

DATE	PROJECT	FIRM	FIXTURE TYPE
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CYLINDER - LIT

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 ¹	HEIGHT ¹	CCT/CRI	CIRCUIT	DIRECT OUTPUT ⁴		DIRECT OPTIC			CONTROL			
CYL-L	12" (300MM)	19" (475MM)	927	SC SINGLE CIRCUIT	D750	750LM	DNS 15° NARROW SPOT	DSP 25° SPOT	DFL 40° FLOOD	DWF 60° WIDE FLOOD	DGA ⁵ +90° GENERAL AMBIENT	10	0-10V TO 1%
	24" (600MM)	24" (600MM)	930		D1500	1500LM						10B	0-10V TO 0.1%
	35" (900MM)	33" (850MM)	935		D2000	2000LM						ECO	LUTRON ECOSYSTEM
	47" (1200MM)	55" (1350MM)	940		D2500	2500LM						ELV	TRIAC/ELV
	CD ²	112" (2850MM)			D3000	3000LM						DALI	DALI
		CH ³			WD1000	1000LM						DMX	DMX
LIGHT SOURCE TRIM COLOR		EXTERIOR COLOR			INTERIOR COLOR			TRIM COLOR (OPTIONAL PREMIUM FINISH)					
LWH WHITE		15BR BEETROOT	15OB OBSIDIAN	15BR BEETROOT	15OB OBSIDIAN	NT NO TRIM	FR FROST	SH SHELL					
LBK BLACK		15BS BISQUE	15PN PINE	15BS BISQUE	15PN PINE	AZ AZURE	HI HIBISCUS	SK SKY					
		15CN CANARY	15PM PUMICE	15CN CANARY	15PM PUMICE	BF BLUFF	IN INDIGO	SL SLATE					
		15FL FLINT	15QY QUARRY	15FL FLINT	15QY QUARRY	CY CLAY	IR IRIS	SP SPRUCE					
		15GF GULF	15SP SAPPHIRE	15GF GULF	15SP SAPPHIRE	CT CITRUS	LM LIME	ST STONE					
		15HZ HAZEL	15SD SAND	15HZ HAZEL	15SD SAND	CU CURRANT	OL OLIVE	TM TIMBER					
		15JD JADE	15SF SAFFRON	15JD JADE	15SF SAFFRON	DU DUNE	OX ONYX	WH WHITE					
		15MY MERCURY	15SA SIENNA	15MY MERCURY	15SA SIENNA	EM EMERALD	PO POPPY						
		15MS MOSS	15WS WISTERIA	15MS MOSS	15WS WISTERIA	FE FERN	SG SAGE						
CORD COLOR ⁶		MOUNTING			CANOPY ⁸		FACTORY OPTIONS ⁹						
PCBK BLACK		AC __	60" AIRCRAFT CABLE + (COLOR CODE) ⁷			RWH ROUND WHITE	CSL __	CUSTOM SUSPENSION LENGTH 24"-120" ¹⁰					
PCBL BLUE		WEB __	60" WEBBING + (COLOR CODE) ⁷			RBK ROUND BLACK	EM	EMERGENCY BATTERY					
PCBR BRONZE		TRD	3/8" THREADED ROD			SWH SQUARE WHITE	CT	CUSTOM THREAD ¹¹					
PCGR GREEN		DTS	DIRECT TO STRUT			SBK SQUARE BLACK	2CP	INCLUDE 2" CANOPIES					
PCRD RED		DTG	DIRECT TO GRID										
PCGY GRAY													
PCWH WHITE													

1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.
 2 CUSTOM DIAMETER AVAILABLE BETWEEN 12"-47" (300-1200MM).
 3 CUSTOM HEIGHTS AVAILABLE BETWEEN 19"-112" (475-2850MM).
 4 GENERAL AMBIENT ONLY AVAILABLE WITH 750 AND 1500 LUMEN OPTIONS.
 5 24" (600MM) DIAMETER MINIMUM FOR OUTPUT >1500 LUMENS.
 6 POWER CABLE IS 18" LONGER THAN SUSPENSION LENGTH. CONSULT FACTORY FOR LONGER LENGTHS.
 7 REPLACE " __ " WITH DESIRED COLOR CODE. SEE PAGE 2 FOR COLOR OPTIONS AND CODES.

8 5" (127MM) CANOPY PROVIDED FOR FEED. 2" (50.8MM) CANOPIES FOR NON-FEED PROVIDED UPON REQUEST.
 9 LEAVE BLANK IF NOT APPLICABLE. STRING TOGETHER MULTIPLE SELECTIONS.
 10 REPLACE " __ " WITH LENGTH OF DESIRED SUSPENSION.
 11 CONSULT FACTORY FOR CUSTOM THREAD COLOR OPTIONS.

SEE ADDITIONAL OPTIONS FOR SIZE, TRIM FINISH, AND CUSTOMIZATION AT [SABIN.BUILD](https://sabin.build)



EXAMPLE PART NUMBER: CYL-L-24(600)-19(475)-927-SC-D1500-DSP-10-LWH-15MY-15SP-TM-PCGY-ACSLV-RWH



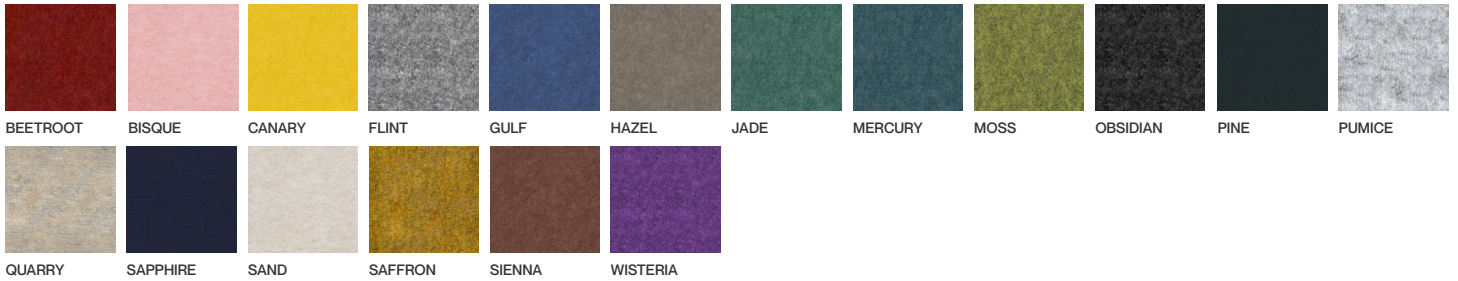
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SWATCHES

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.

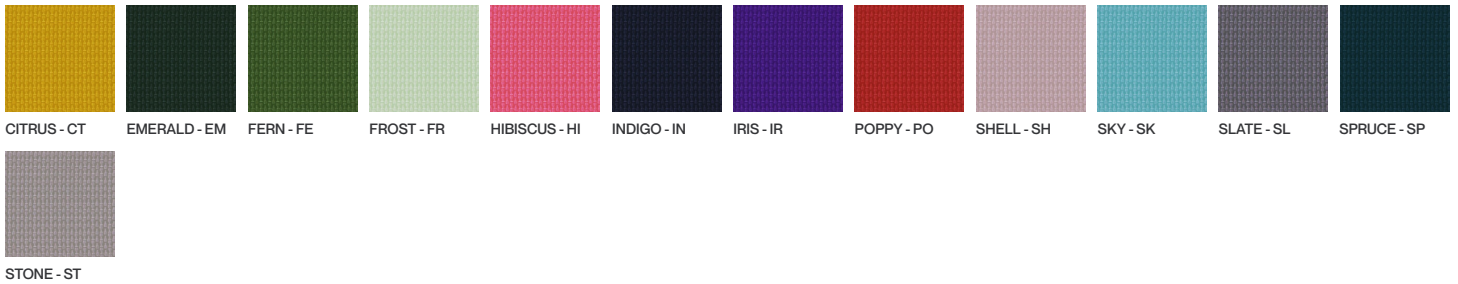
1.5MM FELT



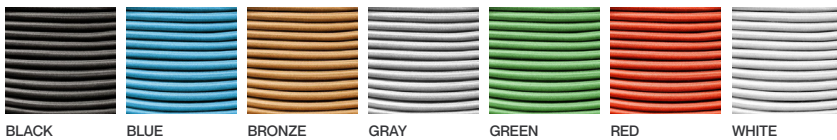
TRIM (OPTIONAL PREMIUM FINISH)



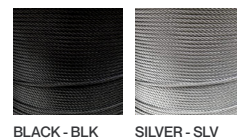
WEBBING



CORD



CABLE



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

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ACOUSTIC PERFORMANCE DATA

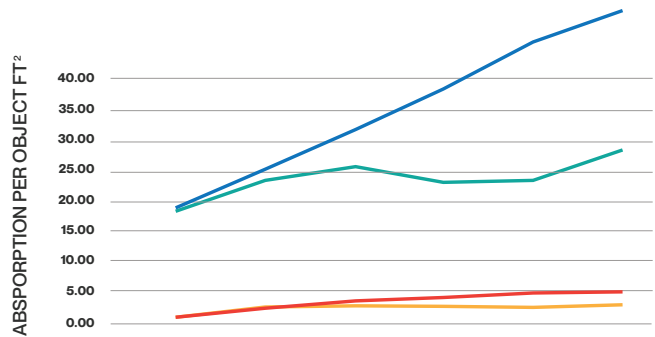
ALL SABIN PRODUCTS ARE SUBJECT TO ACOUSTIC TESTING. PERFORMANCE VALUES WILL VARY BASED ON INSTALLATION FACTORS SUCH AS DENSITY AND MOUNTING HEIGHT.

SABIN CYLINDER FAMILY ACOUSTIC PERFORMANCE

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



	125	250	500	1000	2000	4000
LIT ø 12 x 18"	0.97	2.91	2.91	2.91	2.80	3.01
UNLIT ø 12 x 18"	1.08	2.48	3.77	4.41	5.06	5.38
LIT ø 48 x 48"	18.73	23.25	25.40	22.93	23.25	27.88
UNLIT ø 48 x 48"	18.41	25.19	31.86	38.10	45.53	50.48

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

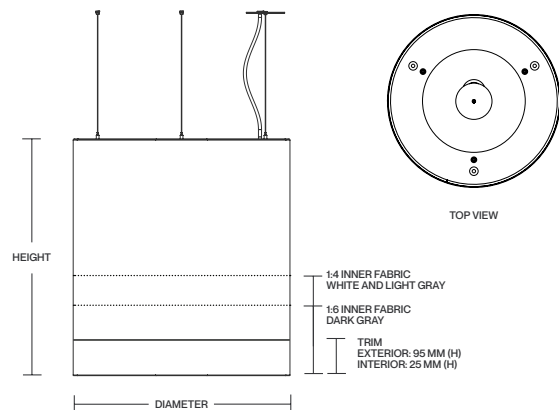
SERIES	DIAMETER ¹	HEIGHT ¹
CYL-L	12" (300MM)	19" (475MM)
	24" (600MM)	24" (600MM)
	35" (900MM)	33" (850MM)
	47" (1200MM)	55" (1350MM)
	CD ²	112" (2850MM)
		CH ³

¹ IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.

² CUSTOM DIAMETER AVAILABLE BETWEEN 12"-47" (300-1200MM).

³ 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

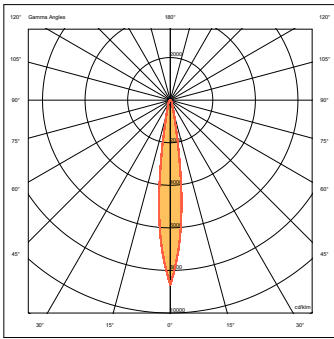
PLEASE CONSULT THE FACTORY FOR PRODUCT WEIGHTS BASED ON CONFIGURATION AND PART NUMBERS.

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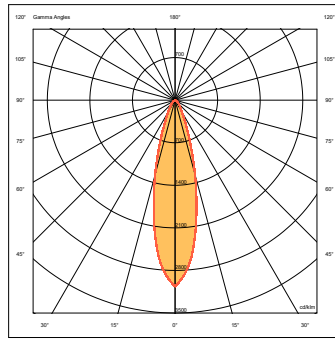
PHOTOMETRICS

*ACTUAL RESULTS PENDING

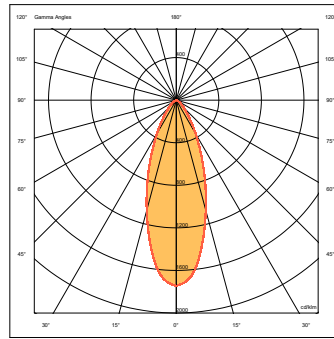
NARROW OPTIC



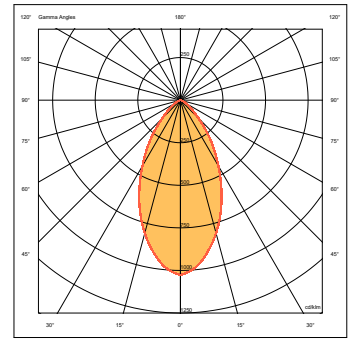
SPOT OPTIC



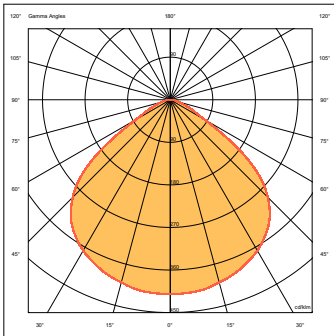
FLOOD OPTIC



WIDE OPTIC



GENERAL AMBIENT OPTIC



DELIVERED LUMENS

LUMEN PACKAGE	NARROW SPOT	SPOT	FLOOD	GENERAL AMBIENT
LP (750LM)	757	734	723	677
SP (1500LM)	1189	1153	1136	1064
HP (2000LM)	2327	2288	2139	N/A
VH (2500LM)	2909	2860	2854	N/A
VVH (3000LM)	3490	3432	3209	N/A

*DELIVERED LUMENS BASED ON A 3500K CCT.

CCT MULTIPLIER

CCT MULTIPLIER	2700K	3000K	3500K	4000K
	0.9	0.95	1.00	1.01

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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

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 ±66K ΔUV +0.0004 STANDARD DEVIATION COLOR MATCHING (SDCM) BASED ON ANSISTANDARD C78.377A INDICATING THE VISIBLE VARIANCE IN CORRELATED COLOR TEMPERATURE, ALSO REFERRED TO AS "MACADAM ELLIPSE".

ESTIMATED USEFUL LIFETIME

L⁷⁰ = 62,791 HOURS
LUMINOUS FLUX MAINTENANCE LIFE L⁷⁰(9K) BASED ON IES TM-28-147 9000-HOUR TEST AT TA = 45°C.

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

CARE

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

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" (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.

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 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 Years
End of Life Options: Salvageable/Reusable in its Entirety, Recyclable (100%)

Ingredients:

Polyethylene Terephthalate; Benzeneamine, 4-(1-methyl-1-phenylethyl)-N-(4-(1-methyl-1-phenylethyl)phenyl)-; Benzenepropanoic acid, 3,5-bis(1-dimethylethyl)-4-hydroxy-, octadecyl ester; Octadecanamide, N,N'-1,2-ethanediybis-; Stearic Acid; Titanium dioxide

Living Building Challenge Criteria:

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: Not Compliant
I-14 Responsible Sourcing: Not Applicable

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

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