

# Trapezoid Shade Overview

ACOUSTIC COLLECTION



## Specifications

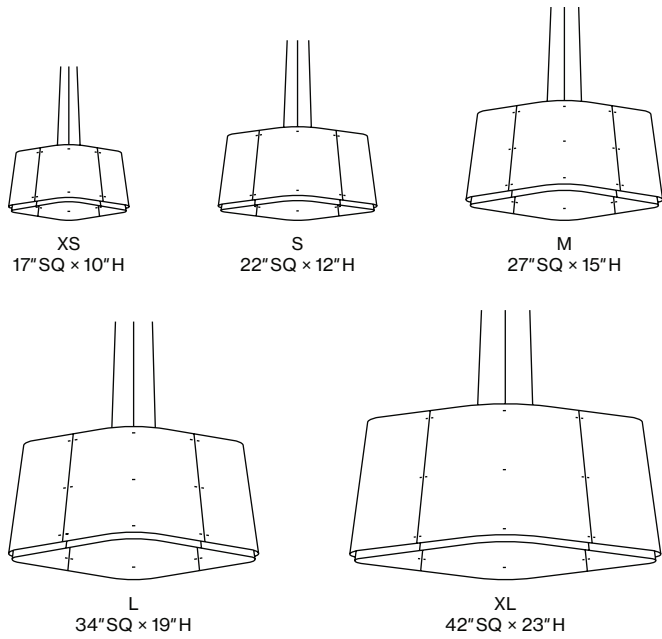
<b>SHADES</b>	<p>9mm thick Sola Felt is a PET material, manufactured with 50% post-consumer recycled content. Sola Felt is a LBC Red List Free labeled product, eligible for LEED, Living Building Challenge, and other green building certification credits.</p>	<b>HARDWARE</b>	<p>TGIC-free powder coat. Stainless steel cable with nickel-plated cable gripper allows for adjustable hanging height. Made with RoHS compliant parts.</p>								
<b>LIGHTING</b>	<p>LED module with single light emitting source, thermally managed to provide optimal performance. Specifiable in 2700K–4000K in CRI &gt;80 or CRI &gt;90, color accuracy within 3 SDCM. Also available in dim-to-warm.</p> <p>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.</p> <p>E26 globe lamp models also available:          Sizes XS &amp; S: Source lumens 500, delivered lumens approx 415, 90 CRI, nominal lifetime 25,000 hours.          Sizes M, L &amp; XL: Source lumens 950, delivered lumens approx 788, 80 CRI, nominal lifetime 15,000 hours.</p>	<b>MOUNTING</b>	<p>Canopy mounts to 4" octagonal junction box or appropriate alternative</p>								
<b>DISTRIBUTION</b>	<p>Beam spreads from 30 degree narrow flood to 78 degree wide flood available, achieved with optics that are easily changed in the field.</p>	<b>ELECTRICAL</b>	<p>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: <a href="http://www.bodine.com/products/inverter.html">http://www.bodine.com/products/inverter.html</a></p>								
<b>LUMEN MAINTENANCE</b>	<table border="0"> <tr> <td>Reported:</td> <td>Calculated:</td> </tr> <tr> <td>L90: &gt;55,000 hours</td> <td>L70: &gt;180,000 hours</td> </tr> <tr> <td></td> <td>L80: &gt;120,000 hours</td> </tr> <tr> <td></td> <td><i>EPA TM21 calculator derived</i></td> </tr> </table>	Reported:	Calculated:	L90: >55,000 hours	L70: >180,000 hours		L80: >120,000 hours		<i>EPA TM21 calculator derived</i>	<b>CERTIFICATION</b>	<p>CSA certified to CSA C22.2 No. 250.0, and conforms to UL standard 1598. PoE Compatible fixtures meet UL 2108.</p>
Reported:	Calculated:										
L90: >55,000 hours	L70: >180,000 hours										
	L80: >120,000 hours										
	<i>EPA TM21 calculator derived</i>										
<b>PHOTOMETRICS</b>	<p>Consult factory or website for IES files, tested in accordance with IESNA LM79</p>	<b>CARE</b>	<p>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.</p>								
		<b>WARRANTY</b>	<p>5 year warranty on all standard components.</p>								



# Trapezoid Shade Fixture Options

ACOUSTIC COLLECTION

## DIMENSIONS



## FELT COLOR OPTIONS



**Declare.**

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

Final Assembly: Salt Lake City, Utah, USA  
 Life Expectancy: 20 Years  
 End of Life Options: Salvageable/Recyclable in its Entirety, Take Back Program (Optional, Salt Lake City, Utah)  
 EU CoC Screened: Does Not Contain

Ingredients:

polyethylene terephthalate; 3-hydroxyphenylphosphorylpropionic acid; Titanium dioxide; Carbon black; Sprinkling finish

Living Building Challenge Criteria: Compliant

1-13 Red List:
 

- 1-13 Red List Free
- 1-13 Red List Approved
- 1-13 Red List Declared

1-13 Red List:
 

- 1-13 Declared: 100% at 100ppm
- VOC Content: Not Applicable

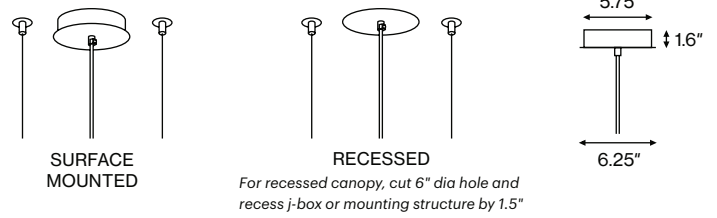
1-13 Red List Performance: C2PA Standard Method v13-2010  
 1-14 Responsible Sourcing: Not Applicable

TFM-0003  
 EXPIRES: 31 OCT 2022  
 SCREENED: 21 SEP 2021  
 Original Issue Date: 2019

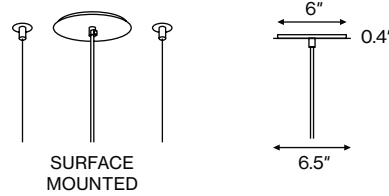
INTERNATIONAL LIVING FUTURE INSTITUTE® [livingfuture.org/declare](http://livingfuture.org/declare)

## CEILING CONNECTION

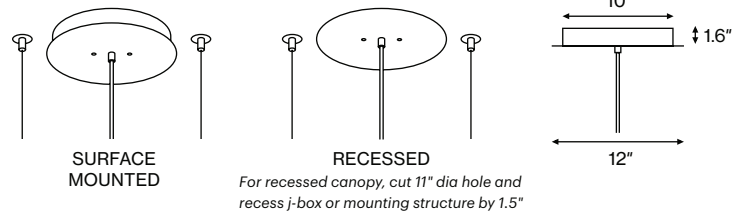
### STANDARD CANOPY



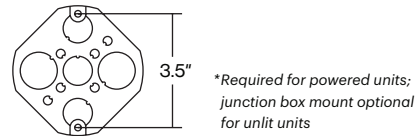
### ULTRA SHALLOW CANOPY (E26 ONLY)



### EM BATTERY OPTION ONLY



### 4" OCTAGONAL JUNCTION BOX\* (BY OTHERS)



### CANOPY / DRESS PLATE FINISH OPTIONS



# Trapezoid Shade Acoustic Details

ACOUSTIC COLLECTION

**SABINS PER FIXTURE** *Equivalent square feet of perfect absorption*

CENTER FREQUENCY (HZ)	27 DIA 14 H TRAPEZOID (M)	34 DIA 19 H TRAPEZOID (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

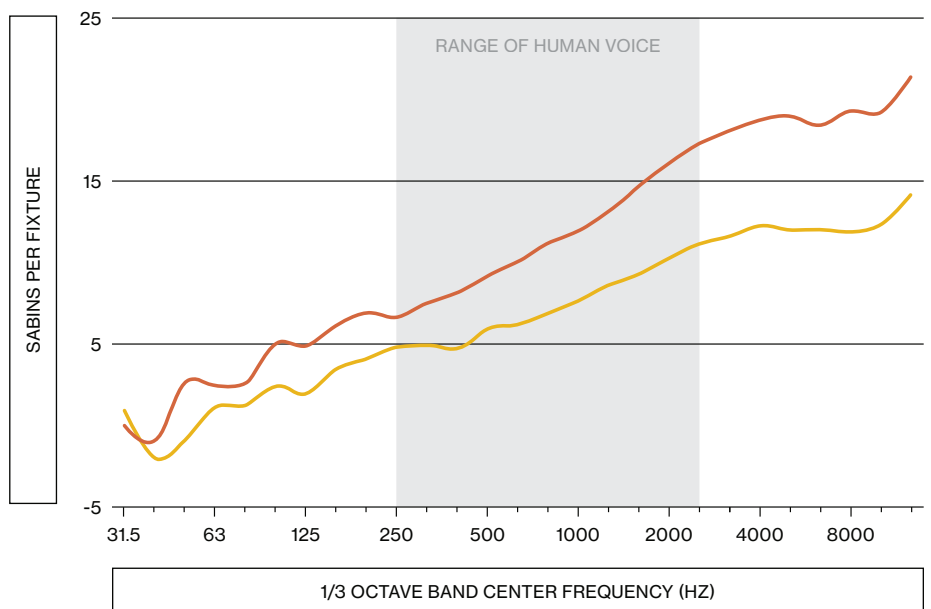
## Absorption

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.

— 34 DIA 19 H TRAPEZOID (L)  
— 27 DIA 14 H TRAPEZOID (M)

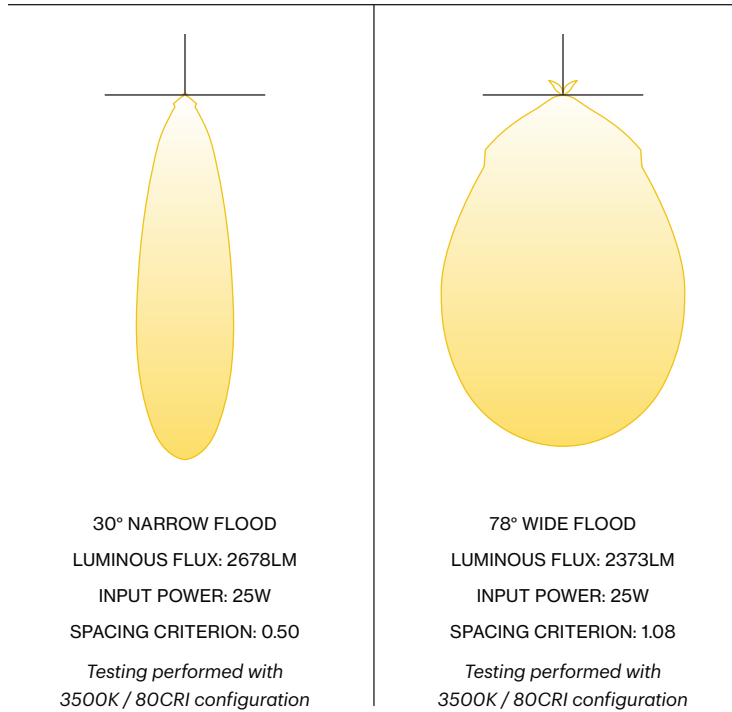


# Trapezoid Shade Lighting Details

ACOUSTIC COLLECTION

## LIGHT DISTRIBUTION OPTIONS

Consult factory or [lightart.com](http://lightart.com) for IES files, tested in accordance with IESNA LM79



## 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	0.93
2700K / 90	0.78
3000K / 80	0.97
3000K / 90	0.81
3500K / 80	1.00
3500K / 90	0.83
4000K / 80	1.01
4000K / 90	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

$(850) \times (0.97) \times (0.92) = 2206LM$



# Trapezoid Shade

## Part Number Specification

ACOUSTIC COLLECTION

**SPECIFICATION CODE**

Example: 2 QTY ACC-SHPE-TRAP-22SQ-CT-ZN2-STD-BPC-BK-BPF-835CK-800LM-FL-LT02

ACC-SHPE-TRAP-
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QTY.
①
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⑨
⑩
⑪

Complete form to order Trapezoid 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*

- 17SQ 17" SQUARE
- 22SQ 22" SQUARE
- 27SQ 27" SQUARE
- 34SQ 34" SQUARE
- 42SQ 42" SQUARE

**② OUTER FELT COLOR**

- EB EBNONY
- NF NIGHTFALL
- CA CAST
- ML MINERAL
- STL STEEL
- AR ARMOR
- NI NICKEL
- ZN ZINC

- EM EMERALD
- AD ADMIRAL
- DK DUSK
- STB STEELBLUE
- PT PLATINUM
- SLT SILT
- DW DRIFTWOOD
- DN DUNE

- SF SAFFRON
- JP JASPER
- AS ARIES
- OCH OCHRE
- MU MUSTARD
- CT CITRINE

**③ INNER FELT COLOR**

- EB2 EBNONY
- NF2 NIGHTFALL
- CA2 CAST
- ML2 MINERAL
- STL2 STEEL
- AR2 ARMOR
- NI2 NICKEL
- ZN2 ZINC

- EM2 EMERALD
- AD2 ADMIRAL
- DK2 DUSK
- STB2 STEELBLUE
- PT2 PLATINUM
- SLT2 SILT
- DW2 DRIFTWOOD
- DN2 DUNE

- SF2 SAFFRON
- JP2 JASPER
- AS2 ARIES
- OCH2 OCHRE
- MU2 MUSTARD
- CT2 CITRINE

**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

**⑧ LED CRI/CCT**

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

CONTINUE TO NEXT PAGE TO COMPLETE SPECIFICATION



# Trapezoid Shade

## Part Number Specification

ACOUSTIC COLLECTION

CONTINUE SPECIFICATION

### 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 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*

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

