

Squero Hubs Acoustix

UNIQUE ACOUSTIC LIGHTING COMPOSITIONS





Squero Hubs Acoustix

Squero Hubs Acoustix pendant fixtures embody superior craftsmanship and versatile high performance. With exceptional sound absorption from fine-cut acoustic felt and low-glare illumination down to UGR<10, not to mention multiple optics for direct and indirect distribution, these fixtures create beautifully lit and comfortable spaces.

UP TO

1000 lm/ft

HUBS CONNECTORS

2-, 3-,
& 4-way

VISUAL COMFORT

Low
Glare

OPTICS

4+ Direct Optics
2+ Indirect Optics

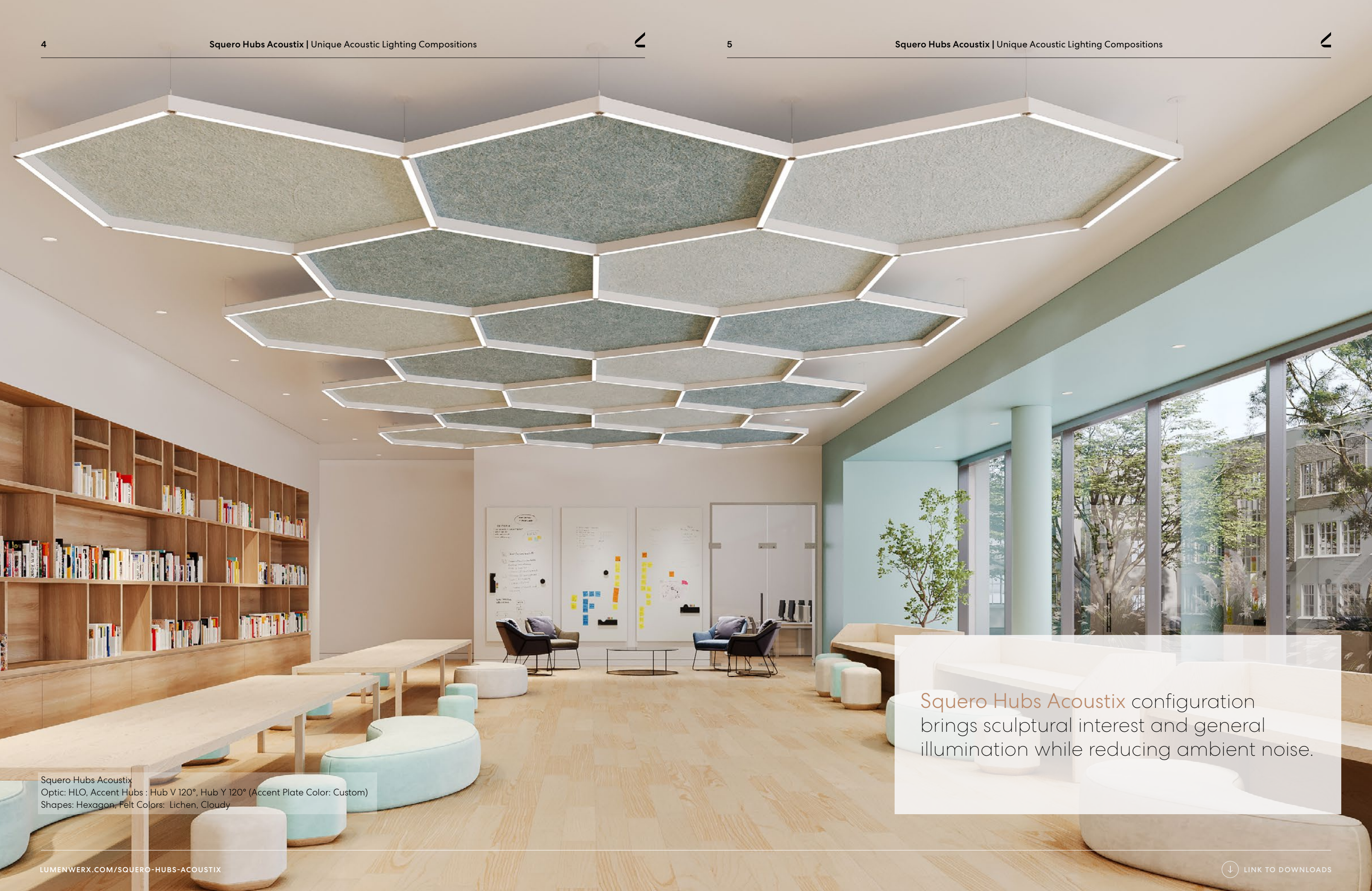
ACOUSTIC FELT OPTIONS

30+
Colors

SHAPE OPTIONS

Square
Rectangle
Hexagon
Triangle





Squero Hubs Acoustix
Optic: HLO, Accent Hubs : Hub V 120°, Hub Y 120° (Accent Plate Color: Custom)
Shapes: Hexagon, Felt Colors: Lichen, Cloudy

Squero Hubs Acoustix configuration brings sculptural interest and general illumination while reducing ambient noise.



Configuration

Squero Hubs Acoustix

Flexible, scalable, and providing impressive sound absorption, the Squero Hubs Acoustix System features four geometric shapes that function as standalone luminaires or combine into custom configurations using 2-, 3-, or 4-way Hubs Connectors. Acoustic panels can cover the entire setup or specific modules. Blank Covers are available for areas needing sound absorption without illumination. Squero Hubs Acoustix easily integrates with other building systems, including sprinklers, air conduits, and sound equipment.

ACOUSTIC

Impressive
Sound Absorption

MODULAR DESIGN

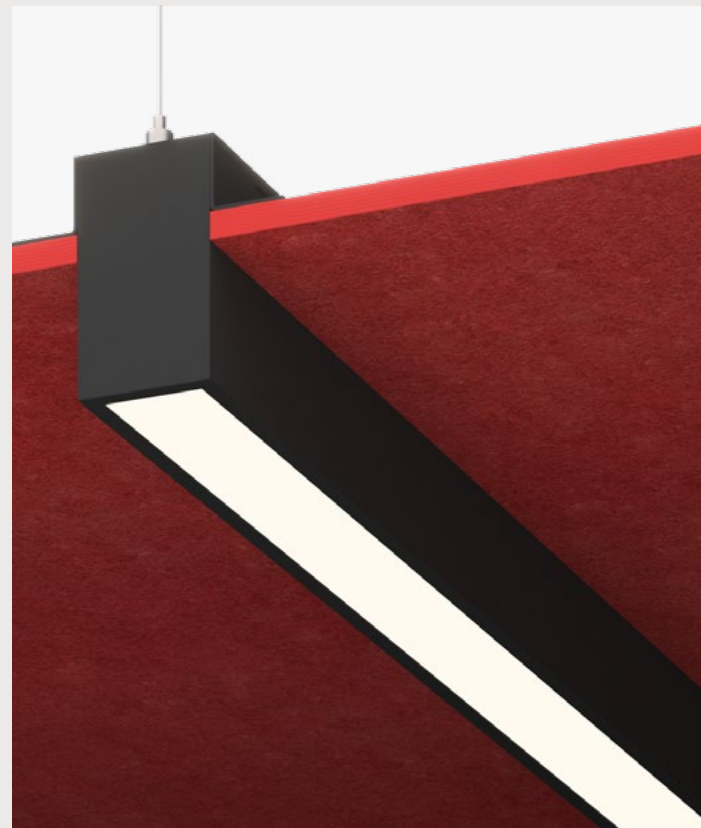
Flexible
and Scalable

SUSTAINABILITY

50%
Recycled Materials*

COST EFFECTIVE

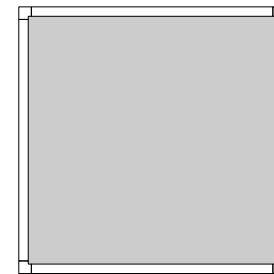
Easy
Integration



*Acoustic Felt is composed of at least 50% recycled plastic bottles (PET), and the metal extrusion is made from locally sourced recycled aluminum.



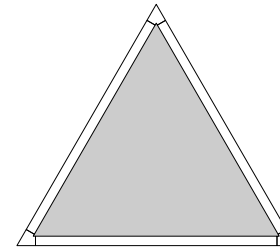
4+ SHAPES



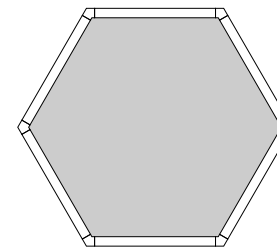
SQUARE



RECTANGLE



TRIANGLE



HEXAGON

12+ HUB CONNECTORS



2-WAY HUBS

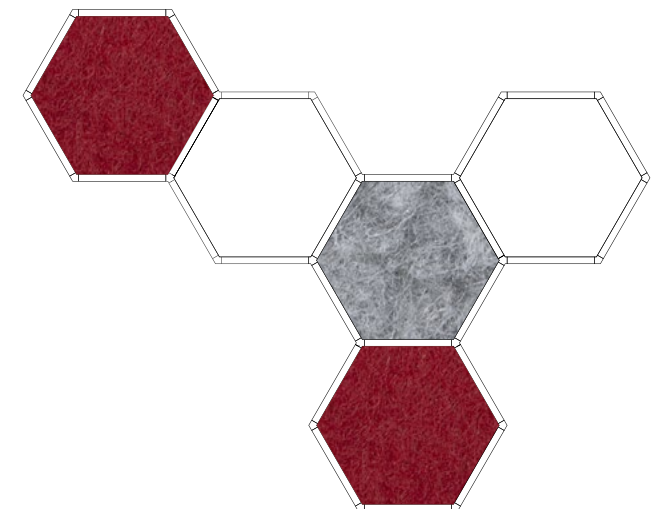
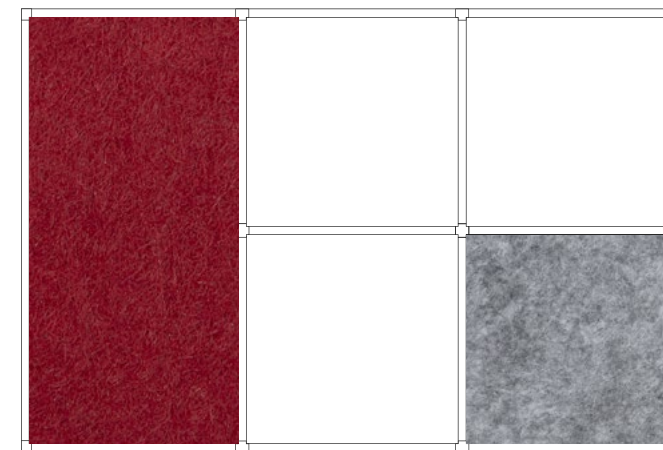


3-WAY HUBS



4-WAY HUBS

INFINITE CONFIGURATIONS





Declare

Optic: Miniature Reflector Optic, Medium 35°
Hub Connector: 3 Way Hub Connector "Y" 120°
Shape: Hexagon
Felt Color: Cherry

Squero Hubs Acoustix: Sustainable Low Glare Lighting with Impressive Sound Absorption Performance



Aligned with our Greenwerx Initiative, the Squero Hubs Acoustix embodies our latest eco-conscious innovations. Each luminaire is thoughtfully crafted with at least 50% recycled or post-consumer materials, is manufactured in our factory powered entirely by clean, green hydroelectric energy, and features Declare labels, reflecting our commitment to transparency.



Optics

Squero Hubs Acoustix

With our innovative Squero Hubs Acoustix system, lighting begins with the Squero linear fixture. The Squero luminaires provides exceptional visual comfort with low UGR and are available in lengths from 2 to 12 feet. They offer both direct and direct/indirect light distributions. For direct optics, options include Parabolic Louvers (MBPL, MPL, SPL), Miniature Reflector Optic (MPO), and High-Efficiency Lambertian Optic (HLO).

For indirect optics, choose between our state-of-the-art Wide Indirect Optic (WIO2) with a 160° beam spread and uniformity up to 2:1, or the Translucent Optic (TIO) with a 100° beam spread.

The System also allows for Blank sections to create unlit areas with acoustic benefits.

LOW GLARE

<10 UGR

UP TO

1000 lm/ft

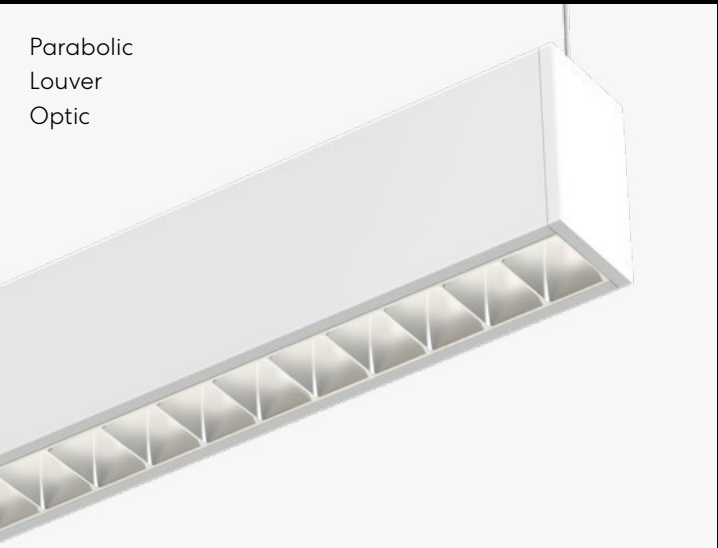
DISTRIBUTIONS

Direct/Indirect

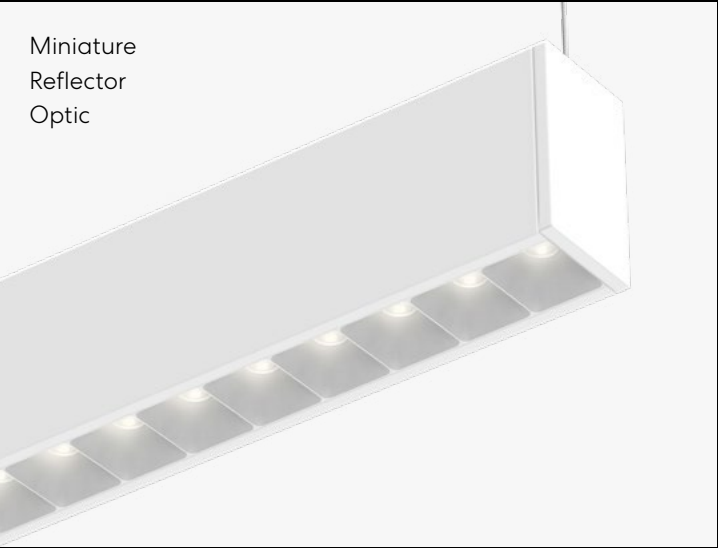
Direct

LENGTHS

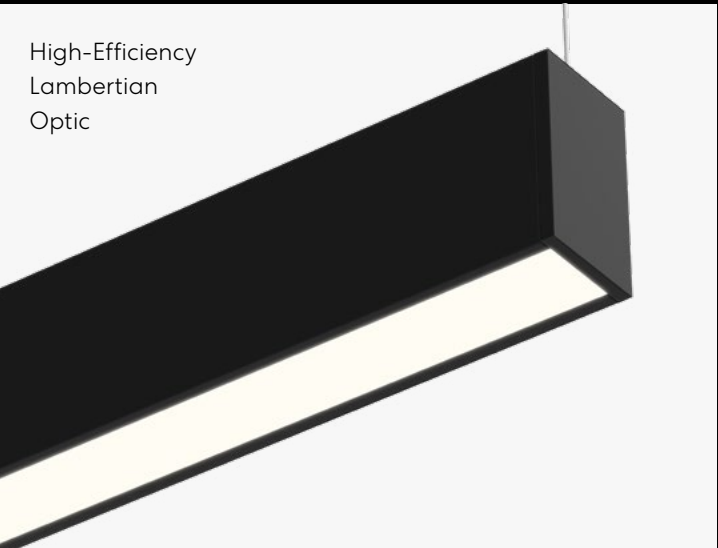
2' to 12'



Parabolic
Louver
Optic



Miniature
Reflector
Optic



High-Efficiency
Lambertian
Optic



Squero Hubs Acoustix

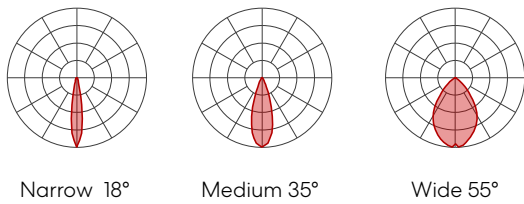
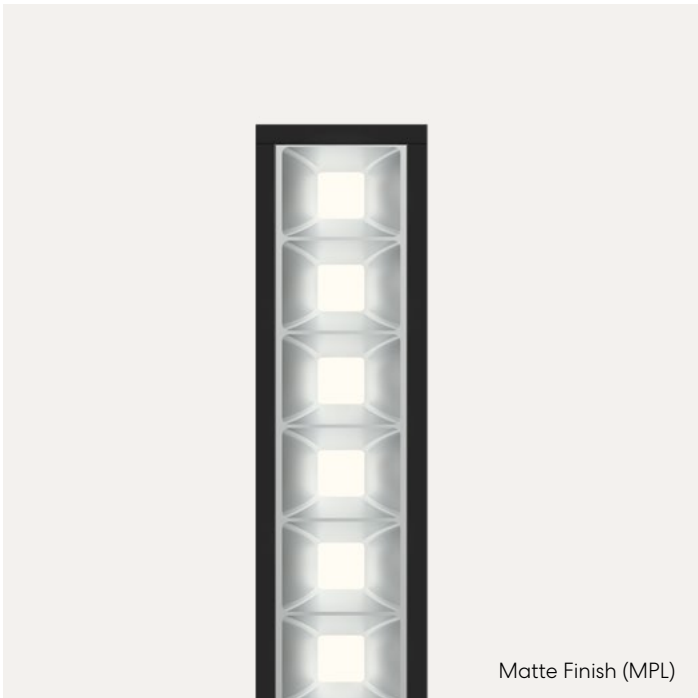
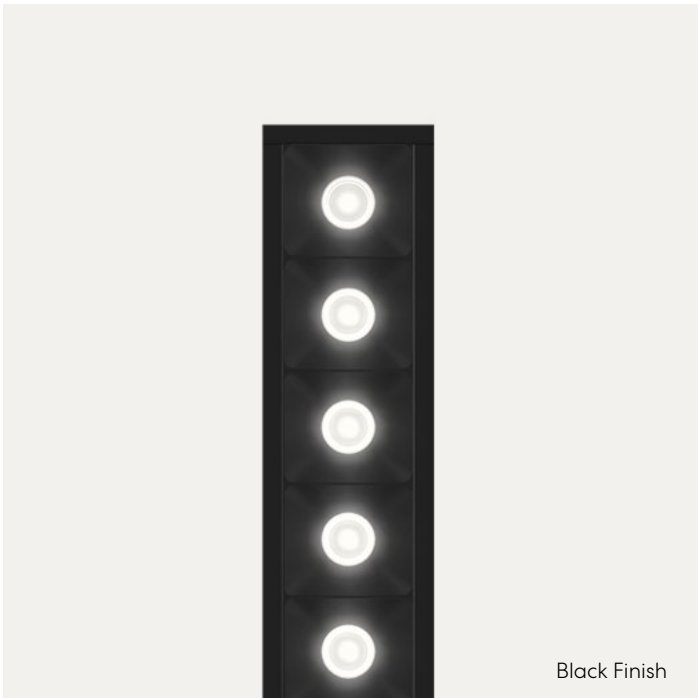
Optic: HLO
Hub Connectors: Hub V 90°, Hub T, Hub + (Accent Plate Color: Custom)
Shapes: Rectangle and Square
Felt Colors: Latte and Mocha

Squero Hubs Acoustix provides general illumination and effectively absorbs sound from exposed elements in open ceilings.



Direct Optics

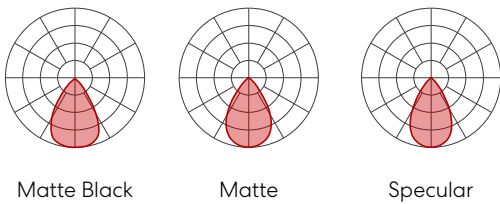
Squero Hubs Acoustix



Miniature Reflector Optic (MRO)

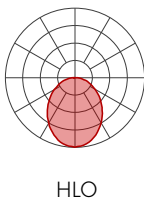
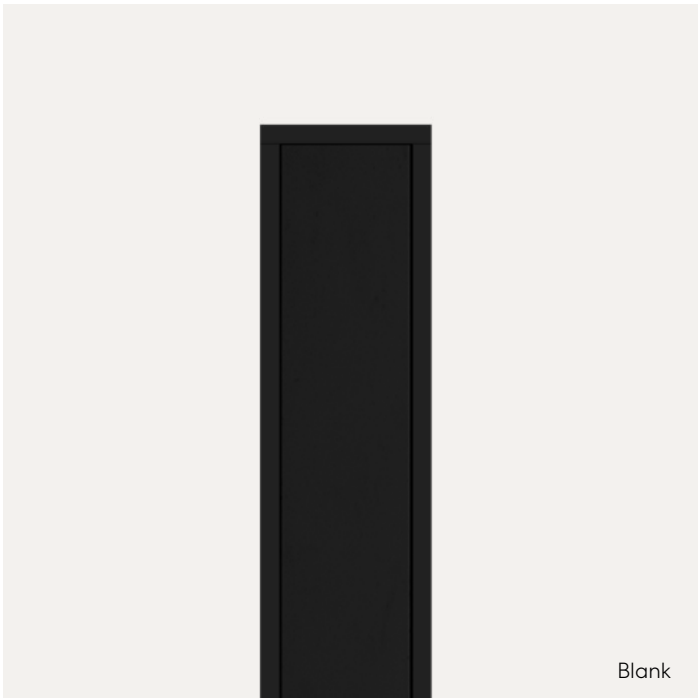
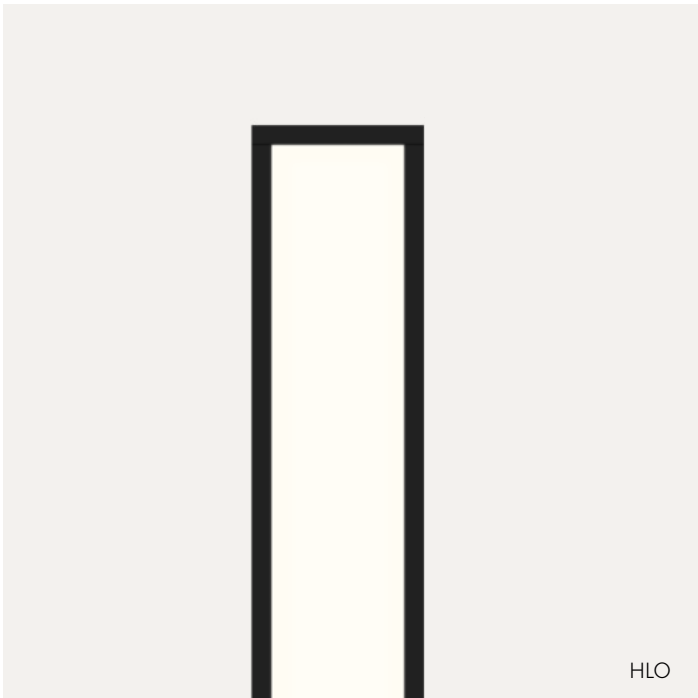
The Miniature Reflector Optic (MRO) provides a well-controlled beam that is remarkably comfortable.

MRO is available in Black or White finish and creates a distinctive sharp visual texture with Narrow (18°), Medium (35°), and Wide (55°) beam spreads.



Parabolic Louver Optic (MBPL, MPL & SPL)

Parabolic Louver Optics offer excellent shielding to create low-glare environments with a clear and even visual texture. The louvers design direct light into a comfortable distribution that change slightly based on their finish. **Matte Black** finish (MBPL) ensures ultra-smooth and discreet beam control for a very quiet luminaire. **Matte** finish (MPL) offers a softer look, wider beam spread, and gentle brightness transition at cut-off. **Specular** finish (SPL) provides higher efficacy, sharper cut-off, and a quiet appearance.



High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) is a clean smooth acrylic lens offering comfortable uniform distribution. HLO is the perfect optic to create a bright, open space.

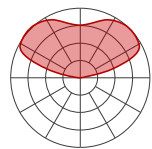
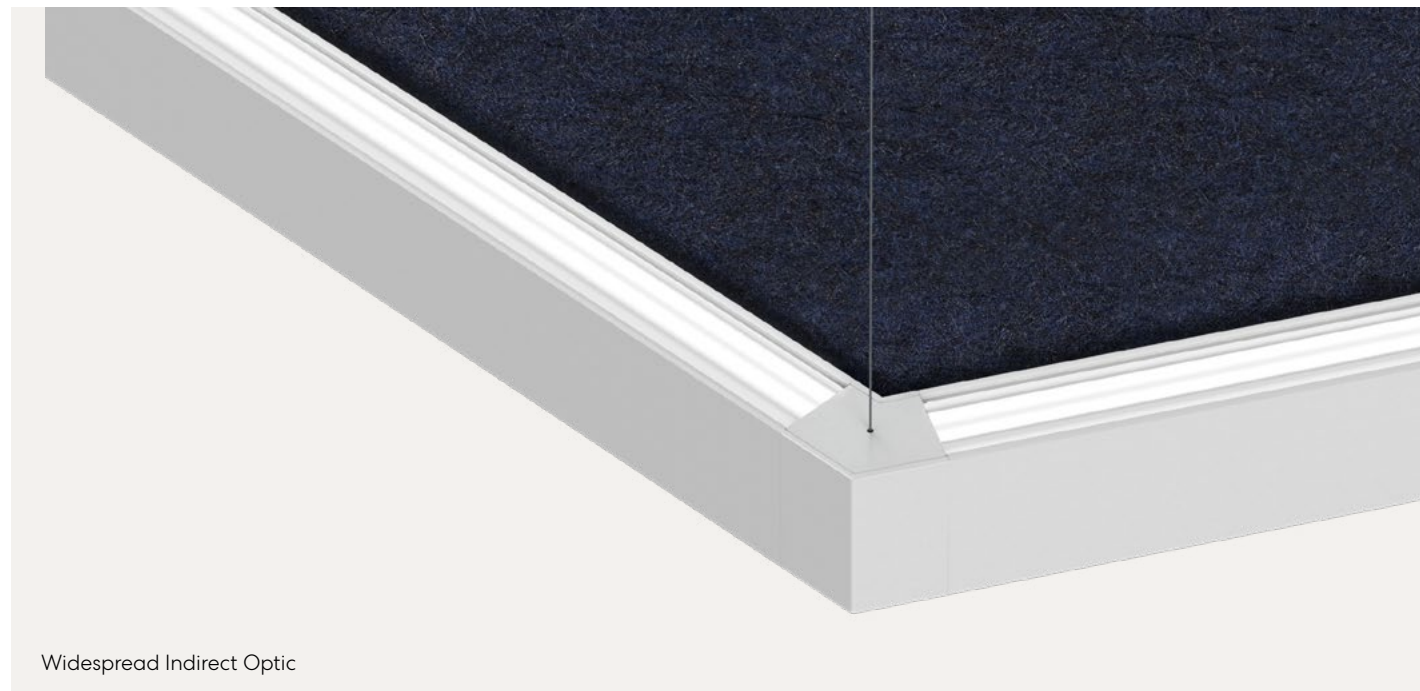
Blank Cover Option (BLA)

The Blank Cover Option is designed to create unlit areas. They are made of aluminum to match the luminaire housing and snap into the aperture.



Indirect Optics

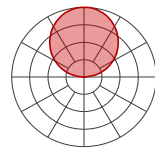
Squero Hubs Acoustix



WIO2

Widespread Indirect Optic (WIO2)

The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1.



TIO

Translucent Indirect Optic (TIO)

The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.



Hubs Connectors

Options

All Hubs are available with a choice of regressed color accent panels or with a flush room-side face. Two-way, three-way and four-way connectors are available in different angles, as well as custom variations. The 12 Hubs create precise geometric alignment and match the 1 7/8" x 3 1/8" profile and finish of Squero modules.

2-WAY HUBS



Hub Straight



Hub V 45°



Hub V 60°



Hub V 90°

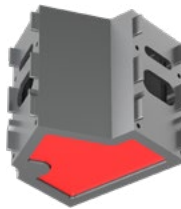


Hub V 120°

3-WAY HUBS



Hub T



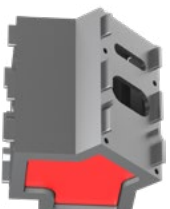
Hub Y Right



Hub Y Left



Hub Y 120°



Hub Y 135°

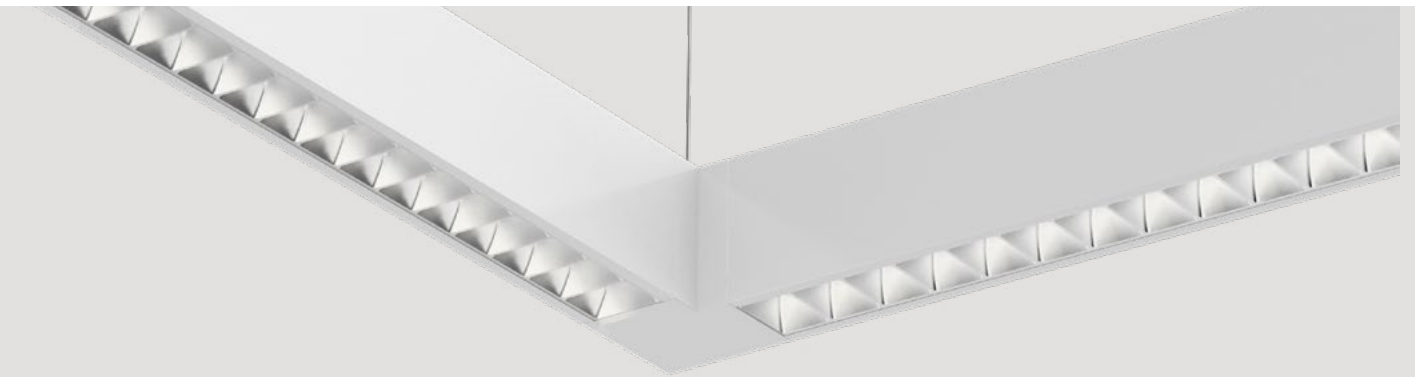
4-WAY HUBS



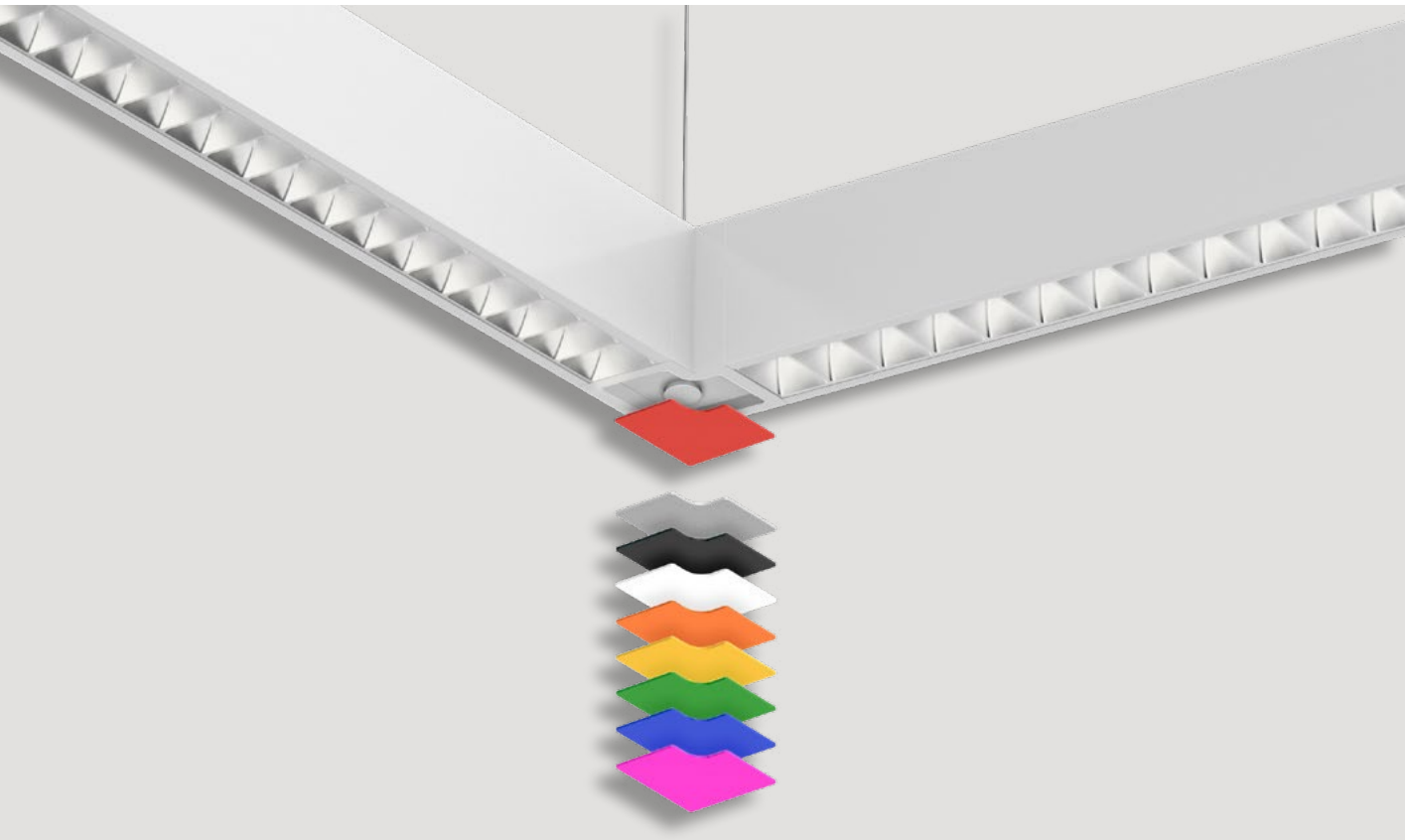
Hub +



Hub X



Flush Hubs



Color Accent Hubs
(Regressed Color Accent Plate)

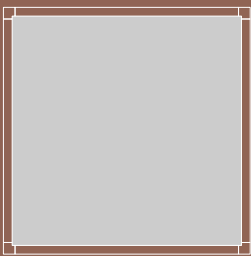


Acoustic Panels

The Squero Hubs Acoustix System features four distinct shapes: Square, Rectangle, Triangle, and Hexagon. These shapes can function as individual luminaires or be combined to create unique ceiling designs. Acoustic panels can be applied to each shape or distributed throughout the design. Additionally, the system includes blank sections solely for sound absorption.

Squero Hubs Acoustix is the ideal solution to manage noise levels and enhance acoustic quality in open space concepts, offices, conference rooms, remodel projects and more.

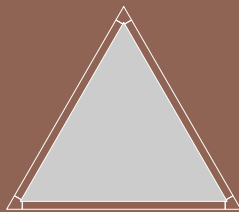
SQUARE



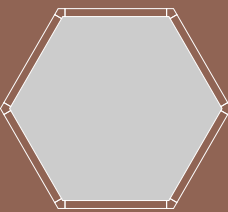
RECTANGLE



TRIANGLE



HEXAGON



60% Recycled
Material (PET)

Zero VOC
Emissions

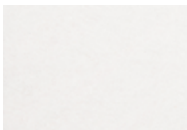
Flame Retardant

Breathable



Felt Color Options

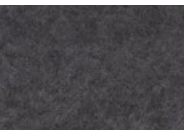
STANDARD COLORS



Frost White



Fog



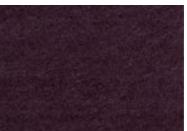
Iron



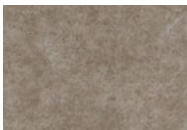
Lavender



Cherry



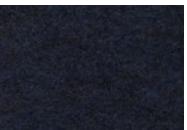
Plum



Latte



Forest Green

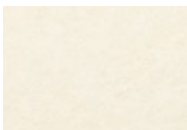


Midnight Blue



True Black

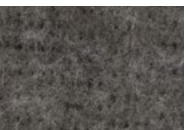
PREMIUM COLORS



Ivory



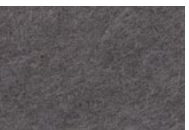
Cloudy



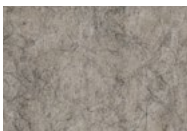
Greige



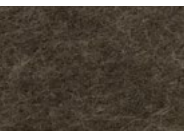
Graphite



Steel



Café



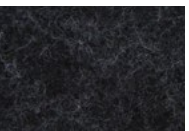
Mocha



Espresso



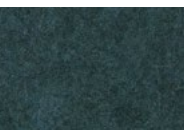
Carbon



Charcoal



Lichen



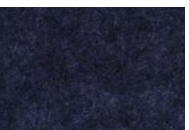
Evergreen



Blueberry



Sky



Navy



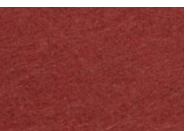
Lime



Lemon



Orange



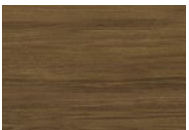
Paprika

NEW

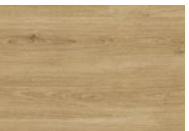
MADERA COLORS*



Natural Oak



Teak



Beech



Grey Ash

*Madera Acoustix wood finish colors may vary from one sample to another reflecting the natural material.





Overview

Squero Hubs Acoustix

DISTRIBUTIONS

-  Direct
-  Direct/Indirect

MOUNTING OPTION

-  Pendant

COLOR RENDERING

- 80 CRI
- 90 CRI

COLOR TEMPERATURES

- 2700K

3000K

3500K

4000K

5000K
- Sola

Duo

Quadro

Full Spectrum

Bios

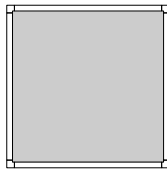
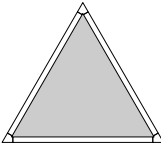
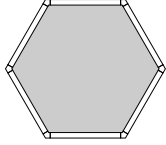
DIRECT OPTICS

- Miniature Reflector Optic
- Parabolic Louver Optic
- High-Efficiency Lambertian Optic

INDIRECT OPTICS

- Widespread Indirect Optic
- Translucent Indirect Optic

SHAPES

-  SQUARE
-  RECTANGLE
-  TRIANGLE
-  HEXAGON

HUBS CONNECTORS

- 2-Way
- 3-Way
- 4-Way

RATINGS & CERTIFICATIONS

- W

D

WELL

Declare Label
- E

5

ETL

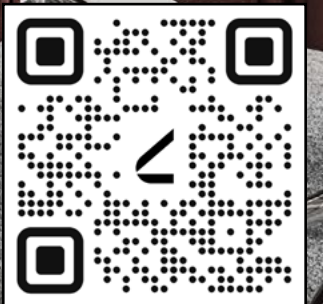
5-year Warranty
- G

Greenwerx Label



Acoustix Collection

Thanks to open concept architecture and multi-use design, today's indoor spaces are much noisier than those of previous generations. To address the rising levels of noise, Lumenwerx offers the ACOUSTIX collection of luminaires with integrated sound-absorbing technology. These innovative lighting solutions not only illuminate spaces but also help reduce ambient noise, creating more comfortable and functional environments.



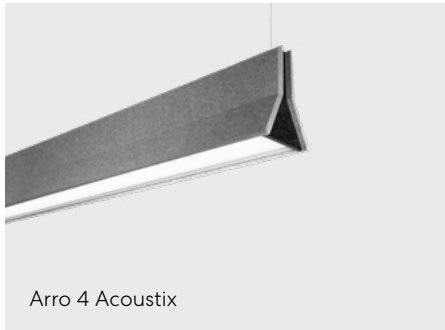
Acoustix Collection
Brochure PDF



Acoustix Collection

Uncompromised
illumination with
excellent sound
absorption

Linears



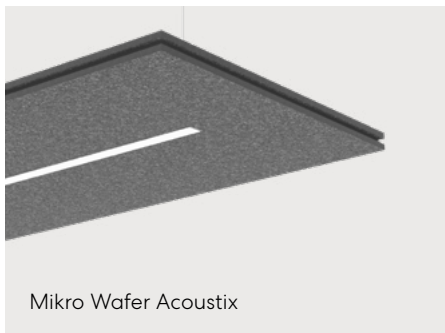
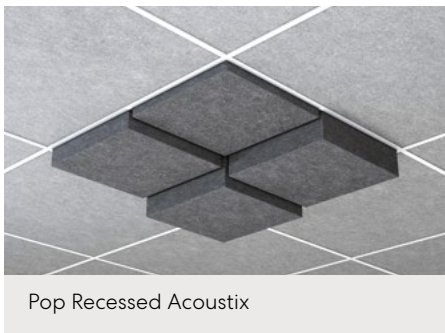
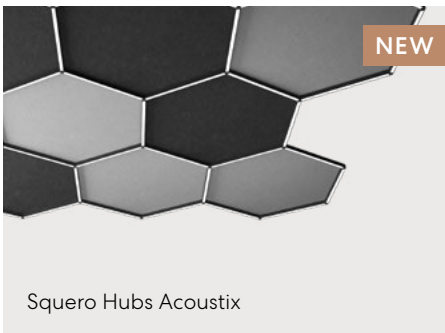
Curvilinears



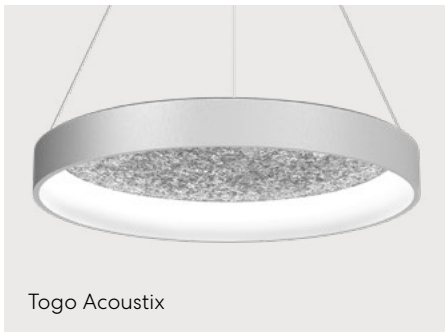
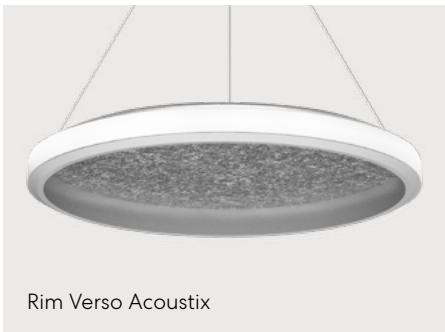
Vertical Acoustix



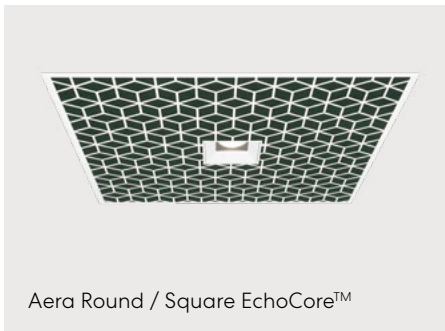
Horizontal Acoustix



Architectural Decorative



EchoCore™ (Additional details are provided in Echocore brochure.)





Mix it up with Pop Box recessed Acoustix, Pop Regressed and Arro 4 Acoustix to add new dimension to a space!

How do acoustics work?

Wide open spaces and clean lines are key features in contemporary design. Elements like polished concrete floors, vaulted ceilings, and exposed ductwork make these spaces visually appealing but can also lead to higher noise levels.



Increase use of Glass



Open Office Concept

GLASS AND OTHER SURFACES

The amount of glass in a space is increasing due to daylight requirements and the modern design of natural light in our built environment. Glass is a very hard smooth surface with a poor absorption rate that creates issues as it bounces sound around.

OPEN OFFICE

The open office concept has largely replaced traditional private offices and cubicles. In these spaces, increased noise levels make effective acoustic strategies essential.

UNFINISHED CEILINGS

Unfinished ceilings contribute to increased noise levels by exposing the ambient sounds of a building's systems, including ductwork, water pipes, conduits, and data raceways.



Unfinished Ceilings



Hard Reflecting Surfaces

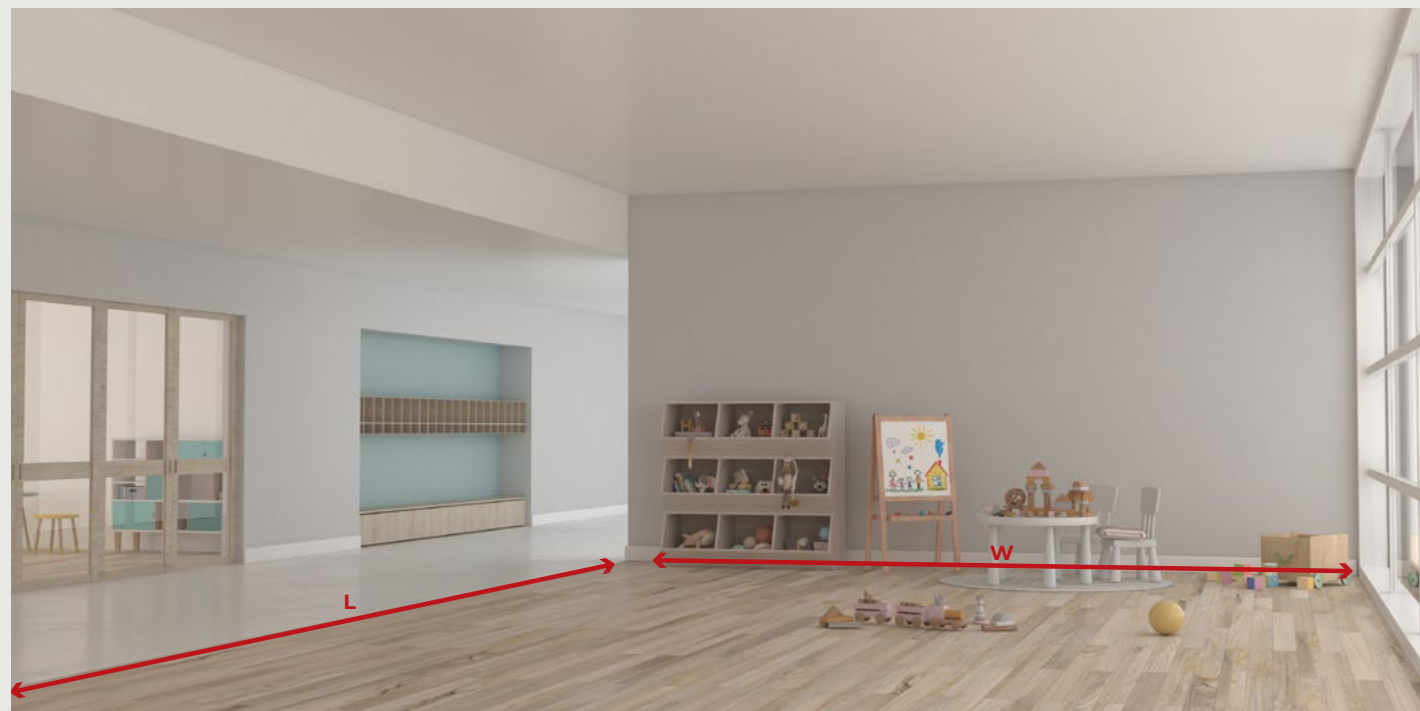


Easy acoustic calculations

Developed with acousticians, the Lumenwerx Acoustix Value Formula (LAVF) is a straightforward equation that uses a ratio to determine the acoustic needs of a space. It assumes a standard ceiling height of 9 feet and the use of 4-foot luminaires. The LAVF is based on the premise that the space has one glass wall, three gypsum board walls, a gypsum board ceiling, and a concrete floor, simulating a poorly performing acoustic environment. By applying the formula, you can determine the number of luminaires needed for "Good," "Better," or "Best" acoustic performance.

For advanced calculations, please contact your regional sales manager. Our team of experts will be happy to assist you.

Good: Reverberation time is reduced by 25%
Better: Reverberation time is reduced by 40%
Best: Reverberation time is reduced by 50%



See next page for illustrated example



Lumenwerx Acoustix Value Formula (LAVF)

1. Calculate the square footage of your room (length x width)
2. Select your luminaire
3. Choose the level of acoustic improvement you are looking for and select the associated Acoustix Value:
😊 Good 😊😊 Better 😊😊😊 Best
4. Use the Lumenwerx Acoustix Value Formula

$$\text{Square Footage} \div \text{Value} = \text{Number of luminaires needed in the room}$$

* Lumenwerx acoustic calculators were developed to act as a guide.
For precise acoustic performance in a space, please consult an acoustician.



Using the formula

Using the Lumenwerx Acoustix Value Calculator table, you can determine the number of acoustic luminaires required in a space by fixture type. We have three levels of recommended sound reduction: good, better, and best. Choosing one of these options will reduce the sound accordingly. The best option indicates the best acoustic improvement. Calculations are based on a standard ceiling height of 9 feet.

For more complex spaces, or specific materials please contact your regional sales manager. We have a team of trained experts that will be happy to assist you with your calculations.

% in reduction in reverberation time		
😊	GOOD	25%
😊😊	BETTER	40%
😊😊😊	BEST	50%

ACOUSTIC PANEL		Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
		GOOD 😊	BETTER 😊😊	BEST 😊😊😊	GOOD 😊	BETTER 😊😊	BEST 😊😊😊
Square	#ASQU22	29	14	8	45	22	14
	#ASQU33	13	6	4	20	10	6
	#ASQU44	7	4	2	11	6	4
Rectangle	#AREC23	19	9	5	30	15	9
	#AREC24	15	7	4	23	11	7
	#AREC25	12	6	3	18	9	6
	#AREC26	10	5	3	15	7	5
	#AREC27	8	4	2	13	6	4
	#AREC28	7	4	2	11	6	4
	#AREC34	10	5	3	15	7	5
	#AREC35	8	4	2	12	6	4
	#AREC36	6	3	2	10	5	3
	#AREC37	6	3	2	9	4	3
	#AREC38	5	2	1	8	4	2
	#AREC45	6	3	2	9	4	3
	#AREC46	5	2	1	8	4	2
	#AREC47	4	2	1	6	3	2
	#AREC48	4	2	1	6	3	2
Triangle	#ATRI2	67	32	18	104	51	32
	#ATRI3	30	14	8	46	23	14
	#ATRI4	17	8	5	26	13	8
Hexagon	#AHEX2	11	5	3	17	8	5

*Lumenwerx acoustic calculators were developed to act as a guide. For precise acoustic performance in a space, please consult an acoustician.



Lumenwerx

Example

Squero Hubs Acoustix Hexagon 2'

- Calculate the square footage of your room:
L: 20 ft x W: 18 ft = 360 sq ft
- Select your luminaire: Squero Hubs Acoustix, Hexagon 2'
- Choose the level of acoustic improvement you are looking for and select the associated Acoustix Value:
😊😊 Better: 8
- Use the Lumenwerx Acoustix Value Formula

360 ÷ 8 = 45 Acoutix Panels

(sq ft) (Acoustix value) (Number of Panels Required)

SQUERO HUBS ACOUSTIX HEXAGON 2'	GOOD 😊	BETTER 😊😊	BEST 😊😊😊
Acoustix value	17	8	5

Sustainability

Our Greenwerx Initiative



At Lumenwerx, sustainability is at the very foundation of our Greenwerx Initiative, ensuring we prioritize eco-friendly practices throughout our operations from product design to manufacturing.

We are committed to reducing our environmental footprint by utilizing energy-efficient materials, minimizing waste, leading upcycling projects, and using 100% renewable energy sources.

Our luminaires are environmentally responsible, meeting Red List-free or Red List-declared standards, with multiple Declare Labels published for transparency. Our products also conform to LEED and WELL Building Standard certification program requirements.

By integrating sustainability into every aspect of our business, we strive to create a brighter future for generations to come.



Product Design
& Innovations



Supply Chain &
Product Composition



Manufacturing
& Clean Energy



Product Maintenance
& End-Of-Life



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