

DATE PROJECT FIRM FIXTURE TYPE

## OVERVIEW

Linear 60 is our flagship linear acoustic luminaire - a modern approach to the classic ceiling baffle. Linear 60 advances the state of the art through carefully executed craft, fit and finish. Through the integration of acoustic materials and high-performance LEDs, the Linear 60 is an elegant, comprehensive solution to acoustical and lighting needs. Our commitment to craft shows up in Sabin's signature sewn construction, which enables a robust and simple design. Sabin's family of linear products share a common design language. These products are intended to work together as part of larger arrays, selected according to lighting, acoustic and budgetary requirements.



## SPECIFICATIONS

SERIES	LENGTH <sup>1</sup> (FT)	HEIGHT <sup>1</sup> (IN)	CCT/CRI	CIRCUIT	DIRECT OUTPUT	INDIRECT OUTPUT	CONTROL	DIRECT OPTIC	INDIRECT OPTIC
L-60	3 <sup>2</sup>	6	927	SS SINGLE CIRCUIT	NA NO OUTPUT	NA NO OUTPUT	10 0-10V TO 1%	DL DIFFUSE LENS	BW BATWING NO 120° NO OPTIC
	4	7	930	DC DUAL CIRCUIT	VL 100LM/FT	VL 125 LM/FT			
	5	11	935	(SHARED DIMMING)	LP 200LM/FT	LP 250 LM/FT			
	6	16	940		SP 300 LM/FT	SP 375 LM/FT			
	7	20			HP 400 LM/FT	HP 500 LM/FT			
	8 <sup>5</sup>	23			VH 500 LM/FT	VH 625 LM/FT			
	CL <sup>3</sup>	CH <sup>4</sup>				VVH 800 LM/FT			

1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE SHOWN ON PAGE 2.

2 MINIMUM LENGTH FOR BI-DIRECTIONAL IS 4 FEET.

3 CUSTOM LENGTHS AVAILABLE BETWEEN 2' - 8' IN 1" INCREMENTS.

4 CUSTOM HEIGHTS AVAILABLE BETWEEN 6" - 23" IN 1" INCREMENTS.

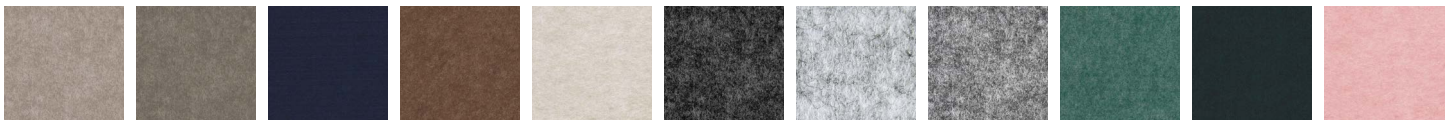
5 8 FOOT LENGTHS ONLY AVAILABLE IN COLORS PUMICE AND OBSIDIAN.

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

9MM FELT COLOR	CORD COLOR	AIRCRAFT CABLE	CANOPY	CEILING HARDWARE
9BR BIRCH	9FL FLINT	BK BLACK	36BK 36" BLACK AC CABLE	BK BLACK
9HZ HAZEL	9JD JADE	WH WHITE	36SLV 36" SILVER AC CABLE	WH WHITE
9SP SAPPHIRE	9PN PINE	SV SILVER	60BK 60" BLACK AC CABLE	CTB9 T-BAR CADDY CLIP, 9/16"
9SA SIENNA	9BS BISQUE	BL BLUE	60SLV 60" SILVER AC CABLE	CTB15 T-BAR CADDY CLIP, 15/16"
9SD SAND	9OB OBSIDIAN	BR BRONZE	120BK 120" BLACK AC CABLE	CTG9 TEGULAR CADDY CLIP, 9/16"
9PM PUMICE		GR GREEN	120SLV 120" SILVER AC CABLE	CTH15 TEGULAR CADDY CLIP, 15/16"
		RD RED		CHS HARD CEILING

## COLOR

### 9MM FELT



BIRCH HAZEL SAPPHIRE SIENNA SAND OBSIDIAN PUMICE FLINT JADE PINE BISQUE

CONTACT THE FACTORY FOR ADDITIONAL COLOR OPTIONS.

EXAMPLE PART NUMBER: L-60-4-16-935-SS-LP-HP-10-DL-BW-9BR-WH-60SLV-WH-CTB9

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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.

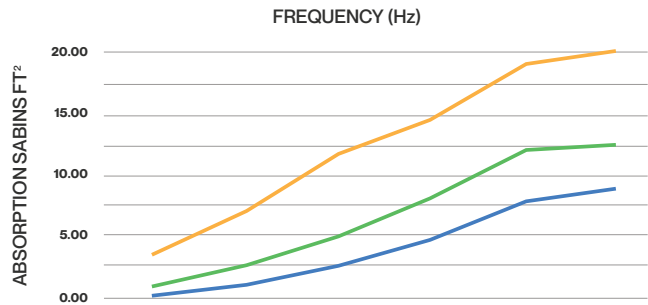
### SABIN LINEAR FAMILY

PROJECTED 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

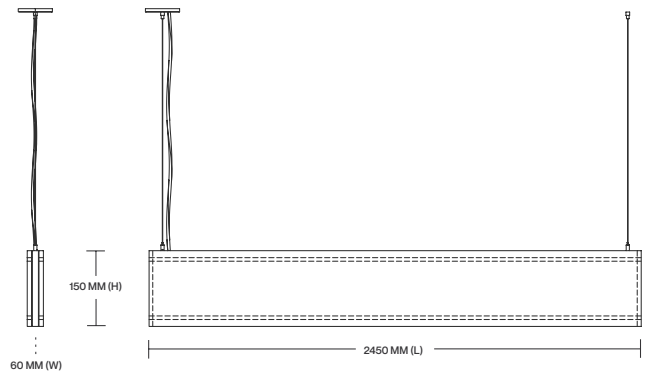


	125	250	500	1000	2000	4000
UNLIT 6x94x1	0.22	1.08	2.69	4.84	7.97	9.04
UNLIT 11x94x1	0.97	2.69	5.27	8.29	12.16	12.70
UNLIT 23x94x1	3.44	7.00	11.84	14.75	19.38	20.24

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	HEIGHT 1 (INCHES)	LENGTH 1 (FEET)	WIDTH 1 (INCHES)
L-60	6" (150MM)	3' (950MM)	2" (60MM)
LINEAR 60	7" (185MM)	4' (1250MM)	
	11" (285MM)	5' (1550MM)	
	16" (400MM)	6' (1875MM)	
	20" (500MM)	7' (2175MM)	
	23" (585MM)	8' (2450MM)	
	CH CUSTOM HEIGHT 2	CL CUSTOM LENGTH 3	CR CONTINUOUS RUN COMING SOON



SEE DIMENSIONS + WEIGHT TABLE FOR LIMITATIONS

1 IMPERIAL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS ARE SHOWN IN MILLIMETERS.  
2 CUSTOM HEIGHTS AVAILABLE BETWEEN 6" - 23" (150-598MM) IN 1" (25MM) INCREMENTS.  
3 CUSTOM LENGTHS AVAILABLE BETWEEN 2' - 8' (650-2450MM) IN 1" (25MM) INCREMENTS.  
4 ILLUMINATED SECTION OF FIXTURE IS 2" (55MM) SHORTER THAN TOTAL FIXTURE LENGTH.

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

## WEIGHT

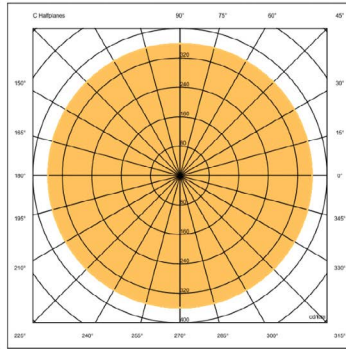
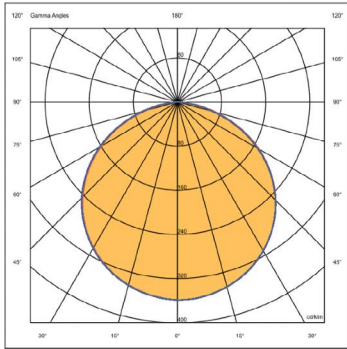
PLEASE CONSULT THE FACTORY FOR PRODUCT WEIGHTS BASED ON CONFIGURATION AND PART NUMBERS

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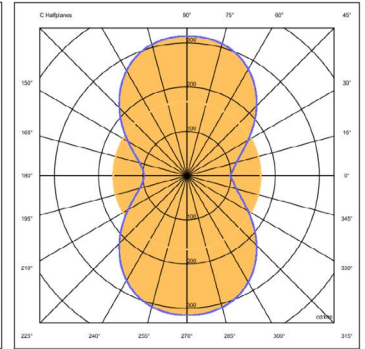
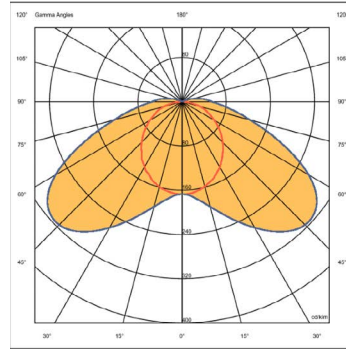
## PHOTOMETRICS

Actual Results Pending

### 120 DEGREE OPTIC



### BATWING OPTIC



### DIFFUSE LENS (DIRECT ONLY)

POWER LEVEL	OUTPUT (LUMENS/FT)	ENERGY (WATTS/FT)	EFFICACY (LPW)	CCT/CRI
VERY LOW	87.75	0.665	131.95	3500/90
LOW	176.5	1.3425	131.47	3500/90
STANDARD	267	2.035	131.20	3500/90
HIGH	360.75	2.74	131.66	3500/90
VERY HIGH	454.75	3.46	131.43	3500/90

\*Actual Results Pending

### BATWING (INDIRECT ONLY)

POWER LEVEL	OUTPUT (LUMENS/FT)	ENERGY (WATTS/FT)	EFFICACY (LPW)	CCT/CRI
VERY LOW	83	0.9025	91.97	3500/90
LOW	167.75	1.83	91.67	3500/90
STANDARD	255.25	2.7775	91.90	3500/90
HIGH	343	3.75	91.47	3500/90
VERY HIGH	434.5	4.7475	91.52	3500/90
VERY VERY HIGH	564.5	6.19	91.20	3500/90

\*Actual Results Pending

### 120 DEGREE NO OPTIC (INDIRECT ONLY)

POWER LEVEL	OUTPUT (LUMENS/FT)	ENERGY (WATTS/FT)	EFFICACY (LPW)	CCT/CRI
VERY LOW	117	0.8325	140.54	3500/90
LOW	237.25	1.6875	140.59	3500/90
STANDARD	360.5	2.5625	140.68	3500/90
HIGH	487	3.46	140.75	3500/90
VERY HIGH	615.5	4.38	140.53	3500/90
VERY VERY HIGH	803.25	5.71	140.67	3500/90

\*Actual Results Pending

### CCT MULTIPLIER

CCT MULTIPLIER	2700K	3000K	3500K	4000K
	0.96	0.975	1	1.03

\*Actual Results Pending

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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 STAMPED AND BENT SHEET METAL ASSEMBLIES, CLAD WITH SEWN RECYCLED PET FELT.

## 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 ±66K ΔUV +0.0004 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 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

EXTRUDED 5/32" (4MM) ACRYLIC LENS DESIGNED FOR EFFICIENT AND HOMOGENEOUS LIGHT DISTRIBUTION WITH SUPERIOR COLOR OVER ANGLE PERFORMANCE.

## 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%

## 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 WARRANTIED 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.