



Specifications

SHADES

9mm thick Sola Felt is a PET material, manufactured with 50% post-consumer recycled content. Sola Felt is a LBC Red List Free labeled product, eligible for LEED, Living Building Challenge, and other green building certification credits. Frosted acrylic diffuser tube with removable acrylic bottom diffuser at bottom (for changing optic kits or relamping E26 version). Contact your local sales rep for material samples.

LIGHTING

LED module with single light emitting source, thermally managed to provide optimal performance. Specifiable in 2700K–4000K in CRI >80 or CRI >90, color accuracy within 3 SDCM. Also available in dim-to-warm.

PoE or PoE+ compatible (depending on required output): Integrates with Power over Ethernet lighting systems through standard, low voltage wires. See wattage table on page 4 for PoE or PoE+ compatibility.

Beam spreads from 28 degree narrow flood to 44 degree wide flood available, achieved with optics that are easily changed in the field. E26 lamp model also available. Source lumens 800, delivered lumens approx 619, 90 CRI, nominal lifetime 15,000 hours.

LUMEN MAINTENANCE

Reported: Calculated:

L90: >55,000 hours L70: >180,000 hours

L80: >120,000 hours EPA TM21 calculator derived

PHOTOMETRICS

Consult factory or website for IES files, tested in accordance with IESNA LM79.

HARDWARE

TGIC-free powder coat. Stainless steel cables with nickel-plated cable gripper allows for adjustable hanging height. Made with RoHS compliant parts.

MOUNTING

Adjustable stainless steel aircraft cable, contact studio for lengths over 20'

ELECTRICAL

Emergency battery output: 6 watts for 90 minutes Maximum Mounting height: 10.5ft. Compatible with Signify Bodine sinusoidal output emergency lighting inverters. Signify Bodine inverters allow designated lighting fixtures to serve as code compliant emergency lighting sources during failure of normal AC power. For additional information see link:

http://www.bodine.com/products/inverter.html

CERTIFICATION

CSA certified to CSA C22.2 No. 250.0, and conforms to UL standard 1598. PoE Compatible fixtures meet UL 2108.

fixtures meet UL 2108

CLEANING & CARE

The best way to remove airborne debris and dust from shades is to periodically vacuum. A Swiffer sheet or feathered duster can also be used for light dusting. To treat liquid stains, remove spills immediately with a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used. Always test an inconspicuous area before applying cleaners to the actual stain.











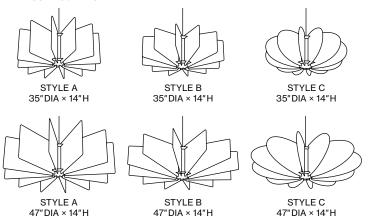




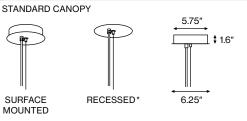
DIMENSIONS Optional spanners between adjacent pendants to create grids

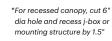
8 FIN CONFIGURATION STYLE A STYLE B STYLE C 35"DIA × 14"H 35" DIA × 14" H 35" DIA × 14" H STYLE A STYLE B STYLE C 47" DIA × 14" H 47" DIA × 14" H 47" DIA × 14" H

12 FIN CONFIGURATION

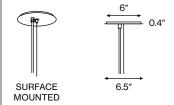


CEILING CONNECTION

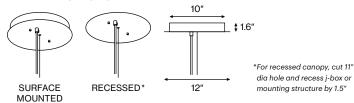




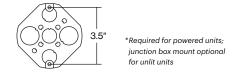
ULTRA SHALLOW CANOPY (E26 ONLY)



EM BATTERY OPTION ONLY



4" OCTAGONAL JUNCTION BOX* (BY OTHERS)



CANOPY / DRESS PLATE FINISH OPTIONS





BLACK/ **BLACK**

WHITE/ WHITE



FELT COLOR OPTIONS















LIGHT DISTRIBUTION

Consult factory or lightart.com for IES files, tested in accordance with IESNA LM79



28° NARROW FLOOD LUMINOUS FLUX: 2488LM **INPUT POWER: 25W** SPACING CRITERION: 0.48

Testing performed with 3500K / 80CRI configuration



44° WIDE FLOOD LUMINOUS FLUX: 2133LM INPUT POWER: 25W SPACING CRITERION: 0.74

Testing performed with 3500K / 80CRI configuration

PERFORMANCE

Based on 3500K / 80CRI / NFL configuration (HP light core) and 3500K / 80CRI for E26 lamp

NOMINAL LUMEN OUTPUT	DELIVERED LUMENS	INPUT POWER (W)	EFFICACY (LM/W)	POE COMPATIBILITY	OUTPUT / LED DRAW WATTAGE (for use w/ POE)
600 (E26 A-LAMP)	619	8.8	72	N/A	N/A
900	893	8.0	111	POE & POE+	6.8
1000	1050	9.5	110	POE & POE+	8.1
1500	1533	14.6	105	POE & POE+	12.4
2000	2005	19.6	102	POE+ONLY	16.7
2500	2488	25.0	100	POE+ONLY	21.4

OPTICAL CHARACTERISTICS

Based on measurement data

	BEAM ANGLE	SPACING CRITERION
NARROW FLOOD	28°	0.48
FLOOD	36°	0.61
WIDE FLOOD	44°	0.74

OUTPUT MULTIPLIERS

Based on measurement data

COLOR TEMPERATURE/CRI	MULTIPLIER
2700K / 80	0.94
2700K / 90	0.77
3000K / 80	0.98
3000K / 90	0.82
3500K / 80	1.00
3500K / 90	0.84
4000K / 80	1.02
4000K / 90	0.87
WARM DIM 1830 / 90	0.72

OPTIC	MULTIPLIER
30°	1.00
54°	0.93
78°	0.86

OUTPUT MULTIPLIERS INSTRUCTIONS

Adjusted Value = $L_1 \times C_m \times O_m$

 L_1 = (Lumen output at 3500K / 80 CRI) × C_m = (Color Temp. / CRI Multiplier) ×

 $O_m = (Optic Multiplier)$

Example:

900LM / 3000K / 80CRI / FL Configuration $(900) \times (0.98) \times (0.86) = 759LM$















SABINS PER FIXTURE Equivalent square feet of perfect absorption

CENTER FREQUENCY (HZ)	ECHO 35-12	ECHO 47-12
100	1.05	1.90
125	0.80	4.09
160	1.99	3.80
200	3.24	7.38
250	5.58	9.25
315	5.57	12.19
400	6.57	13.66
500	6.96	14.31
630	7.35	15.15
800	7.53	15.81
1000	7.96	16.96
1250	8.23	18.03
1600	8.98	19.27
2000	9.85	21.49
2500	10.40	22.25
3150	10.87	23.53
4000	11.16	24.02
5000	11.00	22.97
AVERAGE OF 250, 500, 1000, 2000 HZ	7.59	15.50
NRC PER FIXTURE (CIRCULAR FOOTPRINT)	1.15	1.30

NRC for Echo system, with spanners, over entire installation footprint: 0.80-1.00

Absorption

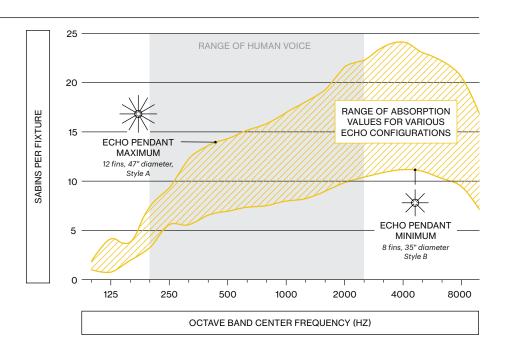
NRC per Fixture: 1.15-1.30 Absorption per Fixture: 7.59-15.50 Sabins

Average of values taken at 250, 500, 1000, and 2000 Hz

NRC for Echo system, with spanners, over entire installation footprint: 0.80 - 1.00

The C-style fixtures have not been laboratory tested. The surface area of the C-style fins and spanners meet or slightly exceed the B-style fixtures, we expect similar acoustical performance.

The acoustic testing of Echo was conducted at NVLAP accredited laboratories and meets ISO 354 and ASTM C423. Formal test reports are available upon request.





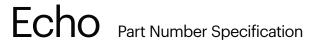












SPECIFICATION CODE Example: 2 QTY ACC-SHPE-ECHO-EALT12-B-NI-EP-835CK-2000LM-NFL-LV01-STD-WPC-WH				
ACC-SHPE-ECHO				

QTY.		0	2	3	4	6	6	0	8	9	0	0
	rder Echo fixture(s). For ed I choices; additional lead t				and ente	r in the	corresponding	box above.				
1 DIAMETER-FI	N #											
E358 E478 EALT8	E358 35" Dia 8 Fins		4	.478 7″ Dia Fins		—	EALT8 Alternating 47" & 3 8 Fins	35″ Dia				
E3512 E41712 EALT12	E3512 35" Dia 12 Fins		4	5 4712 7″ Dia 2 Fins		\succeq	EALT12 Alternating 47" & 3 12 Fins	85″ Dia				
2 FIN STYLE All	fins 14" in height											
☐ A ☐ B	A FINS 35" Dia 47" Dia		. 3	3 FINS 5″ Dia 7″ Dia			C FINS 35″ Dia 47″ Dia					
С	A SPANNEF for grids	as [SPANNERS or Grids			C SPANNERS for Grids					
FIN COLOR												
EB NF	EBONY NIGHTFALL	☐ EN		EMER.			SF JP	SAFF JASF	FRON			
CA	CAST	Dr	(DUSK			AS	ARIE	S			
☐ ML	MINERAL STEEL	ST		STEEL PLATII			☐ MU	OCH MUS	RE TARD			
AR	ARMOR	SL		SILT			СТ	CITR				
□ NI	NICKEL	□ DV		Secretary and the second	WOOD							
ZN	ZINC		l	DUNE								
4 ARRANGEMEN	IT Grids feature pendants 48"	on center										
		CHO PEND	ANT	CUSTOM	GRID EXA	AMPLES	6					
EP CG*	CUSTOM GRID	*										
					*	>		*		*		
				SQUAR	E GRID	RU	NNING BOND	TI	RIANGLE GIF	RD		

CONTINUE TO NEXT PAGE TO COMPLETE SPECIFICATION

*Indicates modified choices; additional lead times and/or costs may apply.













CONTINUE SPECIFICATION

5 LED CRI/CCT				6	NOMINAL DELIV	ERED LUMENS	Warm dim onl	y available in 1500LM	
827CK	80 CRI / 2700K 80 CRI / 3000K 80 CRI / 3500K 80 CRI / 4000K 90 CRI / 2700K	930CK 935CK 1830W E26AL	90 CRI / 3000K 90 CRI / 3500K WARM DIMMING 90 CRI 3000K to 1800K Dimming Ra E26 BASE A LAMP 120V of Source Lumens 800lm, 619lm delivered 3000K > 90 Co	tl ange only CRI,	900LM 1000LM 1500LM 2000LM 2500LM 600LM	900 LUMEN 1000 LUMEN 1500 LUMEN 2000 LUMEN 2500 LUMEN E26 BASE A L	АМР	y druindsie in recottin	
NFL FL WFL	NARROW FLOOD OF FLOOD OPTION (36) WIDE FLOOD OPTION (26) BASE A LAMP	6°)			LV01 LT02 LP01 LVP EBM	ELV FORWARD, LOW VOLTAGE Power supply by oth 0-10V 1% DIMM, Max Lumen ouput I. Universal Input (Dir.	LING/TRIAC /REVERSE F POE No drive hers. Not availe ING INTEGR imited—consul m on 120V for T	C – 5% DIMMING 120v only PHASE – 1% DIMMING 120v on	
SUSPENSION STD	12" – 96"			/HITE		11 PO	WH	Cord color dictates visible metal of WHITE	olor
EXT*	12" – 240"		RWPC	LACK ECESSED ECESSED		L	BK	BLACK	









