (OPTIONAL PREMIUM FINISH)			
<b>15BR</b> BEETROOT	<b>15OB</b> OBSIDIAN	<b>15BR</b> BEETROOT	<b>15OB</b> OBSIDIAN	<b>NT</b> NO TRIM	<b>FR</b> FROST	<b>SH</b> SHELL	
<b>15BS</b> BISQUE	<b>15PN</b> PINE	<b>15BS</b> BISQUE	<b>15PN</b> PINE	<b>AZ</b> AZURE	<b>HI</b> HIBISCUS	<b>SK</b> SKY	
<b>15CN</b> CANARY	<b>15PM</b> PUMICE	<b>15CN</b> CANARY	<b>15PM</b> PUMICE	<b>BF</b> BLUFF	<b>IN</b> INDIGO	<b>SL</b> SLATE	
<b>15FL</b> FLINT	<b>15QY</b> QUARRY	<b>15FL</b> FLINT	<b>15QY</b> QUARRY	<b>CY</b> CLAY	<b>IR</b> IRIS	<b>SP</b> SPRUCE	
<b>15GF</b> GULF	<b>15SP</b> SAPPHIRE	<b>15GF</b> GULF	<b>15SP</b> SAPPHIRE	<b>CT</b> CITRUS	<b>LM</b> LIME	<b>ST</b> STONE	
<b>15HZ</b> HAZEL	<b>15SD</b> SAND	<b>15HZ</b> HAZEL	<b>15SD</b> SAND	<b>CU</b> CURRANT	<b>OL</b> OLIVE	<b>TM</b> TIMBER	
<b>15JD</b> JADE	<b>15SF</b> SAFFRON	<b>15JD</b> JADE	<b>15SF</b> SAFFRON	<b>DU</b> DUNE	<b>OX</b> ONYX	<b>WH</b> WHITE	
<b>15MY</b> MERCURY	<b>15SA</b> SIENNA	<b>15MY</b> MERCURY	<b>15SA</b> SIENNA	<b>EM</b> EMERALD	<b>PO</b> POPPY		
<b>15MS</b> MOSS	<b>15WS</b> WISTERIA	<b>15MS</b> MOSS	<b>15WS</b> WISTERIA	<b>FE</b> FERN	<b>SG</b> SAGE		
CORD COLOR <sup>4</sup>	MOUNTING	CANOPY <sup>6</sup>		FACTORY OPTIONS <sup>7</sup>			
<b>PCBK</b> BLACK	<b>AC</b> 60" AIRCRAFT CABLE + (COLOR CODE) <sup>5</sup>	<b>RWH</b> ROUND WHITE		<b>CSL</b> CUSTOM SUSPENSION LENGTH 24"-120" <sup>8</sup>			
<b>PCBL</b> BLUE	<b>WEB</b> 60" WEBBING + (COLOR CODE) <sup>5</sup>	<b>RBK</b> ROUND BLACK		<b>EM</b> EMERGENCY BATTERY			
<b>PCBR</b> BRONZE	<b>TRD</b> 3/8" THREADED ROD	<b>SWH</b> SQUARE WHITE		<b>CT</b> CUSTOM THREAD <sup>9</sup>			
<b>PCGR</b> GREEN	<b>DTS</b> DIRECT TO STRUT	<b>SBK</b> SQUARE BLACK		<b>2CP</b> INCLUDE 2" CANOPIES			
<b>PCRD</b> RED	<b>DTG</b> DIRECT TO GRID						
<b>PCGY</b> GRAY							
<b>PCWH</b> WHITE							

<sup>1</sup> IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.

<sup>2</sup> CUSTOM HEIGHTS AVAILABLE BETWEEN 19"-55" (475-1350MM).

<sup>3</sup> DIRECT OUTPUT SIZE NEEDS TO BE EQUAL TO OR LESS THAN FIXTURE SIZE.

<sup>4</sup> POWER CABLE IS 18" LONGER THAN SUSPENSION LENGTH. CONSULT FACTORY FOR LONGER LENGTHS.

<sup>5</sup> REPLACE "\_\_\_" WITH DESIRED COLOR CODE. SEE PAGE 2 FOR COLOR OPTIONS AND CODES.

<sup>6</sup> 5" (127MM) CANOPY PROVIDED FOR FEED. 2" (50.8MM) CANOPIES FOR NON-FEED PROVIDED UPON REQUEST.

<sup>7</sup> LEAVE BLANK IF NOT APPLICABLE. STRING TOGETHER MULTIPLE SELECTIONS.

<sup>8</sup> REPLACE "\_\_\_" WITH LENGTH OF DESIRED SUSPENSION.

<sup>9</sup> CONSULT FACTORY FOR CUSTOM THREAD COLOR OPTIONS.

SEE ADDITIONAL OPTIONS FOR SIZE, TRIM FINISH, AND CUSTOMIZATION AT [SABIN.BUILD](#)



EXAMPLE PART NUMBER: OBF-DF-M-55(1350)-927-SC-MHP-DFO-10-15MY-15SP-TM-PCGY-ACBLK-RWH

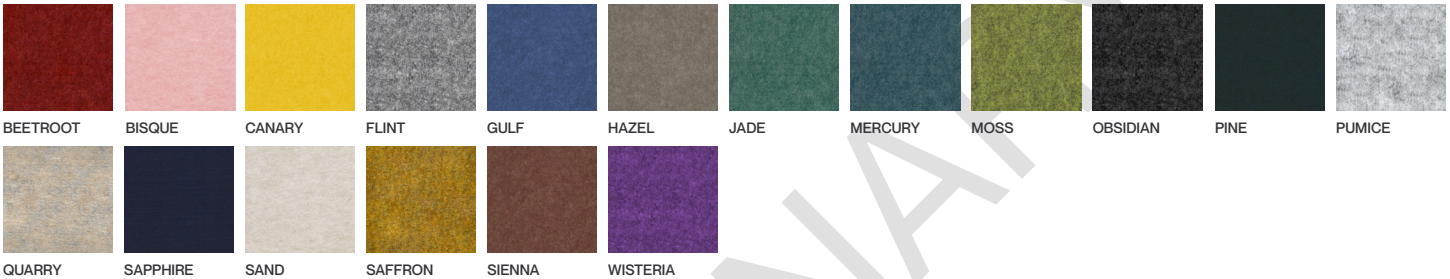
DATE	PROJECT	FIRM	FIXTURE TYPE

## SWATCHES

*Cylinder* utilizes 1.5mm felt and has the option to add trim and customize color for cable, thread, and cord (for lit fixtures.)

Contact the factory for additional color options.

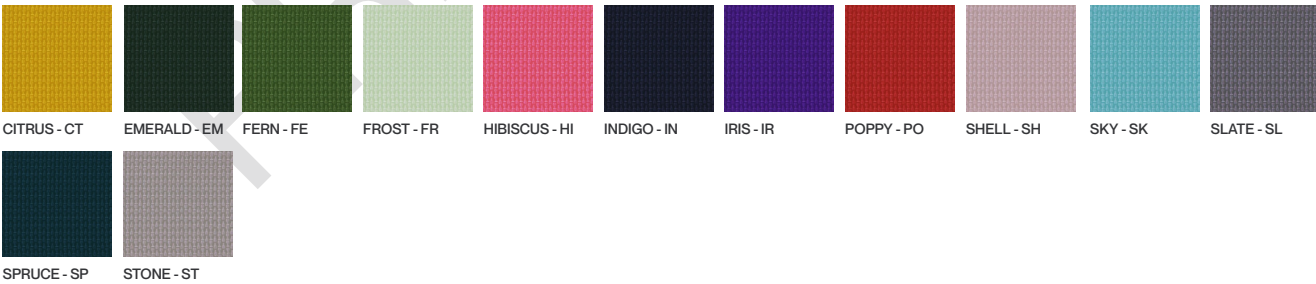
### 1.5MM FELT



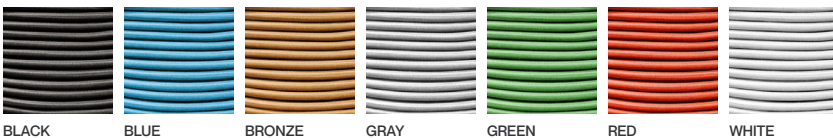
### TRIM (OPTIONAL PREMIUM FINISH)



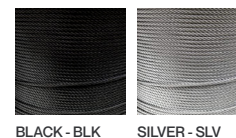
### WEBBING



### CORD



### CABLE



Colors are subject to slight variation from your screen or paper to the finished product.

DATE	PROJECT	FIRM	FIXTURE TYPE
------	---------	------	--------------

## ACOUSTIC PERFORMANCE DATA

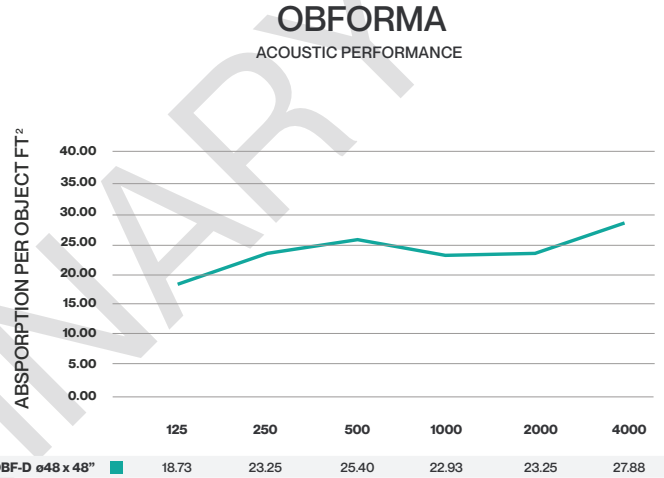
ALL SABIN PRODUCTS ARE SUBJECT TO ACOUSTIC TESTING. PERFORMANCE VALUES WILL VARY BASED ON INSTALLATION FACTORS SUCH AS DENSITY AND MOUNTING HEIGHT.

**SABINS** A SABIN IS A UNIT OF SOUND ABSORPTION DEFINED AS THE AMOUNT OF SOUND ABSORBED BY ONE SQUARE FOOT OF A PERFECT ABSORBER. IT WAS INITIALLY CONCEIVED AS THE EQUIVALENT OF 1 SQUARE FOOT OF OPEN WINDOW, REFLECTING NO SOUND BACK INTO THE INTERIOR. SABINS ARE USED TO EXPRESS THE TOTAL EFFECTIVE ABSORPTION FOR THE INTERIOR OF A ROOM. THIS CHART INDICATES AVERAGE SABINS PER UNIT AT THE NOTED FREQUENCIES WHICH REPRESENT THE TYPICAL RANGE OF HUMAN SPEECH OF 200-2500 HZ.

**NRC** NOISE REDUCTION COEFFICIENT (NRC) IS A SINGLE NUMBER VALUE RANGING FROM 0.0 TO 1.0 THAT DESCRIBES THE AVERAGE SOUND ABSORPTION PERFORMANCE OF A MATERIAL. AN NRC OF 0.0 INDICATES THE OBJECT DOES NOT ABSORB MID-FREQUENCY SOUND ENERGY, BUT REFLECTS IT. AN NRC OF 1.0 INDICATES THAT THE SOUND ABSORPTION PERFORMANCE OF THE MATERIAL IS EQUAL TO ITS SURFACE AREA (MEASURED IN UNITS SABIN), OR CONCEPTUALLY 100% SOUND ABSORPTION.

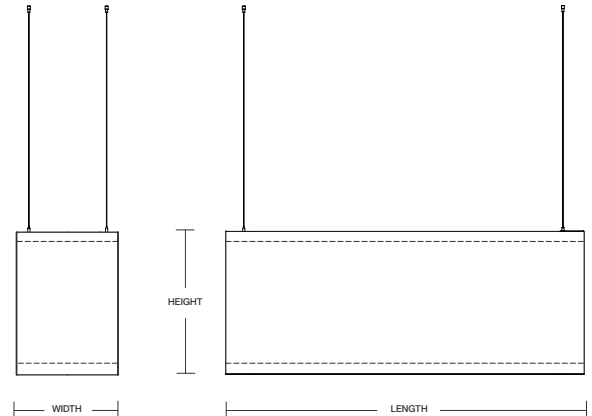
PROJECTED NRC = .95

TOTAL SOUND ABSORPTION WILL VARY BASED ON DESIGNED PRODUCT CONFIGURATION. SABIN TESTS ALL PRODUCTS IN MULTIPLE CONFIGURATIONS. PLEASE CONTACT SABIN OR YOUR LOCAL AGENT FOR MORE INFORMATION.



## DIMENSIONS + WEIGHT

SERIES	LENGTH/WIDTH <sup>1</sup>	HEIGHT <sup>2</sup>
OBF-DF	<b>S</b> 31" X 16" (800MM X 400MM)	19" (475MM)
	<b>M</b> 47" X 24" (1200MM X 600MM)	24" (600MM)
	<b>L</b> 63" X 24" (1600MM X 600MM)	33" (850MM) 55" (1350MM)



<sup>1</sup> IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.  
<sup>2</sup> CUSTOM HEIGHTS AVAILABLE BETWEEN 19"-55" (475-1350MM).

\* ALL STANDARD DIMENSIONS ARE ECO-CONSCIOUS, MAXIMIZING MATERIAL USE AND MINIMIZING WASTE. CUSTOM DIMENSIONS RESULT IN EXCESS MATERIAL WASTE.

See Dimensions and Weight Table for Limitations

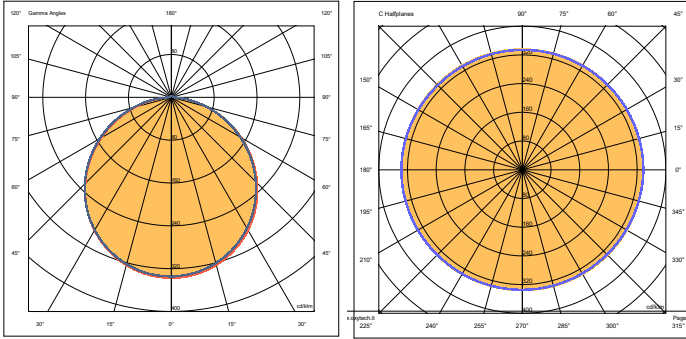
## WEIGHT

PLEASE CONSULT THE FACTORY FOR PRODUCT WEIGHTS BASED ON CONFIGURATION AND PART NUMBERS.

DATE	PROJECT	FIRM	FIXTURE TYPE
------	---------	------	--------------

## PHOTOMETRICS

\*ACTUAL RESULTS PENDING



SIZE 63" X 24" (1600MM X 1200MM) DIFFUSE LENS  
 CCT 3500K  
 LUMENS 12000  
 EFFICACY TBD

### 31" X 16" (800MM X 400MM) DIFFUSE LENS

POWER LEVEL	OUTPUT (LUMENS)	EFFICACY (LPW)	CCT/CRI
LOW	2000	TBD	3500/90
MEDIUM	3500	TBD	3500/90
HIGH	5000	TBD	3500/90

### 47" X 24" (1200MM X 600MM) DIFFUSE LENS

POWER LEVEL	OUTPUT (LUMENS)	EFFICACY (LPW)	CCT/CRI
LOW	8000	TBD	3500/90
MEDIUM	10000	TBD	3500/90
HIGH	12000	TBD	3500/90

### 63" X 24" (1600MM X 1200MM) DIFFUSE LENS

POWER LEVEL	OUTPUT (LUMENS)	EFFICACY (LPW)	CCT/CRI
LOW	10000	TBD	3500/90
MEDIUM	12000	TBD	3500/90
HIGH	14000	TBD	3500/90

### CCT MULTIPLIER

CCT	3000K	3500K	4000K
CRI	90	90	90
MULTIPLIER	0.878	0.9	1.09

DATE	PROJECT	FIRM	FIXTURE TYPE
------	---------	------	--------------

## ACOUSTIC MATERIAL

OUR 1.5MM AND 9MM PET (POLYESTER) FELT PANELS CONTAIN MINIMUM 60% POST-CONSUMER RECYCLED POLYESTER STAPLE FIBER. THE MATERIAL IS MOISTURE RESISTANT, FIRE RATED AND RECYCLABLE. THE POROUS MATERIAL IS AN OUTSTANDING ABSORBER OF ACOUSTIC ENERGY.

- FIRE RETARDANT: ASTM E84 CLASS A, EN13501 CLASS B
- DECORATIVE: 16 STANDARD COLORS
- CONSTRUCTION: 100% POLYESTER FIBER (PET)

## CONSTRUCTION

A HIGHLY ENGINEERED, ROBUST ACOUSTIC LUMINAIRE COMPRISED OF ≥ 60% RECYCLED PET MATERIAL UTILIZING SEWN CONSTRUCTION TO MAXIMIZE STRENGTH, DURABILITY AND SOUND ABSORBENCY.

## LED LIGHT ENGINE

HIGH EFFICIENCY LIGHT MODULE INCORPORATES PREMIUM LEDS WITH HEAT SINK TO MAXIMUM LIFETIME. AVAILABLE IN 2700K, 3000K, 3500K OR 4000K CCT WITH >90 CRI. COLOR ACCURACY = 2.2X SDCM @ 3500K ±65K ΔUV +0.0032

STANDARD DEVIATION COLOR MATCHING (SDCM) BASED ON ANSI STANDARD C78.377A INDICATES THE VISIBLE VARIANCE IN CORRELATED COLOR TEMPERATURE, ALSO REFERRED TO AS "MACADAM ELLIPSE".

## ESTIMATED USEFUL LIFETIME

ESTIMATED USEFUL LIFETIME BASED ON 10,000 HOUR TEST DURATOIN @ 131°F (55°C)

- L90 = 53,000 HRS
- L80 = 60,000 HRS
- L70 = 60,000 HRS

ANSI/IES TM-21 METHOD FOR EVALUATING USEFUL LIFETIME IS LIMITED TO 6X TEST DURATION (10,000 HOURS X 6 = 60,000 HOUR MAX).

## OPTICS

EXTRUDED 3/32" (2MM) ACRYLIC LENS DESIGNED FOR EFFICIENT AND HOMOGENEOUS LIGHT DISTRIBUTION WITH SUPERIOR COLOR OVER ANGLE PERFORMANCE.

## MOUNTING

SUSPENDED WITH 1/16" (1.6MM) AIRCRAFT CABLES, COLOR MATCHING CABLE AND GRIPPERS, INSTALLED AT FACTORY. AIRCRAFT CABLES AVAILABLE IN PRECUT LENGTHS OF 36" (915MM), 60" (1524MM), OR 120" (3048MM) WITH FABRIC-COVERED POWER CORD AND 5" (125MM) CANOPY.

## CARE

PET ACOUSTICS: REMOVE DUST WITH COMPRESSED AIR, A VACUUM OR LINT ROLLER. ALUMINUM & POLYMER COMPONENTS: REMOVE DUST AND DEBRIS WITH A CLEAN, DRY, OR DAMP LINT-FREE CLOTH.

## ELECTRICAL

HIGH QUALITY CLASS P ISOLATED POWER SUPPLY WITH UNIVERSAL (120-277VAC) INPUT VOLTAGE. MEETS UL OPERATION RATING DRY & DAMP (IP40) MAX 185°F (85°C) FOR 50,000 HOUR LIFE. LUMINARIES ARE PRE-WIRED WITH FACTORY INSTALLED BRANCH CIRCUIT WIRING.

POWER FACTOR:  
- 0.95 @ 120VAC  
- 0.90 @ 277VAC

## CERTIFICATES/LISTING

TESTED IN ACCORDANCE WITH NEC, ANSI/NFPA 70 STANDARDS. ETL LISTED IN ACCORDANCE WITH UL STANDARDS. INDOOR USE ONLY. SUITABLE FOR DRY LOCATIONS, IP20, ROHS COMPLIANT. TITLE 24 JA8-2016 FOR 90 CRI CONFIGURATIONS ONLY.

## DIMMING

STANDARD 120-277V CONSTANT CURRENT DRIVER INCLUDES 0-10V ANALOG DIMMING TO 1% OPTIONS FOR LUTRONECOSYSTEM AT 120/277V, TRIAC/ELV DALI, DMX, AND WARM DIM.

## WARRANTY

FIXTURE RATED FOR OPERATION IN CONDITIONED ENVIRONMENTS UP TO 77°F (25°C). FIXTURE IS WARRANTIED TO BE FREE FROM DEFECTS AND/OR FAILURE UNDER NORMAL USE AND PROPER STORAGE FOR FIVE (5) YEARS FROM DATE OF SHIPMENT.

## Declare.

**PET Acoustic Felt**  
Sabin 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; Benzoinamine, 4-(1-methyl-1-phenylethyl)-N-(4-(1-methyl-1-phenylethyl)phenyl)-; Benzoinpropionic acid, 3,5-bis(1-(1-methyl-1-phenylethyl)-4-hydroxy-octadecyl) ester; Octadecanamide, NN'-1,2-ethanediybis-; Stearic Acid; Titanium dioxide

**Living Building Challenge Criteria:**

**1-13 Red List:**

- LBC Red List Free
- LBC Red List Approved
- Declined

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

**1-16 Interior Performance:** Not Compliant

**1-14 Responsible Sourcing:** Not Applicable

SAB-0001  
EXP: 01 JUL 2024  
Original Issue Date: 2023

INTERNATIONAL LIVING FUTURE INSTITUTE™ [livingfuture.org/declare](http://livingfuture.org/declare)