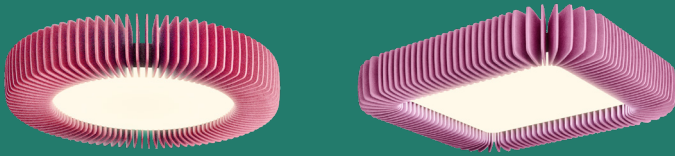


# LumiCoustica™ Pinna SOLA



Spec by: \_\_\_\_\_  
 Agency: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Type of Project: \_\_\_\_\_  
 Notes: \_\_\_\_\_



## LIGHTING PERFORMANCE\*

### ■ Square

	Output	Size					
		1' x 4'	2' x 2'	2' x 4'	4' x 4'	4' x 8'	6' x 6'
Power consumption (Watts)	Premium	18.9 W	22.4 W	50.4 W	113.4 W	252 W	274.4 W
Delivered output (Lumens)		772 lm	917 lm	2064 lm	4644 lm	10320 lm	11237 lm

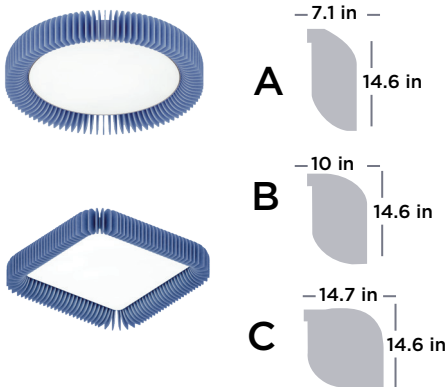
### ■ Circle

	Output	Size					
		3'	4'	5'	6'	8'	10'
Power consumption (Watts)	Premium	50W	92 W	157 W	217 W	414 W	664 W
Delivered output (Lumens)		2064 lm	3784 lm	6421 lm	8887 lm	16971 lm	27205 lm

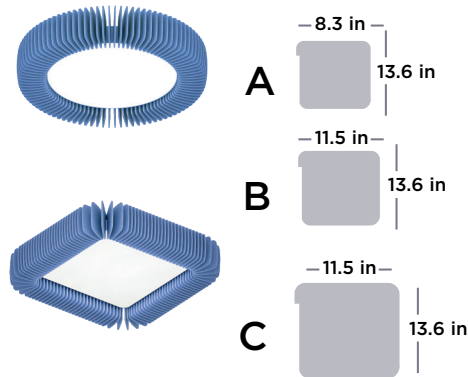
\* Power Consumption and Delivered Output values are based on 6500K CCT

## FINS DESIGN AND SIZE OPTIONS

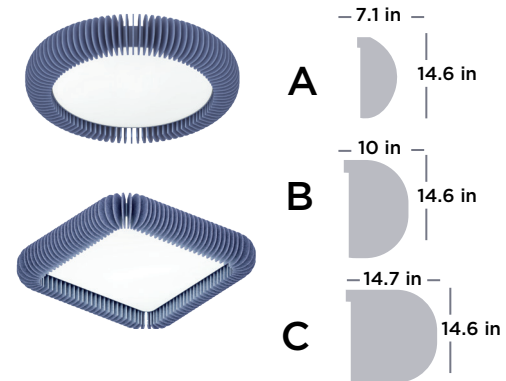
### Calma



### Sono



### Eco



## ORDERING CODE

TLS	LCT	PNA	SL	Shape	Size*				Acoustic Fin Model	Fin Size*				
	Family	Product	Engine		1'x4'	2'x2'	3'	4'			5'	6'	8'	10'
TLS	LumiCoustica <b>LCT</b>	Pinna <b>PNA</b>	Sola <b>SL</b>	Square* <b>SQ</b>	1'x4'	2'x2'	3'	4'	5'	6'	8'	10'	Calma <b>CM</b>	A <b>A</b>
				Circle <b>CL</b>	2'x2'	2'x4'	4'	5'	6'	8'	10'	Sono <b>SO</b>	B <b>B</b>	
					4'x4'	6'x6'	6'	8'	8'	10'			Eco <b>ECO</b>	C <b>C</b>

\* Rounded corners only

\* See full dimensions including fins on page 5-6

\* See page 1

Acoustic Build*	SP	Acoustic PET Color	Frame color	CCT	Control	P	LS
	Mounting					Output*	Diffuser
Enhanced (rich fin composition) <b>EF</b>	Suspended <b>SP</b>	Select from our PET color chart (page 3)	Black <b>BL</b>	2700-6500K <b>27K_65K</b>	0-10V <b>O/10</b>	Premium (859 lm/sqf)** <b>P</b>	LightTex Silent <b>LS</b>
Core (light fin composition) <b>CF</b>			White <b>WH</b>	2700-4000K <b>27K_40K</b>	Remote <b>RM</b>		
			Silver <b>NS</b>		Dali <b>DA</b>		
			Match PET* <b>MP</b>		DMX <b>DMX</b>		

\*See details on page 2

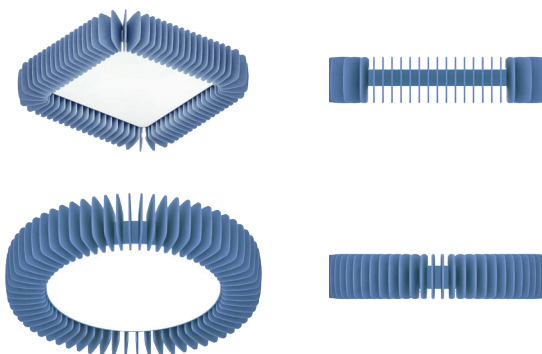
\*Frame finish will coordinate with PET felt color; exact matching not guaranteed.

\*\* Lm/sqf are calculated at LED source

## ACOUSTIC BUILD

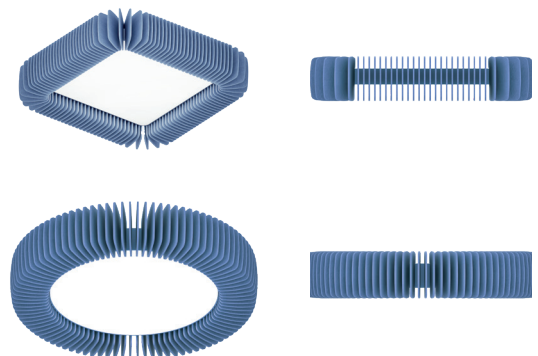
### Core

Uses a standard fin density, with fins spaced farther apart, resulting in a lighter overall configuration.



### Enhanced

Uses a higher fin density, with fins positioned closer together, creating a denser and more substantial configuration.



### Pinna Square - Acoustic Build (number of fins)

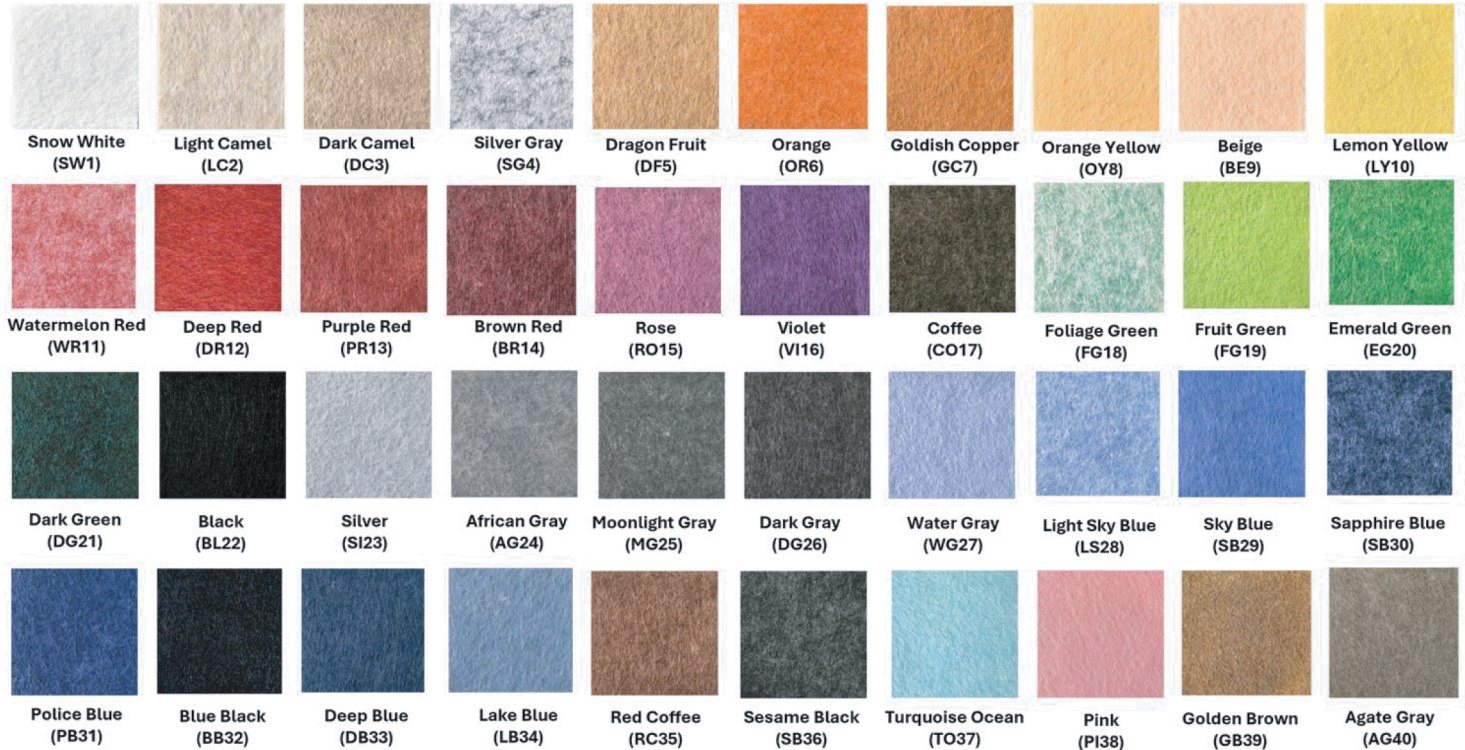
	1'x4'	2'x2'	2'x4'	4'x4'	6'x6'	8'x4'
Core	50	40	58	76	116	116
Enhanced	74	60	88	116	176	176

### Pinna Circle - Acoustic Build (number of fins)

	3'	4'	5'	6'	8'	10'
Core	48	64	80	96	128	160
Enhanced	72	96	120	144	192	240

## PET MATERIAL COLOR CHART

Experience our PET material through a diverse selection of colors, organized to support effortless coordination across a wide range of design applications.



Natural variations in color may occur during PET felt production. Digital color previews are for reference only and may differ from the final product. Availability and lead times can vary by color. Consult factory for more information.



Recyclable  
Materials



Environmental  
Responsibility



Sustainability  
Commitment

This material is manufactured using recycled content, helping reduce waste and support more sustainable material cycles. By transforming post-consumer plastics into a high-performance architectural material, it contributes to responsible design and environmental stewardship.

### Regular Care:

- **Dusting:** Use a vacuum with a soft brush attachment on low setting. Gently vacuum the felt in smooth, even strokes.
- **Light Debris:** Remove lint or small particles using a lint roller or low-tack tape.

### Spot Cleaning:

If you notice a mark or smudge:

1. Use a soft microfiber cloth slightly dampened with clean water.
2. Gentle blot the area. Do not rub.
3. For tougher spots, you may use a mild soap and water solution. Apply sparingly and blot again with clean water afterward.
4. Allow the felt to air dry naturally.

## TECHNICAL SPECIFICATIONS

### ■ PET Material

Polyester Acoustic Felt (PET)

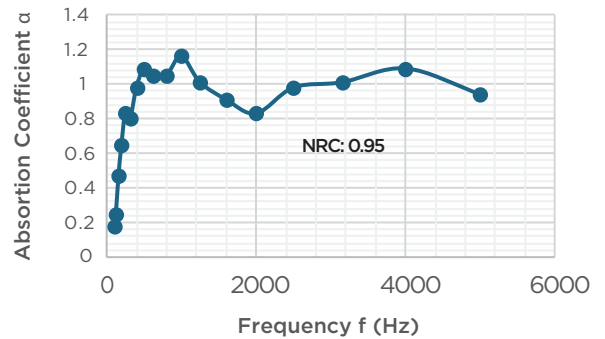
- **Material:** 100% polyester fiber
- **Panel Thickness:** 9 mm
- **Colors:** 40 colors
- **Fire Classification:** B-s1, d0

**NRC Test Item:** Polyester Fiber Board

**Test Content:** Sound absorption coefficient measured using the reverberation chamber method in accordance with **ISO 354 / GB-T 20247-2006**.

**NRC (Noise Reduction Coefficient):** 0.95

Frequency (Hz)	$\alpha_s$	Frequency (Hz)	$\alpha_s$
100	0.18	800	1.05
125	0.25	1000	1.16
160	0.47	1250	1.01
200	0.65	1600	0.91
250	0.83	2000	0.83
315	0.80	2500	0.98
400	0.98	3150	1.01
500	1.09	4000	1.09
630	1.05	5000	0.94



### ■ Diffuser

	Light Tex Silent
<b>Material</b>	100 % Polyester
<b>Weight</b>	172 gr/m2 (16 gr/ft2 )
<b>Fire classification</b>	NFPA-701, B1, EN 13501-1, B-s1, d0
<b>Transmission rate</b>	37%
<b>CCT shift</b>	0-50K (see table page 5)
<b>NRC</b>	0.82

### ■ Lighting

<b>Ingress protection</b>	IP22 (indoor)
<b>CRI</b>	~ 90 (white LED)
<b>LM80 *</b>	> 150,000 hours
<b>Operating temperature</b>	-30 °C TO 80 °C

Note: \*LM80 Test is only applicable to white pixels.

### ■ Frame color

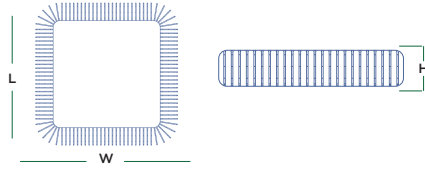
Material	Aluminum			
<b>Standard colors</b>	Black 	White 	Silver 	Match PET 

<b>Warranty*</b>	5-year limited warranty for LED
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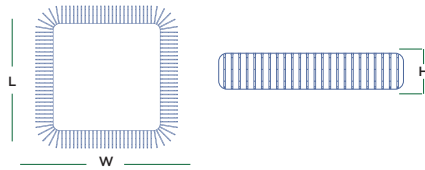
\* Warranty Terms and Conditions at [www.tls-led.com/warranty](http://www.tls-led.com/warranty)

## DIMENSIONS

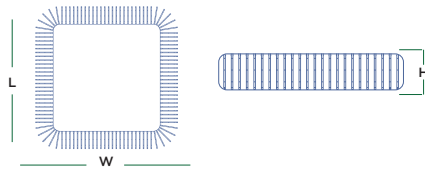
■ **Square**



	<b>CALMA</b>																	
	<b>Fin Size A</b>						<b>Fin Size B</b>						<b>Fin Size C</b>					
	<b>Width</b>		<b>Lenght</b>		<b>Height</b>		<b>Width</b>		<b>Lenght</b>		<b>Height</b>		<b>Width</b>		<b>Lenght</b>		<b>Height</b>	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
<b>2x2</b>	894.9	35.2	894.2	35.2	369.6	14.6	1042.8	41.1	1042.8	41.1	369.6	14.6	1279.1	50.4	1279.1	50.4	369.6	14.6
<b>1x4</b>	590.1	23.2	1504.5	59.2	369.6	14.6	738.0	29.1	1652.4	65.1	369.6	14.6	974.3	38.4	1888.7	74.4	369.6	14.6
<b>2x4</b>	894.9	35.2	1504.5	59.2	369.6	14.6	1042.8	41.1	1652.4	65.1	369.6	14.6	1279.1	50.4	1888.7	74.4	369.6	14.6
<b>4x4</b>	1504.5	59.2	1504.5	59.2	369.6	14.6	1652.4	65.1	1652.4	65.1	369.6	14.6	1888.7	74.4	1888.7	74.4	369.6	14.6
<b>4x8</b>	1504.5	59.2	2723.7	107.2	369.6	14.6	1652.4	65.1	2871.6	113.1	369.6	14.6	1888.7	74.4	3107.9	122.4	369.6	14.6
<b>6x6</b>	2114.1	83.2	2114.1	83.2	369.6	14.6	2262.0	89.1	2262.0	89.1	369.6	14.6	2498.3	98.4	2498.3	98.4	369.6	14.6



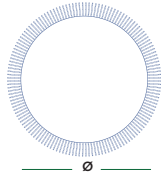
	<b>SONO</b>																	
	<b>Fin Size A</b>						<b>Fin Size B</b>						<b>Fin Size C</b>					
	<b>Width</b>		<b>Lenght</b>		<b>Height</b>		<b>Width</b>		<b>Lenght</b>		<b>Height</b>		<b>Width</b>		<b>Lenght</b>		<b>Height</b>	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
<b>2x2</b>	955.7	37.6	955.7	37.6	345.9	13.6	1118.9	44.1	1118.9	44.1	345.9	13.6	1279.1	50.4	1279.0	50.4	350.6	13.8
<b>1x4</b>	650.9	25.6	1565.3	61.6	345.9	13.6	814.1	32.1	1728.5	68.1	345.9	13.6	974.3	38.4	1888.6	74.4	350.6	13.8
<b>2x4</b>	955.7	37.6	1565.3	61.6	345.9	13.6	1118.9	44.1	1728.5	68.1	345.9	13.6	1279.1	50.4	1888.6	74.4	350.6	13.8
<b>4x4</b>	1565.3	61.6	1565.3	61.6	345.9	13.6	1728.5	68.1	1728.5	68.1	345.9	13.6	1888.7	74.4	1888.7	74.4	350.6	13.8
<b>4x8</b>	1565.3	61.6	2784.5	109.6	345.9	13.6	1728.5	68.1	2947.7	116.1	345.9	13.6	1888.7	74.4	3107.8	122.4	350.6	13.8
<b>6x6</b>	2174.6	85.6	2174.9	85.6	345.9	13.6	2338.1	92.1	2338.1	92.1	345.9	13.6	2498.3	98.4	2498.23	98.4	350.6	13.8



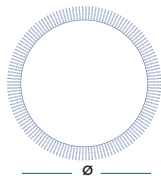
	<b>ECO</b>																	
	<b>Fin Size A</b>						<b>Fin Size B</b>						<b>Fin Size C</b>					
	<b>Width</b>		<b>Lenght</b>		<b>Height</b>		<b>Width</b>		<b>Lenght</b>		<b>Height</b>		<b>Width</b>		<b>Lenght</b>		<b>Height</b>	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
<b>2x2</b>	894.9	35.2	894.2	35.2	369.6	14.6	1042.8	41.1	1042.8	41.1	369.6	14.6	1279.1	50.4	1279.1	50.4	369.6	14.6
<b>1x4</b>	590.1	23.2	1504.5	59.2	369.6	14.6	738.0	29.1	1652.4	65.1	369.6	14.6	974.3	38.4	1888.7	74.4	369.6	14.6
<b>2x4</b>	894.9	35.2	1504.5	59.2	369.6	14.6	1042.8	41.1	1652.4	65.1	369.6	14.6	1279.1	50.4	1888.7	74.4	369.6	14.6
<b>4x4</b>	1504.5	59.2	1504.5	59.2	369.6	14.6	1652.4	65.1	1652.4	65.1	369.6	14.6	1888.7	74.4	1888.7	74.4	369.6	14.6
<b>4x8</b>	1504.5	59.2	2723.7	107.2	369.6	14.6	1652.4	65.1	2871.6	113.1	369.6	14.6	1888.7	74.4	3107.9	122.4	369.6	14.6
<b>6x6</b>	2114.1	83.2	2114.1	83.2	369.6	14.6	2262.0	89.1	2262.0	89.1	369.6	14.6	2498.3	98.4	2498.3	98.4	369.6	14.6

## DIMENSIONS

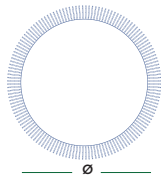
■ Circle



	CALMA											
	Fin Size A				Fin Size B				Fin Size C			
	Diameter		Height		Diameter		Height		Diameter		Height	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
<b>3 ft</b>	1240.8	48.9	369.6	14.6	1388.8	54.7	369.6	14.6	1625.1	64.0	369.6	14.6
<b>4 ft</b>	1546.2	60.9	369.6	14.6	1694.2	66.7	369.6	14.6	1930.5	76.0	369.6	14.6
<b>5 ft</b>	1850.4	72.9	369.6	14.6	1998.4	78.7	369.6	14.6	2234.7	88.0	369.6	14.6
<b>6 ft</b>	2155.2	84.9	369.6	14.6	2303.2	90.7	369.6	14.6	2539.5	100.0	369.6	14.6
<b>8 ft</b>	2764.8	108.9	369.6	14.6	2912.8	114.7	369.6	14.6	3149.1	124.0	369.6	14.6
<b>10 ft</b>	3374.5	132.9	369.6	14.6	3522.4	138.7	369.6	14.6	3758.7	148.0	369.6	14.6



	SONO											
	Fin Size A				Fin Size B				Fin Size C			
	Diameter		Height		Diameter		Height		Diameter		Height	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
<b>3 ft</b>	1301.7	51.2	345.9	13.6	1469.9	57.7	345.9	13.6	1625.1	64.0	350.6	13.8
<b>4 ft</b>	1607.1	63.3	345.9	13.6	1770.3	69.7	345.9	13.6	1930.5	76.0	350.6	13.8
<b>5 ft</b>	1911.3	75.2	345.9	13.6	2074.5	81.7	345.9	13.6	2234.7	88.0	350.6	13.8
<b>6 ft</b>	2216.1	87.2	345.9	13.6	2379.3	93.7	345.9	13.6	2539.5	100.0	350.6	13.8
<b>8 ft</b>	2825.7	111.2	345.9	13.6	2988.9	117.7	345.9	13.6	3149.1	124.0	350.6	13.8
<b>10 ft</b>	3435.3	135.2	345.9	13.6	3598.5	141.7	345.9	13.6	3758.7	148.0	350.6	13.8

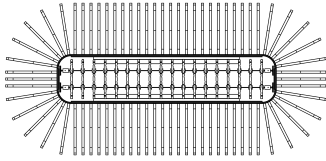


	ECO											
	Fin Size A				Fin Size B				Fin Size C			
	Diameter		Height		Diameter		Height		Diameter		Height	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
<b>3 ft</b>	1240.8	48.9	369.6	14.6	1388.8	54.7	369.6	14.6	1625.1	64.0	369.6	14.6
<b>4 ft</b>	1546.2	60.9	369.6	14.6	1694.2	66.7	369.6	14.6	1930.5	76.0	369.6	14.6
<b>5 ft</b>	1850.4	72.9	369.6	14.6	1998.4	78.7	369.6	14.6	2234.7	88.0	369.6	14.6
<b>6 ft</b>	2155.2	84.9	369.6	14.6	2303.2	90.7	369.6	14.6	2539.5	100.0	369.6	14.6
<b>8 ft</b>	2764.8	108.9	369.6	14.6	2912.8	114.7	369.6	14.6	3149.1	124.0	369.6	14.6
<b>10 ft</b>	3374.4	132.9	369.6	14.6	3522.4	138.7	369.6	14.6	3758.7	148.0	369.6	14.6

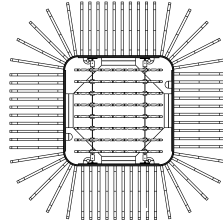
## DIMENSIONS

■ Square

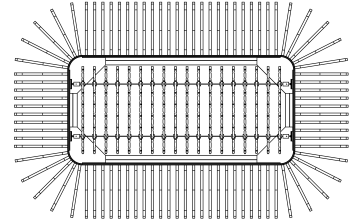
1'x4'



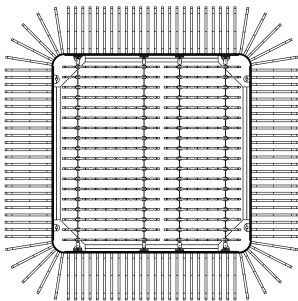
2'x2'



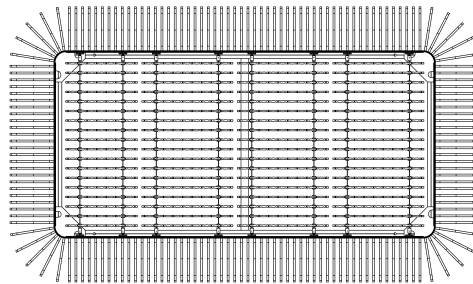
2'x4'



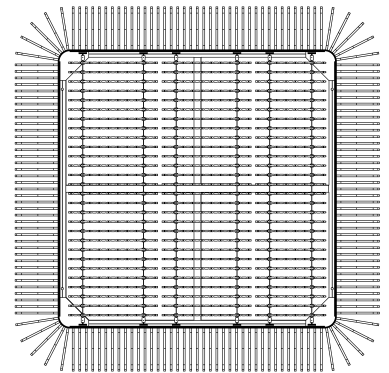
4'x4'



4'x8'

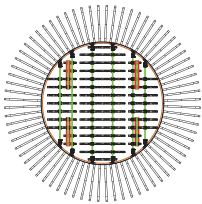


6'x6'

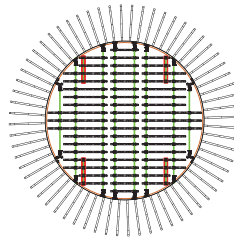


■ Circle

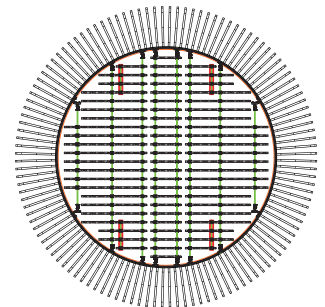
3ft



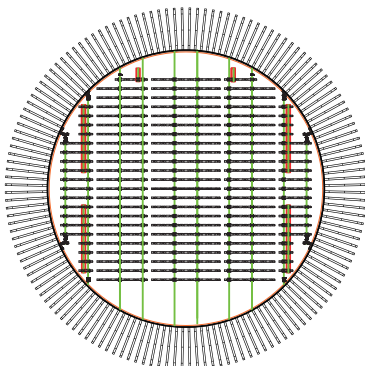
4ft



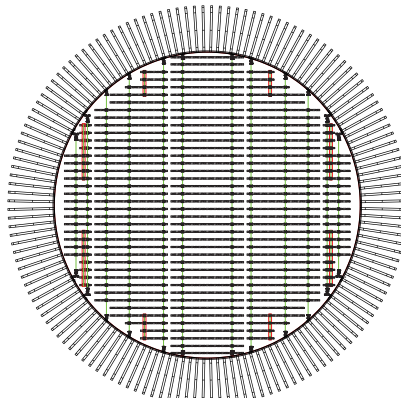
5ft



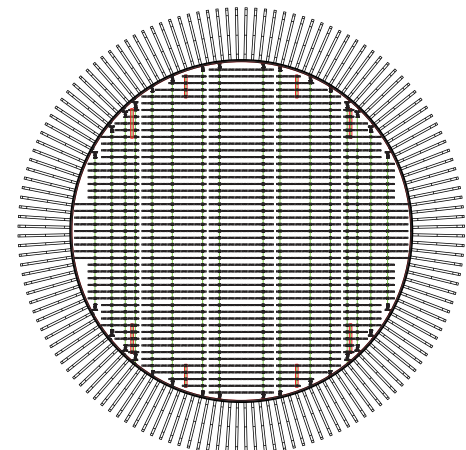
6ft



8ft

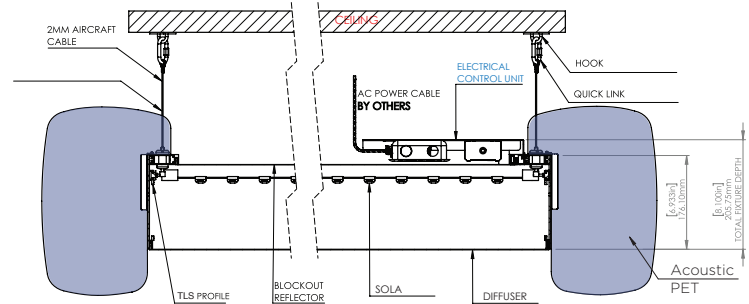
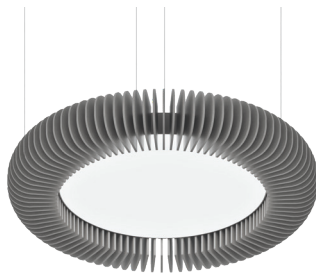
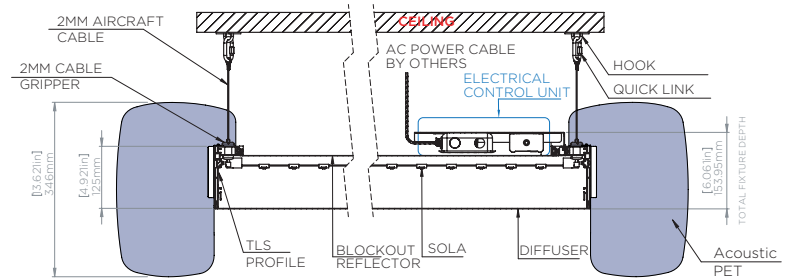
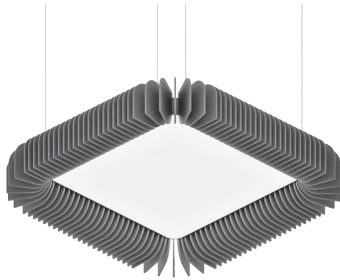


10ft



# MOUNTING OPTIONS

■ **Suspended (SP)**



- Hooks to existing ceiling installed by others

# WEIGHT\*

PINNA SQUARE ASTRA		
Diameter [ft]	Weight [kg]	Weight [lb]
2x2	26.3	57.9
1x4	30.3	66.8
2x4	35.7	78.7
4x4	45.7	100.8
4x8	68.7	151.6
6x6	76.0	167.5

\* Maximum weight

PINNA CIRCLE ASTRA		
Diameter [ft]	Weight [kg]	Weight [lb]
3	33.8	74.4
4	45.0	99.1
5	54.0	119.0
6	67.7	149.3
8	92.3	203.4
10	123.9	273.2

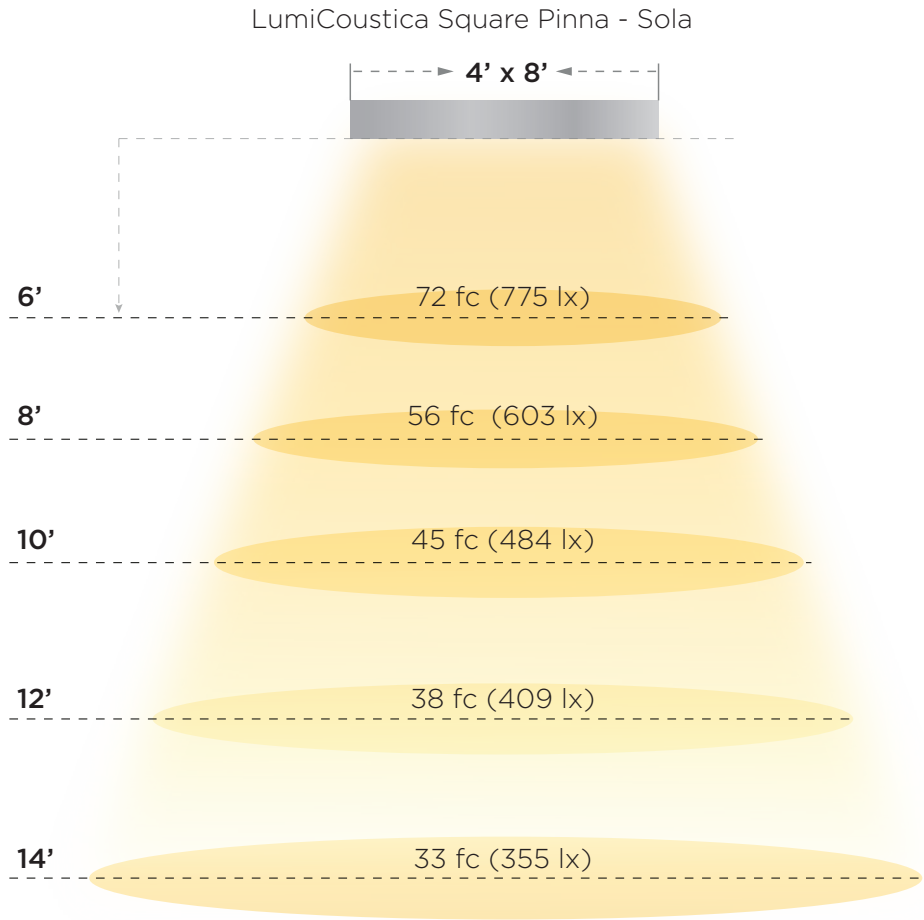
\* Maximum weight

# LIGHTING PERFORMANCE AND EFFICIENCY

- CCT Shifting**

Output	CCT		
	2,700K	4,000K	6,500K
Premium	2,658	3,542	6,572

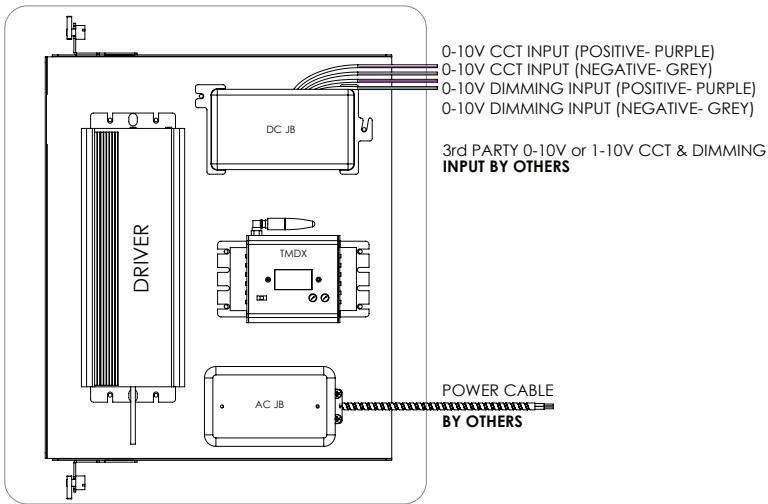
- Foot Candle per height**



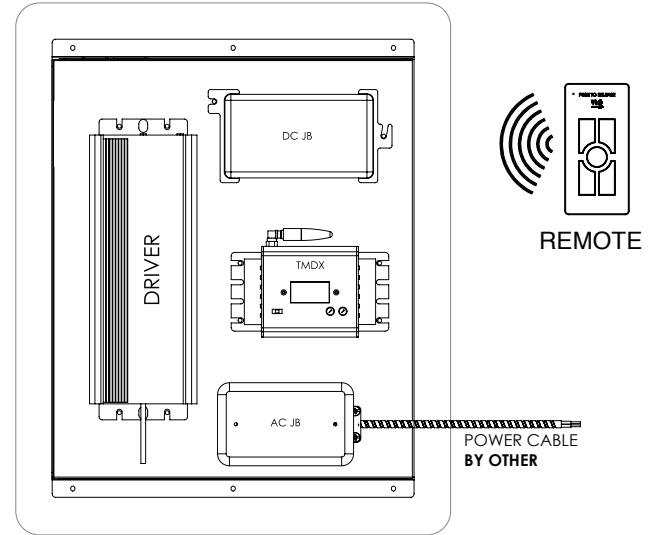
Note: Results are simulated based on 10' x 16' room & Reflection factors C70% W77% & F20% , other measurements available on requests.  
Multiple panels will influence the foot candle.

## CONTROL

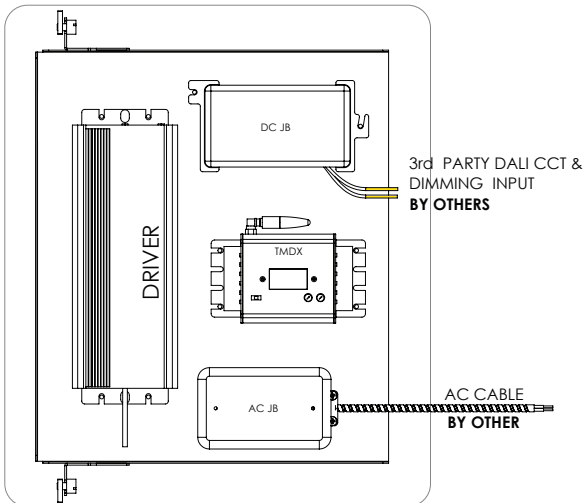
### 0-10V (O/10)



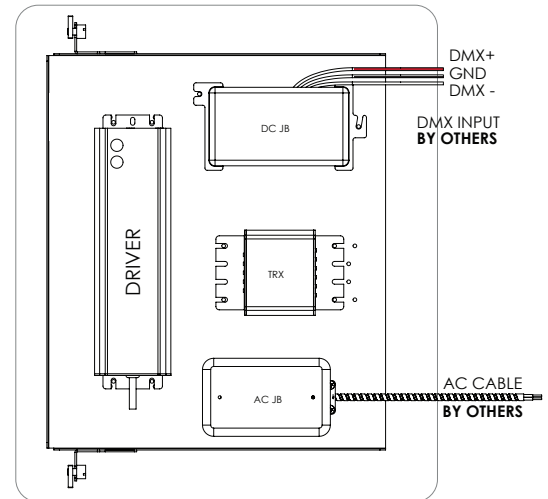
### RF Remote (RM)



### Dali (DA)



### DMX (DMX)



### Electrical

<b>Driver models</b>	HLG-60-24A, HLG-100-24A, HLG-150-24A, HLG-240-24A, HLG-320-24A
<b>Input voltage</b>	90-305 V AC, 47-63 HZ
<b>Output voltage</b>	21-24 V DC