

DATE PROJECT FIRM FIXTURE TYPE

OVERVIEW

Cylinder is a casual and soft-structured luminaire that demonstrates an elegant pairing of primitive form, high performance lighting, environmentally conscious materials, and is designed for easy recycling at end of service. It is constructed with no metal or rigid frame — resulting in a final product physically honest to its perceived appearance. Cylinder is offered with a useful range of optical beam spreads, lumen packages, sizes, and configurations making it an ideal product to marry solutions of lighting design and acoustic performance. Our commitment to craft shows up Sabin's signature sewn construction, which enables robust and simple design.



SPECIFICATIONS

SERIES	DIAMETER (FT)	HEIGHT ¹ (IN)	CCT/CRI	CIRCUIT	DIRECT OUTPUT	CONTROL	DIRECT OPTIC	TRIM (PREMIUM ADD-ON FINISH)	
CYL	1	18	927	SS SINGLE CIRCUIT	WD 1000LM	10WD 0-10V, WARM DIM	NS 15° SUPER NARROW	NT NO TRIM	FR FROST
	2	24	930			ECOWD LUTRON	SP 25° SPOT	IN INDIGO	BF BLUFF
	3	34	935			ECOSYSTEM, WARM DIM	FL 40° FLOOD	SP SPRUCE	SH SHELL
	4	54	940				WF 60° WIDE FLOOD	SK SKY	DU DUNE
	CD ²	112			VVL 750LM	10 0-10V TO 1%	GA +90° GENERAL AMBIENT	AZ AZURE	CY CLAY
		CH ³			VL 1000LM	10B 0-10V TO 0.1%	GL AMBIENT GLOW ⁴	SG SAGE	CU CURRANT
					LP 1250LM	ECO LUTRON ECOSYSTEM		EM EMERALD	ST STONE
					SP 1500LM	ELV TRIAC/ELV		OL OLIVE	SL SLATE
					HP 2000LM	DALI DALI		FE FERN	CT CITRUS
					VH 2500LM	DMX DMX		TM LIME	HI HIBISCUS
					VVH 3000LM			TM TIMBER	OX ONYX
								PO POPPY	WH WHITE
								IR IRIS	

1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE SHOWN ON PAGE 2.
2 CUSTOM DIAMETERS AVAILABLE IN 1" (25MM) INCREMENTS.
3 CUSTOM HEIGHTS AVAILABLE IN 1" (25MM) INCREMENTS.
4 ONLY UP TO 1500 LUMENS AND ONLY ABLE TO BE SPECIFIED WITH WHITE AND LIGHT GREY INNER COLOR
CONTACT THE FACTORY FOR ADDITIONAL HEIGHT AND LENGTH OPTIONS.

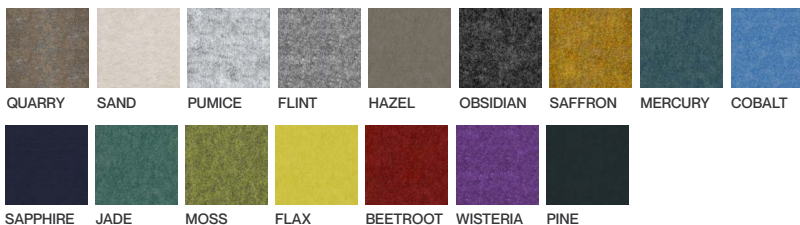
INNER COLOR AND OUTER COLOR (CHOOSE 2)				CORD COLOR	AIRCRAFT CABLE	CANOPY	CEILING HARDWARE
15QY QUARRY	15SF SAFFRON	15FX FLAX	WHT ¹ WHITE	BK BLACK	36BK 36" BLACK AC CABLE	BK BLACK	CTB9 T-BAR CADDY CLIP, 9/16"
15SD SAND	15MY MERCURY	15BR BEETROOT	REFELCTIVE	WH WHITE	36SLV 36" SILVER AC CABLE	WH WHITE	CTB15 T-BAR CADDY CLIP, 15/16"
15PM PUMICE	15CB COBALT	15WS WISTERIA	LG ¹ LIGHT GREY REFELCTIVE	SV SILVER	60BK 60" BLACK AC CABLE		CTG9 TEGULAR CADDY CLIP, 9/16"
15FL FLINT	15SP SAPPHIRE	15PN PINE	DG ¹ DARK GREY REFELCTIVE	BL BLUE	60SLV 60" SILVER AC CABLE		CTH15 TEGULAR CADDY CLIP, 15/16"
15HZ HAZEL	15JD JADE			BR BRONZE	120BK 120" BLACK AC CABLE		CHS HARD CEILING
15HZ OBSDIAN	15MS MOSS			GR GREEN	120SLV 120" SILVER AC CABLE		
				RD RED			

1 INNER COLOR OPTION ONLY

COLOR

CONTACT THE FACTORY FOR ADDITIONAL COLOR OPTIONS.

1.5MM FELT



REFLECTOR FABRIC



EXAMPLE PART NUMBER: CYL-3-18-935-SS-HP-10-FL-15QY-WWT-BK-WH-60SLV-WH-CHS

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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.

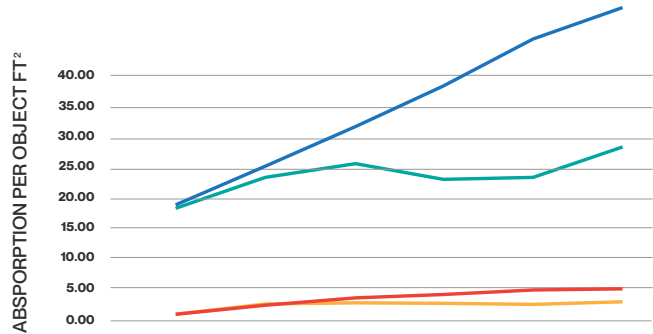
SABINS A SABIN IS A UNIT OF SOUND ABSORPTION DEFINED AS THE AMOUNT OF SOUND ABSORBED BY ONE SQUARE FOOT OF A PERFECT ABSORBER. IT WAS INITIALLY CONCEIVED AS THE EQUIVALENT OF 1 SQUARE FOOT OF OPEN WINDOW, REFLECTING NO SOUND BACK INTO THE INTERIOR. SABINS ARE USED TO EXPRESS THE TOTAL EFFECTIVE ABSORPTION 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.

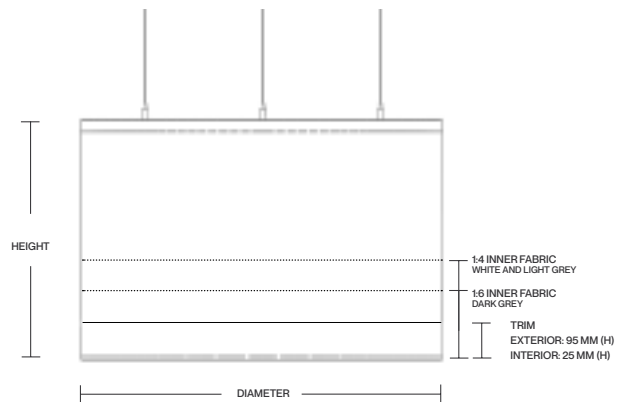
SABIN CYLINDER FAMILY ACOUSTIC PERFORMANCE



	125	250	500	1000	2000	4000
LIT 120 x 18	0.97	2.91	2.91	2.91	2.80	3.01
UNLIT 120 x 18	1.08	2.48	3.77	4.41	5.06	5.38
LIT 480 x 48	18.73	23.25	25.40	22.93	23.25	27.88
UNLIT 480 x 48	18.41	25.19	31.86	38.10	45.53	50.48

DIMENSIONS + WEIGHT

SERIES	HEIGHT 1 (INCHES)	LENGTH 1 (FEET)
CYL	18" (475MM)	1' (950MM)
CYLINDER	24" (600MM)	2' (1250MM)
	34" (850MM)	3' (1550MM)
	54" (1350MM)	4' (1875MM)
	112" (2850MM)	CD CUSTOM DIAMETER 3
CH CUSTOM HEIGHT 2		



1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE SHOWN IN MILLIMETERS.
2 CUSTOM HEIGHTS AVAILABLE BETWEEN 18" - 112" (475-2850MM) IN 1" (25MM) INCREMENTS.
3 CUSTOM DIAMETER AVAILABLE BETWEEN 1' - 4' (300-1200MM) IN 1" (25MM) INCREMENTS.
* ALL STANDARD DIMENSIONS ARE ECO-FRIENDLY, MAXIMIZING MATERIAL USE AND MINIMIZING WASTE. CUSTOM DIMENSIONS RESULT IN EXCESS MATERIAL WASTE.

SEE DIMENSIONS + WEIGHT TABLE FOR LIMITATIONS

WEIGHT

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

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ACOUSTIC MATERIAL

OUR 1.5MM 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 ALMOST ENTIRELY OF RECYCLED PET PARTS AND HELD TOGETHER WITH OUR SEWN CONSTRUCTION.

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 @ 3000K $\pm 66K \Delta UV + 0.0004$ STANDARD DEVIATION COLOR MATCHING (SDCM) BASED ON ANSISTANDARD C78.377A INDICATES THE VISIBLE VARIANCE IN CORRELATED COLOR TEMPERATURE, ALSO REFERRED TO AS "MACADAM ELLIPSE".

ESTIMATED USEFUL LIFETIME

ESTIMATED USEFUL LIFETIME BASED ON 12,000 HOUR TEST DURATION @ 131°F (55°C):

- L90 = 45,800 HRS
- L80 = 72,000 HRS
- L70 = 72,000 HRS

ANSI/IES TM-21 METHOD FOR EVALUATING USEFUL LIFETIME IS LIMITED TO 6X TEST DURATION (12,000 HOURS X 6 = 72,000 HOUR MAX).

OPTICS

INJECTION MOLDED, LOW PROFILE ACRYLIC LENS DESIGNED FOR EFFICIENT AND HOMOGENEOUS LIGHT DISTRIBUTION WITH SUPERIOR COLOR OVER ANGLE PERFORMANCE. PROVIDES BEAM CONTROL DOWN TO 15° AND UP TO +90°. OPTICS ARE FIELD CHANGEABLE.

BEAM SPREAD: GENERAL AMBIENT (90°+), NARROW SPOT (15°), SPOT (25°), FLOOD (40°), WIDE FLOOD (60°), LINEAR SPREAD (40° X 20°), SOFT FOCUS

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

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.

MOUNTING

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

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.

WARRANTY

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

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.