

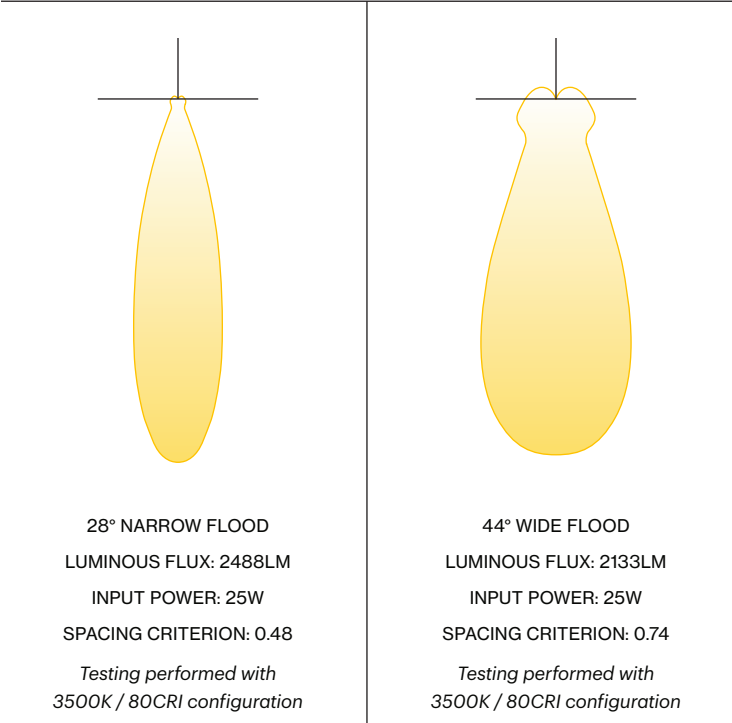


Specifications

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.	HARDWARE	TGIC-free powder coat. Stainless steel cables with nickel-plated cable gripper allows for adjustable hanging height. Made with RoHS compliant parts.
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.	MOUNTING	Adjustable stainless steel aircraft cable, contact studio for lengths over 20'
LUMEN MAINTENANCE	Reported: L90: >55,000 hours Calculated: L70: >180,000 hours L80: >120,000 hours <i>EPA TM21 calculator derived</i>	ELECTRICAL	Emergency battery output: 6 watts for 90 minutes Maximum Mounting height: 15ft. 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
PHOTOMETRICS	Consult factory or website for IES files, tested in accordance with IESNA LM79.	CERTIFICATION	CSA certified to CSA C22.2 No. 250.0, and conforms to UL standard 1598. PoE Compatible 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.

LIGHT DISTRIBUTION

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



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

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

OUTPUT MULTIPLIERS INSTRUCTIONS

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

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

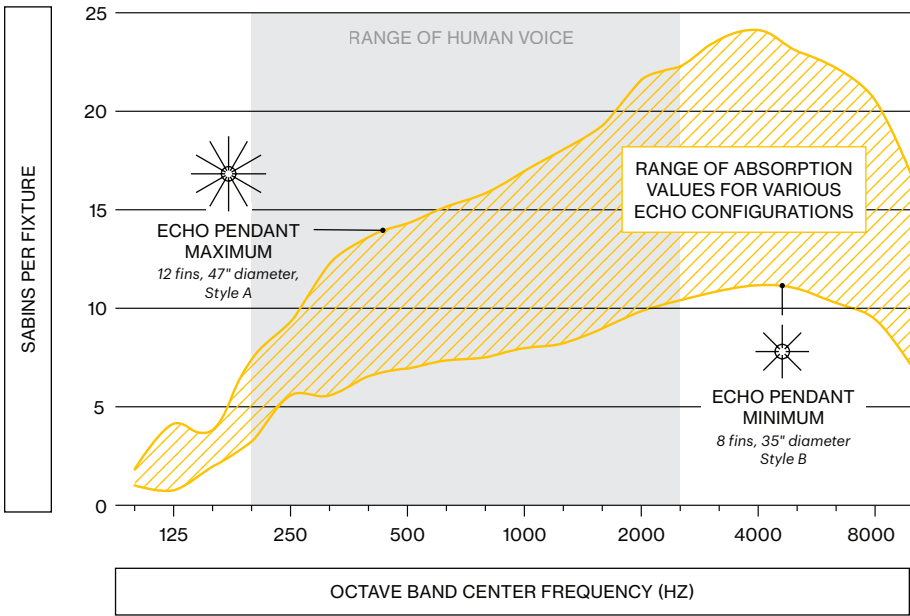
NRC per Fixture: 1.15-1.30
Absorption per Fixture: 7.59-15.50 Sabins

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- - - - - - - - - - - - - - - - - -

QTY.

ACC-SHPE-ECHO-

1

2

3

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11

Complete form to order Echo fixture(s). For each number, make one selection and enter in the corresponding box above.
*Indicates modified choices; additional lead times and/or costs may apply.

1 DIAMETER – FIN #

☐ E358

☐ E478

☐ EALT8

☐ E3512

☐ E41712

☐ EALT12

 E358
35" Dia
8 Fins

 E478
47" Dia
8 Fins

 EALT8
Alternating 47" & 35" Dia
8 Fins

 E3512
35" Dia
12 Fins

 E4712
47" Dia
12 Fins

 EALT12
Alternating 47" & 35" Dia
12 Fins

2 FIN STYLE All fins 14" in height

☐ A

☐ B

☐ C

 A FINS
35" Dia
47" Dia

 B FINS
35" Dia
47" Dia

 C FINS
35" Dia
47" Dia

 A SPANNERS
for grids

 B SPANNERS
for Grids

 C SPANNERS
for Grids

3 FELT COLOR

COLOR OPTIONS

☐ EB

☐ NF

☐ CA

☐ SLT

☐ ML

☐ STL

☐ AR

☐ NI

☐ ZN

EBONY

NIGHTFALL

CAST

SILT

MINERAL

STEEL

ARMOR

NICKEL

ZINC

☐ EM

☐ BU

☐ CI

☐ JP

☐ SF

☐ OCH

☐ MU

☐ AS

☐ CT

EMERALD

BURGUNDY

CINNAMON

JASPER

SAFFRON

OCHRE

MUSTARD

ARIES

CITRINE

☐ LC

☐ AD

☐ DK

☐ STB

☐ PT

☐ DW

☐ DN

☐ VL

LILAC

ADMIRAL

DUSK

STEELBLUE

PLATINUM

DRIFTWOOD

DUNE

VANILLA

☐ DWA

☐ IOK

☐ WA

☐ BA

WALNUT

IRON OAK

CARMEL OAK

RICH BAMBOO

4 ARRANGEMENT Grids feature pendants 48" on center

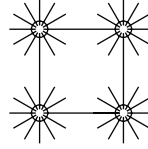
☐ EP

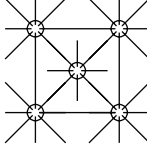
☐ CG*

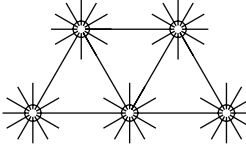
ECHO PENDANT

CUSTOM GRID









SQUARE GRID

RUNNING BOND

TRIANGLE GRID

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

CONTINUE SPECIFICATION

5 LED CRI/CCT

☐ 827CK	80 CRI / 2700K	☐ 930CK	90 CRI / 3000K
☐ 830CK	80 CRI / 3000K	☐ 935CK	90 CRI / 3500K
☐ 835CK	80 CRI / 3500K	☐ 1830W	WARM DIMMING 90 CRI 3000K to 1800K Dimming Range
☐ 840CK	80 CRI / 4000K		
☐ 927CK	90 CRI / 2700K	☐ E26AL	E26 BASE A LAMP 120V only Source Lumens 800lm, 619lm delivered 3000K > 90 CRI, Not available in PoE.

6 NOMINAL DELIVERED LUMENS Warm dim only available in 1500LM

☐ 900LM	900 LUMEN
☐ 1000LM	1000 LUMEN
☐ 1500LM	1500 LUMEN
☐ 2000LM	2000 LUMEN
☐ 2500LM	2500 LUMEN
☐ 600LM	E26 BASE A LAMP 600 delivered lumens only

7 BEAM SPREAD Beam spread kits available—contact LightArt for more information

☐ NFL	NARROW FLOOD OPTION (28°)
☐ FL	FLOOD OPTION (36°)
☐ WFL	WIDE FLOOD OPTION (44°)
☐ E26S	E26 BASE A LAMP

8 DIMMING AND CONTROLS

☐ LV01	0-10V – 1% DIMMING 120 & 277V
☐ LT02	LEADING/TRAILING/TRIAC – 5% DIMMING 120v only
☐ LP01	ELV FORWARD/REVERSE PHASE – 1% DIMMING 120v only
☐ LVP	LOW VOLTAGE POE No driver provided for POE. Power supply by others. Not available with E26 Base A lamp.
☐ EBM	0-10V 1% DIMMING INTEGRATED EM BATTERY OPTION Max Lumen output limited—consult LightArt. Not available for E26. Universal Input (Dim on 120V for TRIAC/ELV & 120/277V for 0-10V)
☐ E26	E26 BASE A LAMP Only compatible with 120V ELV Dimming

9 SUSPENSION

☐ STD	12" – 96"
☐ EXT*	12" – 240"

10 CANOPY OPTIONS

☐ WPC	WHITE
☐ BPC	BLACK
☐ RWPC	RECESSED WHITE
☐ RBPC	RECESSED BLACK

11 POWER CORD Cord color dictates visible metal color

☐ WH	WHITE
☐ BK	BLACK