Empire Shade Overview

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.

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 3 for PoE or PoE+ compatibility.

E26 globe lamp models also available:
Sizes XS & S: Source lumens 500, delivered lumens approx 415, 90 CRI, nominal lifetime 25,000 hours.
Sizes M, L & XL: Source lumens 950, delivered lumens approx 788, 80 CRI, nominal lifetime 15,000 hours.

DISTRIBUTION

Beam spreads from 30 degree narrow flood to 78 degree wide flood available, achieved with optics that are easily changed in the field.

LUMEN MAINTENANCE

Reported:
L90: >55,000 hours

Calculated:
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 cable with nickel-plated cable gripper allows for adjustable hanging height. Made with RoHS compliant parts.

MOUNTING

Canopy mounts to 4" octagonal junction box or appropriate alternative

ELECTRICAL

Emergency battery output: 10 watts for 90 minutes. Maximum Mounting height: 14ft. 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.

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.

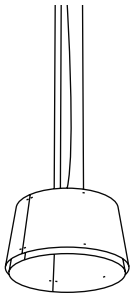
WARRANTY

5 year warranty on all standard components.

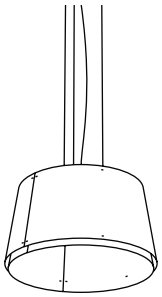
MADE IN USA WITH GLOBAL AND DOMESTIC PRODUCTS

Empire Shade Fixture Options

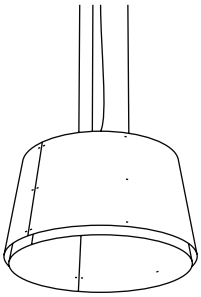
DIMENSIONS



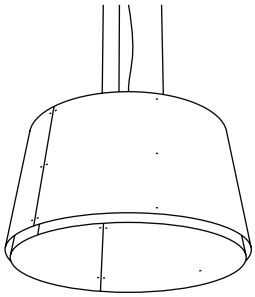
XS
17″DIA × 10″H



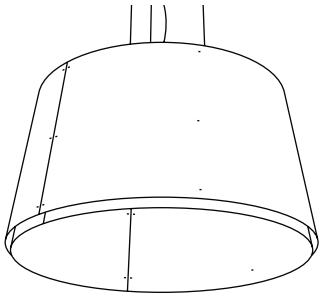
S
22″DIA × 12″H



M
27″DIA × 15″H



L
34″DIA × 19″H

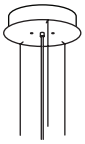


XL
42″DIA × 23″H

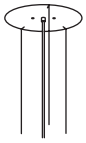
CEILING CONNECTIONS

STANDARD CANOPY

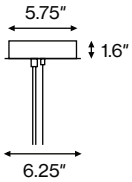
For recessed canopy, cut 6″ dia hole and recess j-box or mounting structure by 1.5″



SURFACE MOUNTED

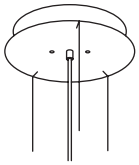


RECESSED

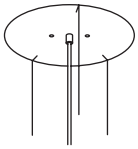


EM BATTERY OPTION ONLY

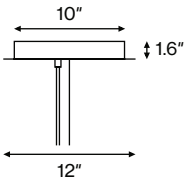
For recessed canopy, cut 6″ dia hole and recess j-box or mounting structure by 1.5″



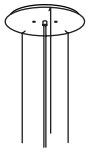
SURFACE MOUNTED



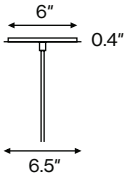
RECESSED



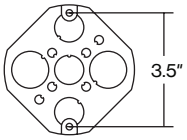
ULTRA SHALLOW CANOPY (E26 ONLY)



SURFACE MOUNTED



4″ OCTAGONAL JUNCTION BOX (BY OTHERS)



Required for powered units; optional for unlit units

CANOPY/DRESS PLATE FINISH OPTIONS

BLACK

WHITE

FELT COLOR & PATTERN OPTIONS

COLOR OPTIONS

EBONY, CAST, MINERAL, STEEL, ARMOR, NICKEL, ZINC

NIGHTFALL, ADMIRAL, DUSK, STEELBLUE, PLATINUM, OCHRE, MUSTARD

LILAC, BURGUNDY, CINNAMON, SAFFRON, JASPER, ARIES, CITRINE

EMERALD, SILT, DRIFTWOOD, DUNE, VANILLA

PATTERN OPTIONS

WALNUT, IRON OAK

CARMEL OAK, RICH BAMBOO

Declare.

Sola Felt, Clario, Hush Clad, and Tetria Acoustic Solutions
3form

Final Assembly: Salt Lake City, Utah, USA
Life Expectancy: 20 Year(s)
End of Life Options: Salvageable/Reusable in Its Entirety, Take Back Program (Reclaim, Salt Lake City, Utah)
EU CoC Screened: Does Not Contain

Ingredients:
poly(ethylene terephthalate); 5-(hydroxyphenylphosphinyl)propanoic acid; Titanium dioxide; Carbon black; Spinning finish

Living Building Challenge Criteria: Compliant

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: CDPH Standard Method v1.1-2010
I-14 Responsible Sourcing: Not Applicable

TFH-0001
EXP. 01 OCT 2022
SCREENED: 21 SEP 2021
Original Issue Date: 2018

INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

align Declare. Red List Free Ingredients POE TITLE 24

MADE IN USA WITH GLOBAL AND DOMESTIC PRODUCTS

Empire Shade Acoustic Details

SABINS PER FIXTURE *Equivalent square feet of perfect absorption*

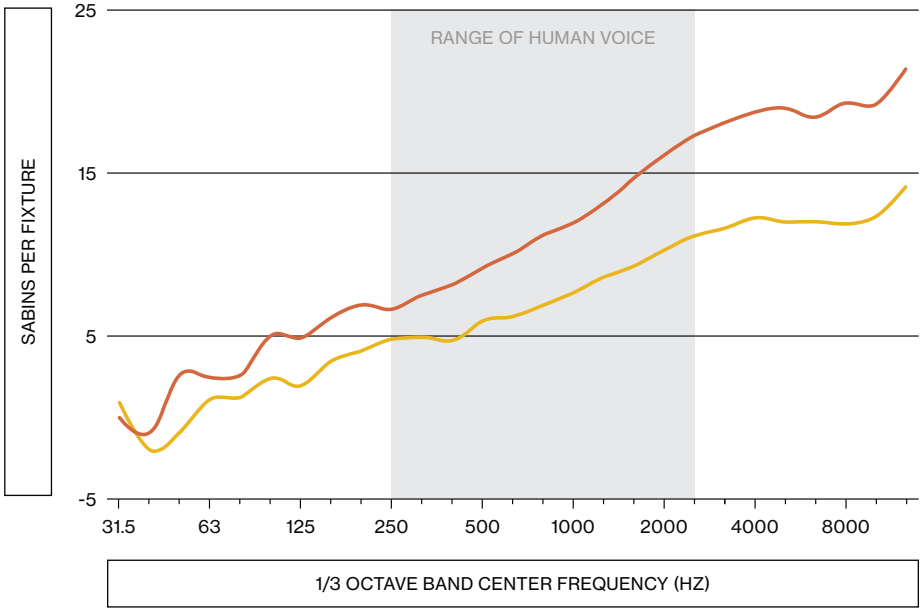
CENTER FREQUENCY (HZ)	27DIA 14H EMPIRE (M)	34DIA 19H EMPIRE (L)
100	2.44	5.04
125	1.97	4.93
160	3.50	6.15
200	4.16	6.93
250	4.84	6.71
315	4.98	7.53
400	4.74	8.19
500	5.95	9.23
630	6.29	10.12
800	6.94	11.24
1000	7.69	12.00
1250	8.66	13.20
1600	9.36	14.73
2000	10.35	16.19
2500	11.26	17.38
3150	11.69	18.14
4000	12.35	18.84
5000	12.07	19.11
AVERAGE OF 250, 500, 1000, 2000	7.10	11.12
EQUIVALENT SQ FT OF ACT (NRC 0.90)	7.90	12.40
EQUIVALENT SQ FT OF ACT (NRC 0.70)	10.10	15.90

Absorption

NRC per Fixture: 0.90
Average of values taken at 250, 500, 1000, and 2000 Hz

The NRC of felt depends on its configuration. LightArt fixtures utilize deep airspaces and multiple layers to keep NRC ratings high for all exposed felt surfaces.

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

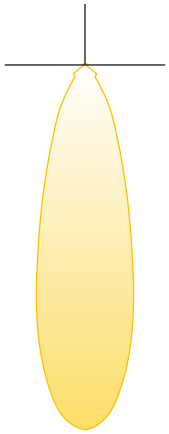


MADE IN USA WITH GLOBAL AND DOMESTIC PRODUCTS

Empire Shade Lighting Details

LIGHT DISTRIBUTION OPTIONS

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



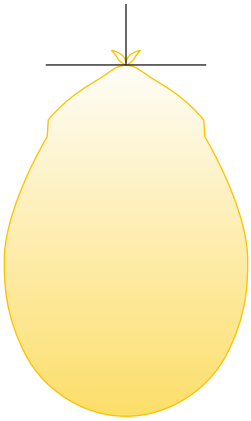
30° NARROW FLOOD

LUMINOUS FLUX: 2678LM

INPUT POWER: 25W

SPACING CRITERION: 0.50

Testing performed with 3500K / 80CRI configuration



78° WIDE FLOOD

LUMINOUS FLUX: 2373LM

INPUT POWER: 25W

SPACING CRITERION: 1.08

Testing performed with 3500K / 80CRI configuration

PERFORMANCE

Based on 3500K / 80CRI / NFL / M Size configuration (HP light core) and 300 for E26 lamp

NOMINAL LUMEN OUTPUT	DELIVERED LUMENS	INPUT POWER (W)	EFFICACY (LM/W)	POE COMPATIBILITY	OUTPUT/LED DRAW WATTAGE (FOR USE W/ POE)
415 (E26 XS, S)	415	7.0	59	N/A	N/A
780 (E26 M, L, XL)	788	12.0	66	N/A	N/A
700	718	7.3	99	POE & POE+	7.3
800	839	8.8	95	POE & POE+	8.8
900	959	9.4	91	POE & POE+	11.5
1000	1003	8.4	119	POE & POE+	7.2
1600	1650	14.6	113	POE & POE+	12.4
2100	2159	19.6	110	POE+ ONLY	16.7
2600	2678	25.0	107	POE+ ONLY	21.4

OPTICAL CHARACTERISTICS

Based on measurement data

	BEAM ANGLE	SPACING CRITERION
NARROW FLOOD	30°	0.50
FLOOD	54°	0.79
WIDE FLOOD	78°	1.08

OUTPUT MULTIPLIERS

Based on measurement data

COLOR TEMPERATURE / CRI	MULTIPLIER
2700K / 80 2700K / 90	0.93 0.78
3000K / 80 3000K / 90	0.97 0.81
3500K / 80 3500K / 90	1.00 0.83
4000K / 80 4000K / 90	1.01 0.86
WARM DIM 1830 / 90	0.72

OPTIC	MULTIPLIER
30°	1.00
54°	0.94
78°	0.89

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:
850LM / 3000K / 80CRI / FL Configuration
(850) × (0.97) × (0.92) = 2206LM

MADE IN USA WITH GLOBAL AND DOMESTIC PRODUCTS

Empire Shade Part Number Specification

ACOUSTIC COLLECTION

SPECIFICATION CODE *Example: 2 QTY ACC-SHPE-EMP-22D-CT-ZN2-STD-BPC-BK-BPF-E26GL-E26LM-E26S-E26*

☐ ACC-SHPE-EMP-☐(1)-☐(2)-☐(3)-☐(4)-☐(5)-☐(6)-☐(7)-☐(8)-☐(9)-☐(10)-☐(11)

QTY.

Complete form to order Empire Shade 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 SIZE *Nominal*

☐ 17D	17″ DIAMETER	☐ 34D	34″ DIAMETER
☐ 22D	22″ DIAMETER	☐ 42D	42″ DIAMETER
☐ 27D	27″ DIAMETER		

2 OUTER FELT COLOR

COLOR OPTIONS

☐ EB	EBONY	☐ EM	EMERALD	☐ LC	LILAC	☐ DWA	WALNUT
☐ NF	NIGHTFALL	☐ BU	BURGUNDY	☐ AD	ADMIRAL	☐ IOK	IRON OAK
☐ CA	CAST	☐ CI	CINNAMON	☐ DK	DUSK	☐ WA	CARMEL OAK
☐ SLT	SILT	☐ JP	JASPER	☐ STB	STEELBLUE	☐ BA	RICH BAMBOO
☐ ML	MINERAL	☐ SF	SAFFRON	☐ PT	PLATINUM		
☐ STL	STEEL	☐ OCH	OCHRE	☐ DW	DRIFTWOOD		
☐ AR	ARMOR	☐ MU	MUSTARD	☐ DN	DUNE		
☐ NI	NICKEL	☐ AS	ARIES	☐ VL	VANILLA		
☐ ZN	ZINC	☐ CT	CITRINE				

PATTERN OPTIONS

3 INNER FELT COLOR

COLOR OPTIONS

☐ EB	EBONY	☐ EM	EMERALD	☐ LC	LILAC	☐ DWA	WALNUT
☐ NF	NIGHTFALL	☐ BU	BURGUNDY	☐ AD	ADMIRAL	☐ IOK	IRON OAK
☐ CA	CAST	☐ CI	CINNAMON	☐ DK	DUSK	☐ WA	CARMEL OAK
☐ SLT	SILT	☐ JP	JASPER	☐ STB	STEELBLUE	☐ BA	RICH BAMBOO
☐ ML	MINERAL	☐ SF	SAFFRON	☐ PT	PLATINUM		
☐ STL	STEEL	☐ OCH	OCHRE	☐ DW	DRIFTWOOD		
☐ AR	ARMOR	☐ MU	MUSTARD	☐ DN	DUNE		
☐ NI	NICKEL	☐ AS	ARIES	☐ VL	VANILLA		
☐ ZN	ZINC	☐ CT	CITRINE				

PATTERN OPTIONS

4 SUSPENSION

☐ STD	12″ – 96″
☐ EXT*	24″ – 240″

5 CANOPY OPTIONS

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

6 POWER CORD

☐ WH	WHITE
☐ BK	BLACK

Cord finish will match canopy, unless otherwise specified

7 FRAME COLOR

☐ WPF	WHITE
☐ BPF	BLACK

CONTINUE TO NEXT PAGE TO COMPLETE SPECIFICATION

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

align Declare Red List Free Ingredients POE TITLE 24 MADE IN USA WITH GLOBAL AND DOMESTIC PRODUCTS

Empire Shade Part Number Specification

CONTINUE SPECIFICATION

8 LED CRI/CCT

☐ 827CK	80 CRI / 2700K	☐ 927CK	90 CRI / 2700K	☐ E26GL	E26 BASE GLOBAL LAMP
☐ 830CK	80 CRI / 3000K	☐ 930CK	90 CRI / 3000K		
☐ 835CK	80 CRI / 3500K	☐ 935CK	90 CRI / 3500K		
☐ 840CK	80 CRI / 4000K	☐ 1830W	WARM DIMMING 90 CRI *3000K to 1800K Dimming Range*		

9 NOMINAL DELIVERED LUMENS

ONLY AVAILABLE IN SIZES XS, S
Warm Dim only available in 700LM

☐ 700LM	700 LUMEN
☐ 800LM	800 LUMEN
☐ 900LM	900 LUMEN

ONLY AVAILABLE IN SIZES M, L, XL
Warm Dim only available in 1600LM

☐ 1000LM	1000 LUMEN
☐ 1600LM	1600 LUMEN
☐ 2100LM	2100 LUMEN
☐ 2600LM	2600 LUMEN

AVAILABLE IN ALL SIZES
XS, S: 415LM delivered 3000K >90 CRI, 120V only
M, L, XL: 788LM delivered 3000K >80 CRI, 120V only

☐ E26LM	E26 BASE GLOBAL LAMP LUMENS

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

☐ NFL	NARROW FLOOD OPTION (21°)
☐ FL	FLOOD OPTION (39°)
☐ WFL	WIDE FLOOD OPTION (69°)
☐ E26S	E26 BASE A LAMP

11 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 ouput 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*

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

MADE IN USA WITH GLOBAL AND DOMESTIC PRODUCTS