

DATE	PROJECT	FIRM	FIXTURE TYPE
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CYLINDER DIFFUSE

Cylinder Diffuse 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-18000LM output
- 18 standard PET felt colors with color pairing opportunities
- 24 standard trim colors

SPECIFICATIONS

SERIES	DIAMETER ¹	HEIGHT ^{1,2}	CCT/CRI	CIRCUIT	DIRECT OUTPUT ³	SHIELDING	CONTROL
CYL-DF	24" (600MM) 35" (900MM) 47" (1200MM)	19" (475MM) 24" (600MM) 33" (850MM) 55" (1350MM) 112" (2850MM) CH ³	927 930 935 940	SC SINGLE CIRCUIT	24LP 24", 2000LM 24SP 24", 3500LM 24HP 24", 5000LM 35LP 35", 8000LM 35SP 35", 10000LM 35HP 35", 12000LM 47LP 47", 14000LM 47SP 47", 16000LM 47HP 47", 18000LM	DFO FROSTED LENS	10 0-10V TO 1%
EXTERIOR COLOR		INTERIOR COLOR		TRIM COLOR (OPTIONAL PREMIUM FINISH)			
15AM AMBER 15BR BEETROOT 15FL FLINT 15GF GULF 15HZ HAZEL 15JD JADE 15MY MERCURY 15MS MOSS	15OB OBSIDIAN 15PN PINE 15PM PUMICE 15QY QUARRY 15SP SAPPHIRE 15SD SAND 15SF SAFFRON 15WS WISTERIA	15AM AMBER 15BR BEETROOT 15FL FLINT 15GF GULF 15HZ HAZEL 15JD JADE 15MY MERCURY 15MS MOSS	15OB OBSIDIAN 15PN PINE 15PM PUMICE 15QY QUARRY 15SP SAPPHIRE 15SD SAND 15SF SAFFRON 15WS WISTERIA	NT NO TRIM AZ AZURE BF BLUFF CY CLAY CT CITRUS CU CURRANT DU DUNE EM EMERALD FE FERN	FR FROST HI HIBISCUS IN INDIGO IR IRIS LM LIME OL OLIVE OX ONYX PO POPPY SG SAGE	SH SHELL SK SKY SL SLATE SP SPRUCE ST STONE TM TIMBER WH WHITE	
CORD COLOR ⁴	MOUNTING		CANOPY ⁶		FACTORY OPTIONS ⁷		
PCBK BLACK PCBL BLUE PCBR BRONZE PCGR GREEN PCRD RED PCGY GRAY PCWH WHITE	AC__ 60" AIRCRAFT CABLE + (COLOR CODE) ⁵ WEB__ 60" WEBBING + (COLOR CODE) ⁵	TRD 3/8" THREADED ROD DTS DIRECT TO STRUT DTG DIRECT TO GRID	RWH ROUND WHITE RBK ROUND BLACK SWH SQUARE WHITE SBK SQUARE BLACK	CSL__ CUSTOM SUSPENSION LENGTH 24"-120" ⁸ EM EMERGENCY BATTERY CT CUSTOM THREAD ⁹ 2CP INCLUDE 2" CANOPIES			

1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.
 2 CUSTOM HEIGHTS AVAILABLE BETWEEN 19"-112" (475-2850MM).
 3 DIRECT OUTPUT SIZE NEEDS TO BE EQUAL TO OR LESS THAN FIXTURE SIZE.
 4 POWER CABLE IS 18" LONGER THAN SUSPENSION LENGTH. CONSULT FACTORY FOR LONGER LENGTHS.
 5 REPLACE "___" WITH DESIRED COLOR CODE. SEE PAGE 2 FOR COLOR OPTIONS AND CODES.
 6 5" (127MM) CANOPY PROVIDED FOR FEED, 2" (50.8MM) CANOPIES FOR NON-FEED PROVIDED UPON REQUEST.
 7 LEAVE BLANK IF NOT APPLICABLE. STRING TOGETHER MULTIPLE SELECTIONS.

8 REPLACE "___" WITH LENGTH OF DESIRED SUSPENSION.
 9 CONSULT FACTORY FOR CUSTOM THREAD COLOR OPTIONS.

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



EXAMPLE PART NUMBER: CYL-DF-35(900)-55(1350)-927-SC-24HP-DFO-10-15MY-15SP-NT-PCGY-ACSLV-RWH

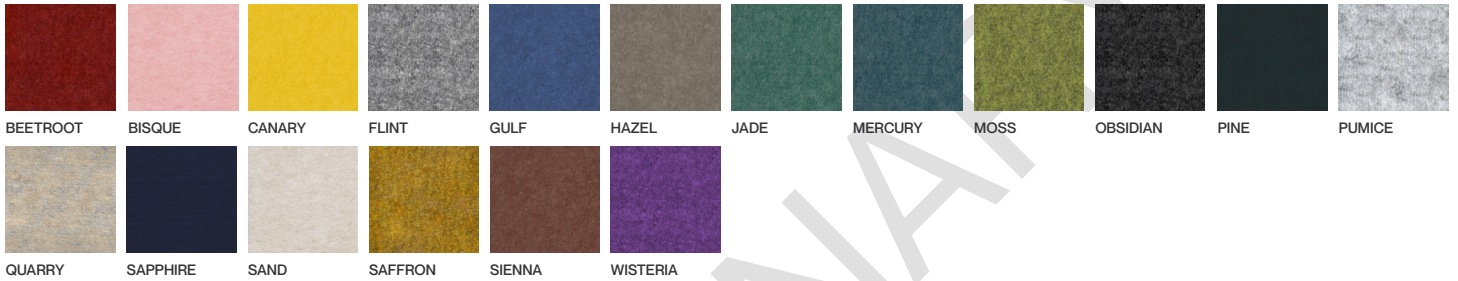
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SWATCHES

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.

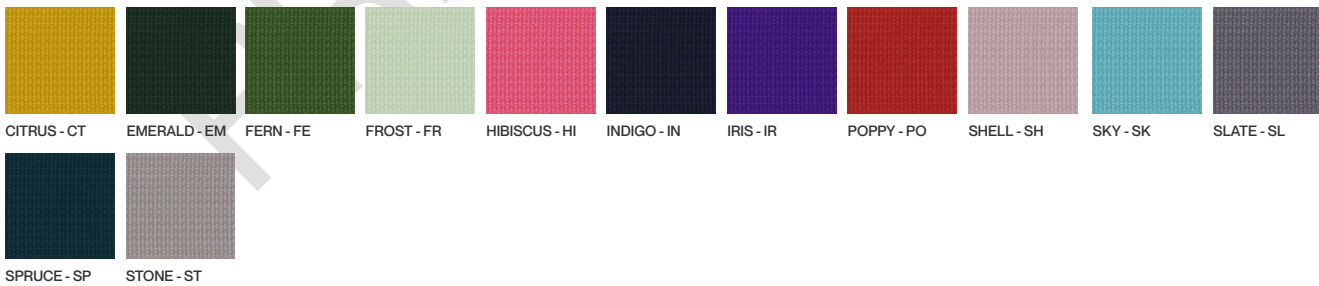
1.5MM FELT



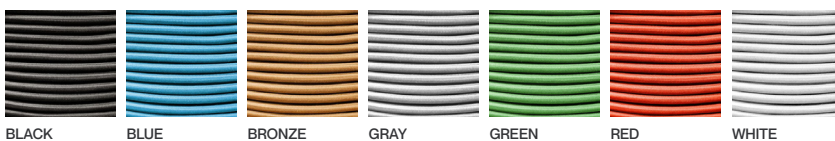
TRIM (OPTIONAL PREMIUM FINISH)



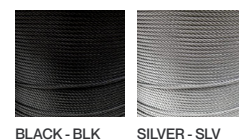
WEBBING



CORD



CABLE



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

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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.

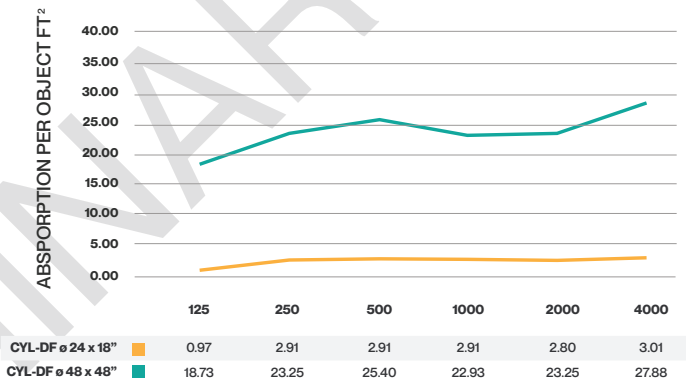
NRC NOISE REDUCTION COEFFICIENT (NRC) IS A SINGLE NUMBER VALUE RANGING FROM 0.0 TO 1.0 THAT DESCRIBES THE AVERAGE SOUND ABSORPTION PERFORMANCE OF A MATERIAL. AN NRC OF 0.0 INDICATES THE OBJECT DOES NOT ABSORB MID-FREQUENCY SOUND ENERGY, BUT REFLECTS IT. AN NRC OF 1.0 INDICATES THAT THE SOUND ABSORPTION 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.

CYLINDER DIFFUSE

ACOUSTIC PERFORMANCE

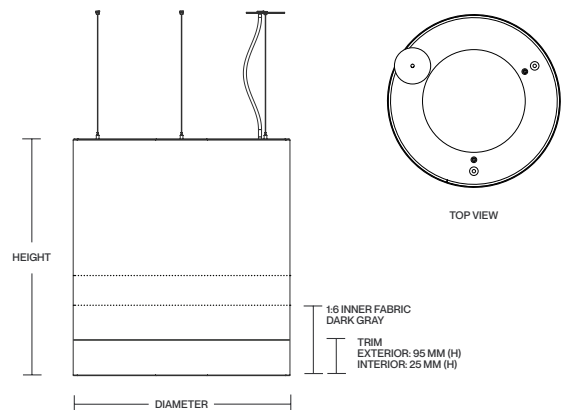


DIMENSIONS + WEIGHT

SERIES	DIAMETER ¹	HEIGHT ¹
CYL-DF	24" (600MM)	19" (475MM)
	35" (900MM)	24" (600MM)
	47" (1200MM)	33" (850MM)
		55" (1350MM)
		112" (2850MM)
		CH ²

¹ IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.
² CUSTOM HEIGHTS AVAILABLE BETWEEN 19"-112" (475-2850MM).

* 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

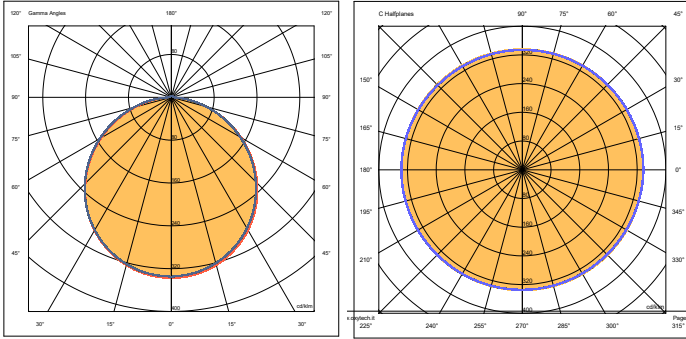
WEIGHT

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

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PHOTOMETRICS

*ACTUAL RESULTS PENDING



SIZE \varnothing 35" (900MM)
 CCT 3500K
 LUMENS 12000 LM
 EFFICACY 120 LM/W

ø24" (600MM) DIFFUSE LENS

POWER LEVEL	OUTPUT (LUMENS/FT)	EFFICACY (LPW)	CCT/CRI
LOW	2000	120	3500/90
MEDIUM	3500	120	3500/90
HIGH	5000	120	3500/90

Actual Results Pending

ø35" (900MM) DIFFUSE LENS

POWER LEVEL	OUTPUT (LUMENS/FT)	EFFICACY (LPW)	CCT/CRI
LOW	8000	120	3500/90
MEDIUM	10000	120	3500/90
HIGH	12000	120	3500/90

Actual Results Pending

ø47" (1200MM) DIFFUSE LENS

POWER LEVEL	OUTPUT (LUMENS/FT)	EFFICACY (LPW)	CCT/CRI
LOW	14000	120	3500/90
MEDIUM	16000	120	3500/90
HIGH	18000	120	3500/90

Actual Results Pending

CCT MULTIPLIER

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

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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: ASTEM 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 % Disclosed: 100% at 100ppm
 LBC Red List Approved VOC Content: Not Applicable
 Declined

1-16 Interior Performance: Not Compliant
1-14 Responsible Sourcing: Not Applicable

SAB-0001
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