

DATE	PROJECT	FIRM	FIXTURE TYPE
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QUAD - LIT

Quad is designed to ground a space with its unique form that balances planar structure with steady curves. It is made entirely of PET materials and carefully constructed with no metal or rigid frame. Quad 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. Its aesthetically elegant radius not only creates visual balance but, due to Sabin's signature sewn construction, eliminates the multiple parts, extra processes, and complex assembly that are usually required to achieve this rounded edge and unique shape.

SPECIFICATIONS

SERIES	LENGTH/WIDTH ^{1,2,3}	HEIGHT ^{1,5}	CCT/CRI	CIRCUIT	DIRECT OUTPUT ⁹	DIRECT OPTIC	CONTROL	
QUD-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 ⁷ +90° GENERAL AMBIENT	10 0-10V TO 1% 10B 0-10V TO 0.1% ECO LUTRON ECOSYSTEM ELV TRIAC/ELV DALI DALI DMX DMX	
	24" (600MM)	24" (600MM)	930		D1000 1500LM			
	35" (900MM)	33" (850MM)	935		D2000 2000LM		10WD 0-10V, WARM DIM ECOWD LUTRON ECOSYSTEM, WARM DIM	
	47" (1200MM)	55" (1350MM)	940		D2500 2500LM			
	CLW ⁴	112" (2850MM)			D3000 3000LM			
		CH ⁶			WD1000 1000LM			
LIGHT SOURCE TRIM COLOR		EXTERIOR COLOR		INTERIOR COLOR		TRIM COLOR (OPTIONAL PREMIUM FINISH)		
LWH WHITE LBK BLACK		15BR BEETROOT 15BS BISQUE 15CN CANARY 15FL FLINT 15GF GULF 15HZ HAZEL 15JD JADE 15MY MERCURY 15MS MOSS	15OB OBSIDIAN 15PN PINE 15PM PUMICE 15QY QUARRY 15SP SAPPHIRE 15SD SAND 15SA SIENNA 15WS WISTERIA	15BR BEETROOT 15BS BISQUE 15CN CANARY 15FL FLINT 15GF GULF 15HZ HAZEL 15JD JADE 15MY MERCURY 15MS MOSS	15OB OBSIDIAN 15PN PINE 15PM PUMICE 15QY QUARRY 15SP SAPPHIRE 15SD SAND 15SA SIENNA 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 ⁸		MOUNTING		CANOPY ¹⁰		FACTORY OPTIONS ¹¹		
PCBK BLACK PCBL BLUE PCBR BRONZE PCGR GREEN PCRD RED PCGY GRAY PCWH WHITE		AC __ 60" AIRCRAFT CABLE + (COLOR CODE) ⁹ WEB __ 60" WEBBING + (COLOR CODE) ⁹	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" ¹² EM EMERGENCY BATTERY CT CUSTOM THREAD ¹³ 2CP INCLUDE 2" CANOPIES			

1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.
 2 QUAD IS ALWAYS SQUARE. CHOSEN DIMENSION APPLIES TO BOTH LENGTH AND WIDTH.
 3 24"x24" (600MMX600MM) MINIMUM FOR OUTPUT >1500 LUMENS.
 4 CUSTOM LENGTHS AND WIDTHS AVAILABLE BETWEEN 12" - 47" (300-1200MM).
 5 16" (400MM) HEIGHT MINIMUM FOR OUTPUT >1500 LUMENS.
 6 CUSTOM HEIGHTS AVAILABLE BETWEEN 19" - 112" (475-2850MM).
 7 GENERAL AMBIENT ONLY AVAILABLE WITH 750 AND 1500 LUMEN OPTIONS.
 8 POWER CABLE IS 18" LONGER THAN SUSPENSION LENGTH. CONSULT FACTORY FOR LONGER LENGTHS.

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

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



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

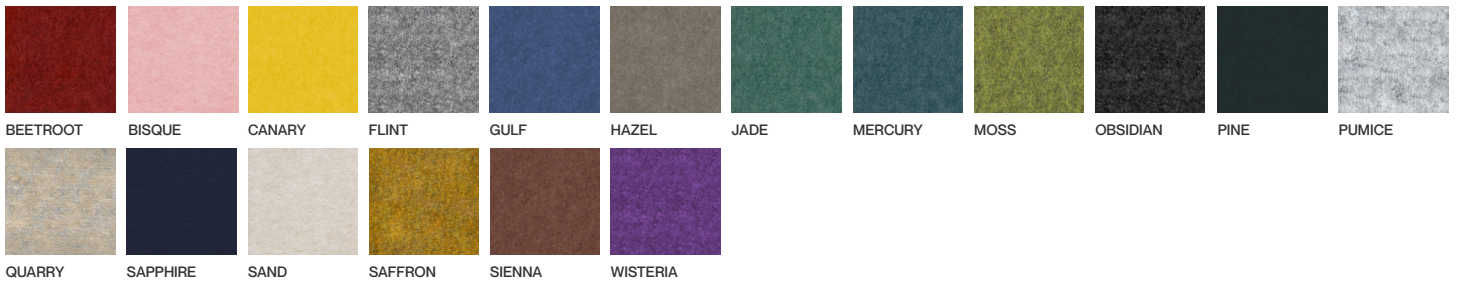
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SWATCHES

Quad 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.

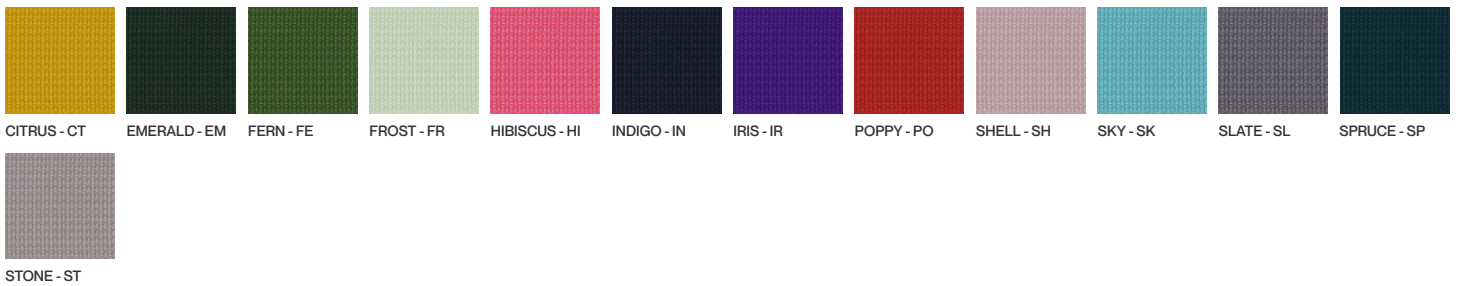
1.5MM FELT



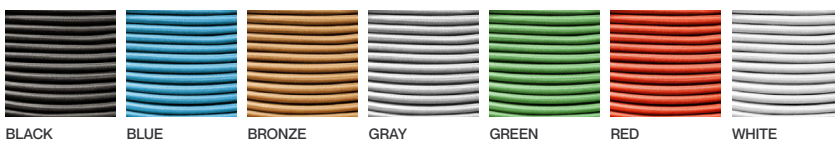
TRIM (OPTIONAL PREMIUM FINISH)



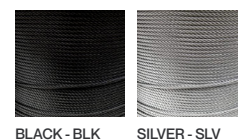
WEBBING



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.

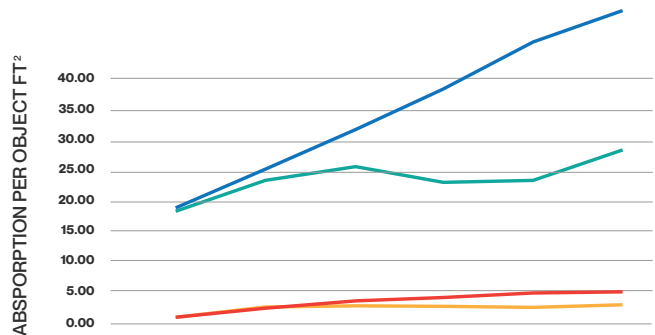
SABINS A SABIN IS A UNIT OF SOUND ABSORPTION DEFINED AS THE AMOUNT OF SOUND ABSORBED BY ONE SQUARE FOOT OF A PERFECT ABSORBER. IT WAS INITIALLY CONCEIVED AS THE EQUIVALENT OF 1 SQUARE FOOT OF OPEN WINDOW, REFLECTING NO SOUND BACK INTO THE INTERIOR. SABINS ARE USED TO EXPRESS THE TOTAL EFFECTIVE ABSORPTION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

QUAD
PROJECTED ACOUSTIC PERFORMANCE



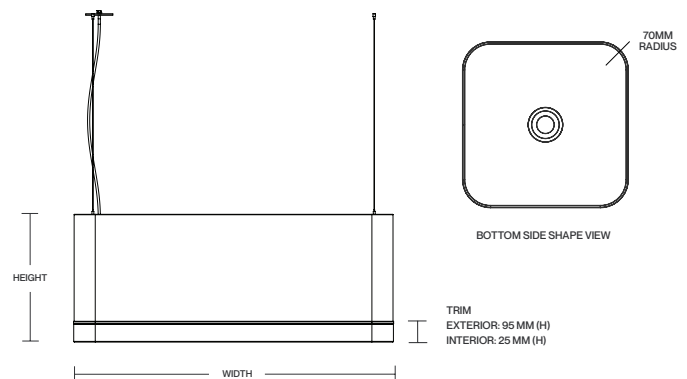
	125	250	500	1000	2000	4000
LIT 12 x 18	0.97	2.91	2.91	2.91	2.80	3.01
UNLIT 12 x 18	1.08	2.48	3.77	4.41	5.06	5.38
LIT 48 x 48	18.73	23.25	25.40	22.93	23.25	27.88
UNLIT 48 x 48	18.41	25.19	31.86	38.10	45.53	50.48

DIMENSIONS + WEIGHT

SERIES	LENGTH/WIDTH ^{1,4}	HEIGHT ¹
QUD-L	12" (300MM)	19" (475MM)
	24" (600MM)	24" (600MM)
	35" (900MM)	33" (850MM)
	47" (1200MM)	55" (1350MM)
	CLW ²	112" (2850MM)
		CH ³

- 1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE METRIC.
- 2 CUSTOM LENGTHS AND WIDTHS AVAILABLE BETWEEN 12" - 47" (300-1200MM).
- 3 CUSTOM HEIGHTS AVAILABLE BETWEEN 19" - 112" (475-2850MM).
- 4 QUAD IS ALWAYS SQUARE. CHOSEN DIMENSION APPLIES TO BOTH LENGTH AND WIDTH.

* 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

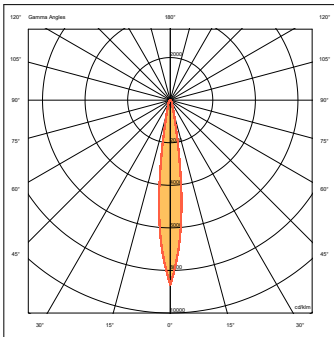
PLEASE CONSULT THE FACTORY FOR PRODUCT WEIGHTS BASED ON CONFIGURATION AND PART NUMBERS.

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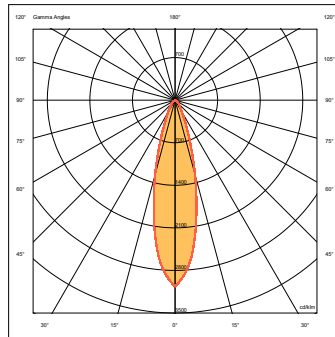
PHOTOMETRICS

*ACTUAL RESULTS PENDING

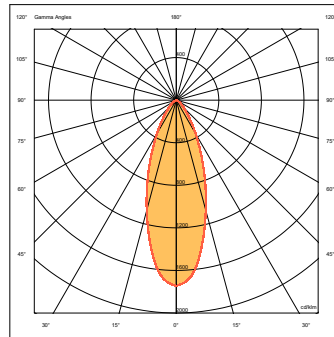
NARROW OPTIC



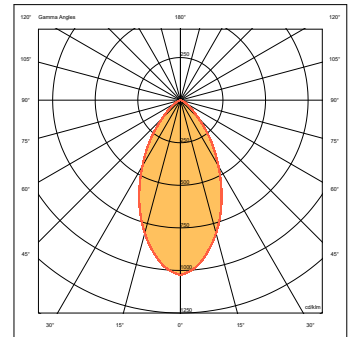
SPOT OPTIC



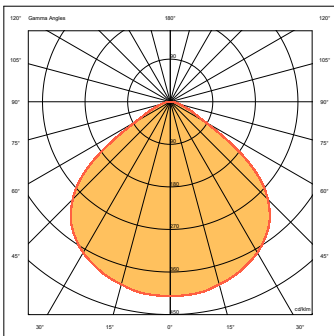
FLOOD OPTIC



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: 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

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. ALUMINUM & 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 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)-; Benzenehexanoic acid, 3,5-bis(1-(1-dimethylethyl)-4-hydroxy-oxido)ester; Octadecanamide, N,N'-bis(2-ethylhexyl)-; Stearic Acid; Titanium dioxide

Living Building Challenge Criteria:

I-13 Red List:

- LBC Red List Free
- LBC Red List Approved
- Declared

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

I-10 Interior Performance: Not Compliant
I-14 Responsible Sourcing: Not Applicable

SAB-0001
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Original Issue Date: 2023

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