

# Trellis Frame

Overview

ACOUSTIC COLLECTION



## Specifications

<b>SHADES</b>	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.	<b>HARDWARE</b>	TGIC-free powder coat. Stainless steel cables with nickel-plated cable gripper allows for adjustable hanging height. Made with RoHS compliant parts.
<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 4 for PoE or PoE+ compatibility.</p> <p>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.</p>	<b>MOUNTING</b>	Adjustable stainless steel aircraft cable, contact studio for lengths over 20'
<b>LUMEN MAINTENANCE</b>	<p>Reported: L90: &gt;55,000 hours</p> <p>Calculated: L70: &gt;180,000 hours L80: &gt;120,000 hours <i>EPA TM21 calculator derived</i></p>	<b>ELECTRICAL</b>	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: <a href="http://www.bodine.com/products/inverter.html">http://www.bodine.com/products/inverter.html</a>
<b>PHOTOMETRICS</b>	Consult factory or website for IES files, tested in accordance with IESNA LM79.	<b>CERTIFICATION</b>	CSA certified to CSA C22.2 No. 250.0, and conforms to UL standard 1598. PoE Compatible fixtures meet UL 2108.
		<b>CLEANING &amp; CARE</b>	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.
<div><div>align Declare</div><div>Red List Free Ingredients</div><div>UL ETL</div><div>TTL 24</div><div>MADE IN USA WITH GLOBAL AND DOMESTIC PRODUCTS</div></div>			

## ACOUSTIC COLLECTION

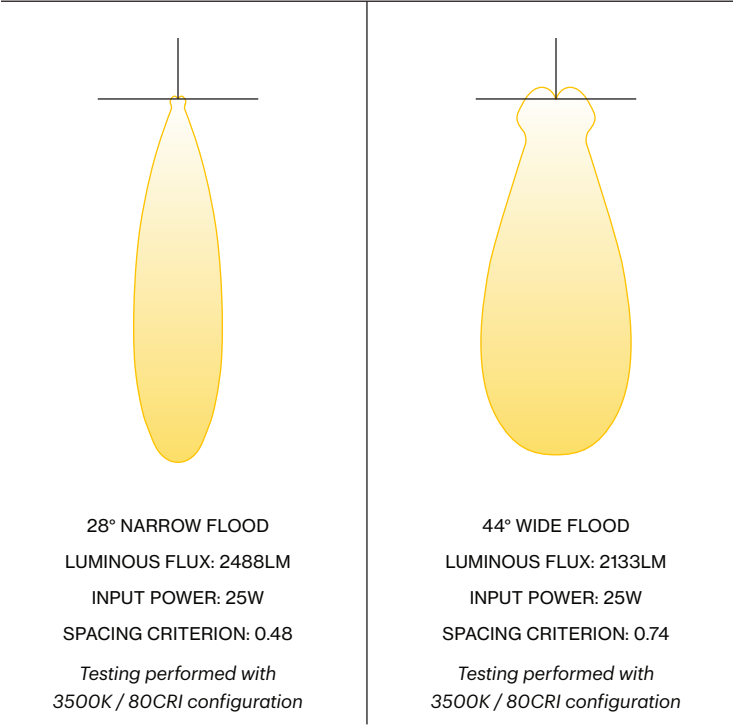
# Trellis Frame

Lighting Details

ACOUSTIC COLLECTION

### LIGHT DISTRIBUTION

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



### PERFORMANCE

Based on 3500K / 80CRI / NFL configuration (HP light core) and 3500K / 90CRI 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 =  $L_1 \times C_m \times O_m$  where:

$L_1$  = (Lumen output at 3500K / 80 CRI) ×

$C_m$  = (Color Temp. / CRI Multiplier) ×

$O_m$  = (Optic Multiplier)

Example:

2600LM / 3000K / 80CRI / FL Configuration

$(2678) \times (0.97) \times (0.88) = 2286\text{LM}$

SABINS PER FIXTURE    Equivalent square feet of perfect absorption

CENTER FREQUENCY (HZ)	2 × 2 TRELLIS
100	33.58
125	41.51
160	45.97
200	54.33
250	59.16
315	59.89
400	54.39
500	62.57
630	74.08
800	81.03
1000	90.07
1250	95.23
1600	102.11
2000	107.37
2500	112.85
3150	114.97
4000	119.14
5000	121.38
AVERAGE OF 250, 500, 1000, 2000	79.42
EFFECTIVE NRC*	1.00
EQUIVALENT SQ FT OF ACT (NRC 0.90)	88.2
EQUIVALENT SQ FT OF ACT (NRC 0.70)	113.5

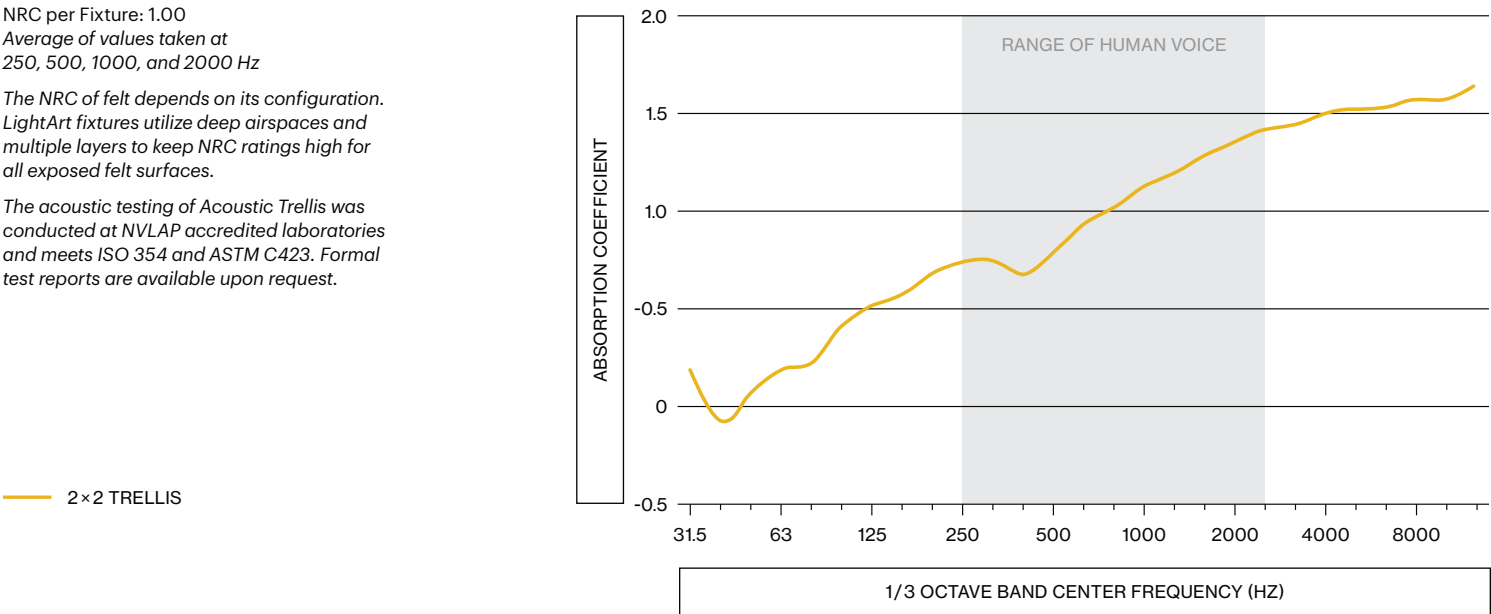
Measured using 2 × 2 Acoustic Trellis.

Absorption

NRC per Fixture: 1.00  
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 Trellis was  
conducted at NVLAP accredited laboratories  
and meets ISO 354 and ASTM C423. Formal  
test reports are available upon request.



# Trellis Frame

## Part Number Specification

ACOUSTIC COLLECTION

### SPECIFICATION CODE

Example: 2 QTY ACC-TREL-FRAM-1X2-EB-835CK-2000LM-NFL-LV01-STD-WPC-WH

QTY.  ACC-TREL-FRAM----------

1 2 3 4 5 6 7 8 9

Complete form to order Trellis 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)

☐ 1X  
☐ 1X2  
☐ 2X2  
☐ 2X3  
☐ 2X4  
☐ CUST\*

1X 1X2 2X2 2X3 2X4

CUSTOM CONFIGURATION

### 2 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

#### PATTERN OPTIONS

☐ DWA  
☐ IOK  
☐ WA  
☐ BA

☐ WALNUT  
☐ IRON OAK  
☐ CARMEL OAK  
☐ RICH BAMBOO

### 3 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

☐ E26AL E26 BASE A LAMP 120V only  
Source Lumens 800lm,  
619lm delivered 3000K > 90 CRI,  
Not available in PoE.

### 4 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

CONTINUE TO NEXT PAGE TO COMPLETE SPECIFICATION

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Part Number Specification

ACOUSTIC COLLECTION

CONTINUE SPECIFICATION

5 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

6 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.*
- ☐ E26 Universal Input (Dim on 120V for TRIAC/ELV & 120/277V for 0–10V) E26 BASE A LAMP *Only compatible with 120V ELV Dimming*

7 SUSPENSION

- ☐ STD 12" – 96"
- ☐ EXT\* 12" – 240"

8 CANOPY OPTIONS

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

9 POWER CORD

- ☐ WH WHITE
- ☐ BK BLACK

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MADE IN USA  
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DOMESTIC PRODUCTS