

DATE	PROJECT	FIRM	FIXTURE TYPE
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RAFT - LIT

Raft is a standard structured combination of our flagship acoustic luminaire supporting L27 baffles. This approach is a tidy, elegant method to create a complete and highly integrated array, with prefabricated and precise fitment from our factory. You can be sure Raft is set up for success within your project. Sabin's family of linear products share a common design language, put to good use in this concise combination. Our commitment to craft shows up in Sabin's signature sewn construction, which enables a robust and simple design.

SPECIFICATIONS

SERIES	LAYOUT	LENGTH ^{1,2,3}	WIDTH ^{1,7}	HEIGHT ¹	L-27 SPACING	CCT/CRI	CIRCUIT
RFT-L	A B	49" (1253MM) 61" (1553MM) 74" (1878MM) 86" (2178MM) ⁴ 92" (2328MM) ⁴ 98" (2491MM) ^{4,5} 132" (3350MM) ⁵ CL ⁶	49" (1253MM) 61" (1553MM) 74" (1878MM) 86" (2178MM) 92" (2328MM) CW ⁸	12" (300MM) 16" (400MM) 20" (500MM) CH ⁹	80C 8" (200MM) ON CENTER 120C 12" (300MM) ON CENTER 160C 16" (400MM) ON CENTER 200C 20" (500MM) ON CENTER 240C 24" (600MM) ON CENTER	927 930 935 940	SS SINGLE CIRCUIT
DIRECT OUTPUT		DIRECT OPTIC	CONTROL		VOLTAGE	FELT COLOR	
D200 200LM/FT D400 400LM/FT D700 700 LM/FT D1000 1000 LM/FT D1300 1300 LM/FT		DDL DIFFUSE LENS DBL BATWING	10 0-10V		UNV 120V/277V 347 347V	9BS BISQUE 9BR BIRCH 9CN CANARY 9FL FLINT 9GF GULF 9HZ HAZEL 9JD JADE 9MS MOSS	9OB OBSIDIAN 9PN PINE 9PM PUMICE 9QY QUARRY 9SD SAND 9SP SAPPHIRE 9SA SIENNA 9WS WISTERIA
CORD COLOR ¹⁰		MOUNTING		CANOPY ¹²	FACTORY OPTIONS ¹³		
PCBK BLACK PCBL BLUE PCBR BRONZE PCGR GREEN PCRD RED PCGY GRAY PCWH WHITE		AC 60" AIRCRAFT CABLE + (COLOR CODE) ¹¹ WEB 60" WEBBING + (COLOR CODE) ¹¹ TRD 3/8" THREADED ROD		RWH ROUND WHITE RWH SQUARE WHITE RWH ROUND BLACK RWH SQUARE BLACK	CSL CUSTOM SUSPENSION LENGTH 24"-120" ¹⁴ EM EMERGENCY BATTERY ^{15, 16} CT CUSTOM THREAD ¹⁷ 2CP INCLUDE 2" CANOPIES		

¹ IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.

² LENGTH OF SYSTEM IS EQUAL TO LENGTH L-60 LUMINAIRE.

³ ILLUMINATED SECTION OF FIXTURE IS 2" (53MM) SHORTER THAN TOTAL FIXTURE LENGTH.

⁴ ACHIEVED WITH PART LINE BETWEEN PET CLADDING DOWN CENTER OF L-60 BAFFLE

⁵ LENS MEASURES A TRUE 8" - ACHIEVED WITH PART LINE BETWEEN PET CLADDING DOWN CENTER OF BAFFLE

⁶ CUSTOM LENGTHS AVAILABLE BETWEEN 49" - 132" (1253-3350MM).

⁷ WIDTH OF SYSTEM IS EQUAL TO LENGTH OF L-27 BAFFLES

⁸ CUSTOM WIDTHS AVAILABLE BETWEEN 49" - 92" (1253-2328MM).

⁹ CUSTOM HEIGHTS AVAILABLE BETWEEN 12" - 20" (300-500MM).

¹⁰ POWER CABLE IS 18" LONGER THAN SUSPENSION LENGTH. CONSULT FACTORY FOR LONGER LENGTHS.

¹¹ REPLACE " " WITH DESIRED COLOR CODE. SEE PAGE 2 FOR COLOR OPTIONS AND CODES.

¹² 5" (127MM) CANOPY PROVIDED, 2" (50.8MM) CANOPY PROVIDED UPON REQUEST.

¹³ LEAVE BLANK IF NOT APPLICABLE.

¹⁴ REPLACE " " WITH LENGTH OF DESIRED SUSPENSION.

¹⁵ MINIMUM LENGTH FOR EM IS 49" (1253MM).

¹⁶ REPLACE " " WITH QUANTITY OF EM SECTIONS.

¹⁷ CUSTOM THREAD COLORS AVAILABLE. CONSULT FACTORY.

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



EXAMPLE PART NUMBER: RFT-L-A-49(1253)-49(1253)-12(300)-160C-927-SS-D700-DBL-10-UNV-9JD-PCWH-ACSLV-RWH

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SWATCHES

Linear utilizes 9mm felt and has the option to customize color for cable and thread — and cord (for lit fixtures.)

Contact the factory for additional color options.

9MM FELT


BISQUE


BIRCH


CANARY


FLINT


GULF


HAZEL


JADE


MOSS


OBSIDIAN



PINE


PUMICE


QUARRY


SAND


SAPPHIRE

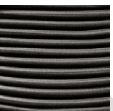

WISTERIA


CABLE



BLACK - BLK



SILVER - SLV


CORD



BLACK



BLUE


BRONZE


GRAY


GREEN


RED


WHITE

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

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; Benzenamine, 4-(1-methyl-1-phenylethyl)-N-[(4-(1-methyl-1-phenylethyl)phenyl)-1,3-benzenedicarboxylic acid, 3,5-bis(1-dimethylethyl)-4-hydroxy-, octadecyl ester; Octadecanamide; N,N'-1,2-ethanediylbis-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

INTERNATIONAL LIVING FUTURE INSTITUTE™ livingfuture.org/declare

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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.

DIMENSIONS + WEIGHT

SERIES	LENGTH ¹⁻⁴	HEIGHT ¹	WIDTH ^{1,7}
RFT-L	49" (1253MM)	12" (300MM)	49" (1253MM)
	61" (1553MM)	16" (400MM)	61" (1553MM)
	74" (1878MM)	20" (500MM)	74" (1878MM)
	86" (2178MM) ⁵		86" (2178MM)
	92" (2328MM) ⁵		92" (2328MM)
	98" (2491MM) ^{5,6}		
	132" (3350MM) ⁵		

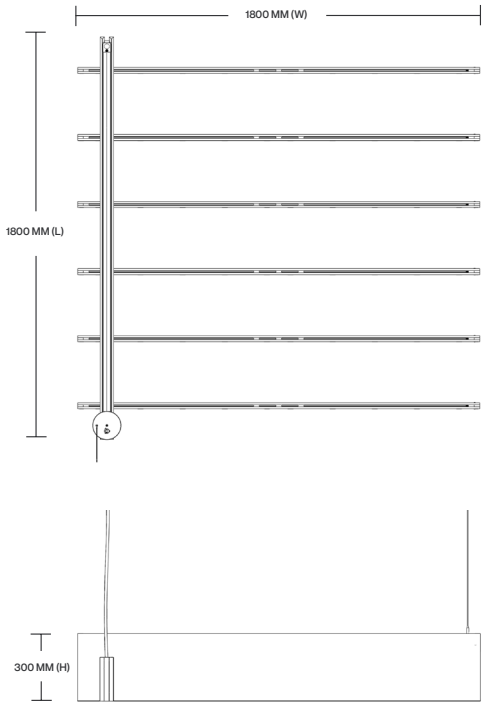
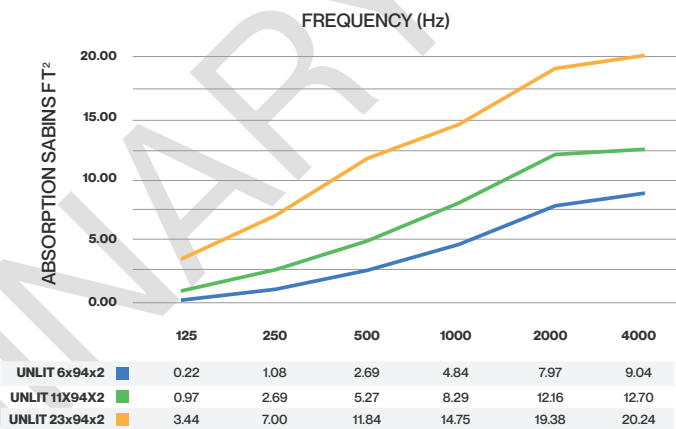
1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.
2 LENGTH OF SYSTEM IS EQUAL TO LENGTH OF L-60 FIXTURE.
3 ILLUMINATED SECTION OF FIXTURE IS 2" (53MM) SHORTER THAN TOTAL FIXTURE LENGTH.
4 MINIMUM LENGTH FOR EM IS 49" (1253MM).
5 ACHIEVED WITH PART LINE BETWEEN PET CLADDING DOWN CENTER OF L-60 BAFFLE.
6 TRUE 8" CONTINUOUS LENS.
7 WIDTH OF SYSTEM IS EQUAL TO LENGTH OF L-27 BAFFLES.

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

WEIGHT

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

SABIN RAFT
PROJECTED PERFORMANCE

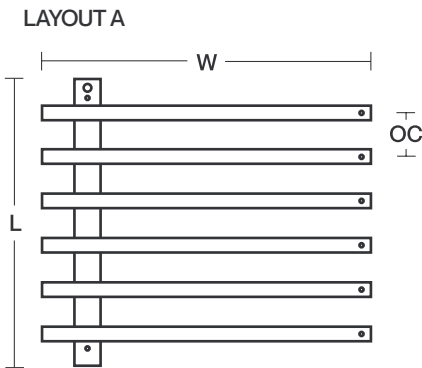


See Dimensions and Weight Table for Limitations

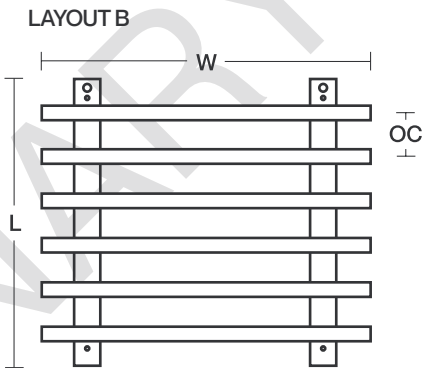
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RAFT LAYOUTS

SABIN OFFERS TWO STANDARD RAFT CONFIGURATIONS. RAFTS SHIP AS INDIVIDUAL COMPONENT AND MUST BE ASSEMBLED IN THE FIELD.



- 1 LENGTH (L) OF SYSTEM IS EQUAL TO LENGTH L-60 LUMINAIRE.
- 2 ILLUMINATED SECTION OF FIXTURE IS 2" (53MM) SHORTER THAN TOTAL FIXTURE LENGTH.
- 3 CUSTOM LENGTHS AVAILABLE BETWEEN 49" - 98" (1253-2491MM).



- 4 WIDTH (W) OF SYSTEM IS EQUAL TO LENGTH OF L-27 BAFFLES.
- 5 CUSTOM WIDTHS AVAILABLE BETWEEN 49" - 92" (1253-2328MM).

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

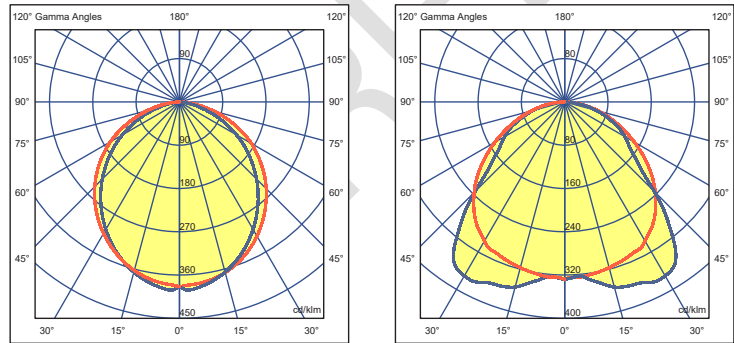


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PHOTOMETRICS

DIFFUSE LENS (DIRECT)				
POWER LEVEL	OUTPUT (LUMENS/FT)	ENERGY (WATTS/FT)	EFFICACY (LPW)	CCT/CRI
D200	213*	2.665832	79.9	3500/90
D500	500	6.535948	76.5	3500/90
D750	750	10.5042	71.4	3500/90
D1000	1000	15.5521	64.3	3500/90
BATWING (DIRECT)				
POWER LEVEL	OUTPUT (LUMENS/FT)	ENERGY (WATTS/FT)	EFFICACY (LPW)	CCT/CRI
D200	200	2.18	91.6	3500/90
D500	500	5.71	87.5	3500/90
D750	750	9.06	82.8	3500/90
D1000	1000	13	76.9	3500/90
D1250	1248.05*	17.96	69.5	3500/90
CCT MULTIPLIER				
CCT	2700K	3000K	3500K	4000K
MULTIPLIER	0.93	0.98	1	1.03

DIRECT LENS DISTRIBUTIONS



SIZE 49" (1253MM)
TYPE DIFFUSE LENS (DDL)
CCT 3500K
WATTAGE 72.9 W
LUMENS 4427.4 LM
EFFICACY 60.7 LM/W

SIZE 49" (1253MM)
TYPE BATWING (DBL)
CCT 3500K
WATTAGE 71.84 W
LUMENS 4992.2 LM
EFFICACY 69.5 LM/W

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ACOUSTIC MATERIAL

OUR 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: 11 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.

DIMMING

STANDARD 120-277V CONSTANT CURRENT DRIVER INCLUDES 0-10V ANALOG DIMMING TO 10%

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.

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 >80 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".

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.

ESTIMATED USEFUL LIFETIME

ESTIMATED USEFUL LIFETIME BASED ON 10,000 HOUR TEST DURATION @ 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).

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.

OPTICS

EXTRUDED .06" (1.52MM) ACRYLIC LENS DESIGNED FOR EFFICIENT AND HOMOGENEOUS LIGHT DISTRIBUTION WITH SUPERIOR COLOR OVER ANGLE PERFORMANCE.

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