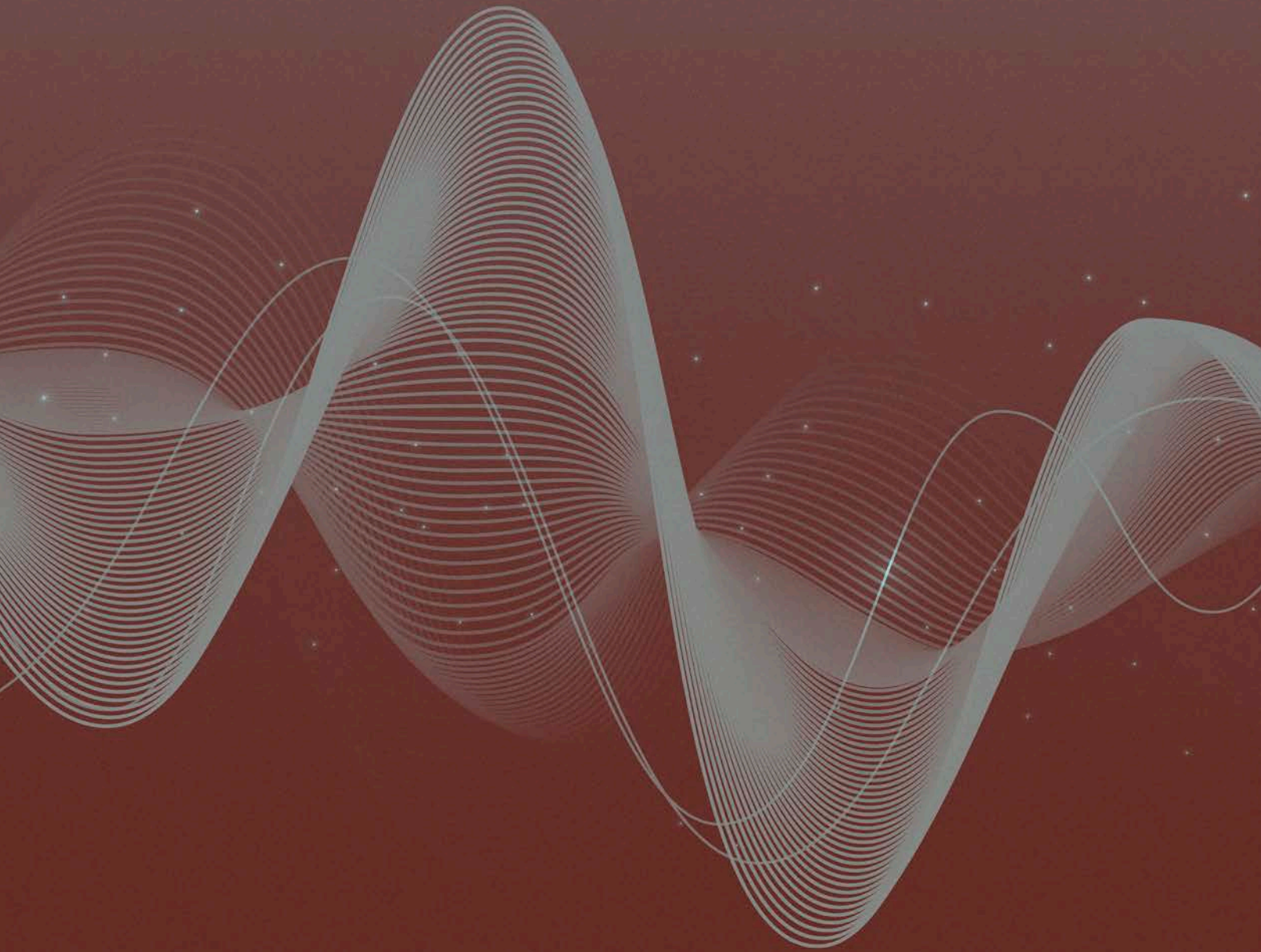


EchoCore™

Precision acoustic technology



Patent Pending

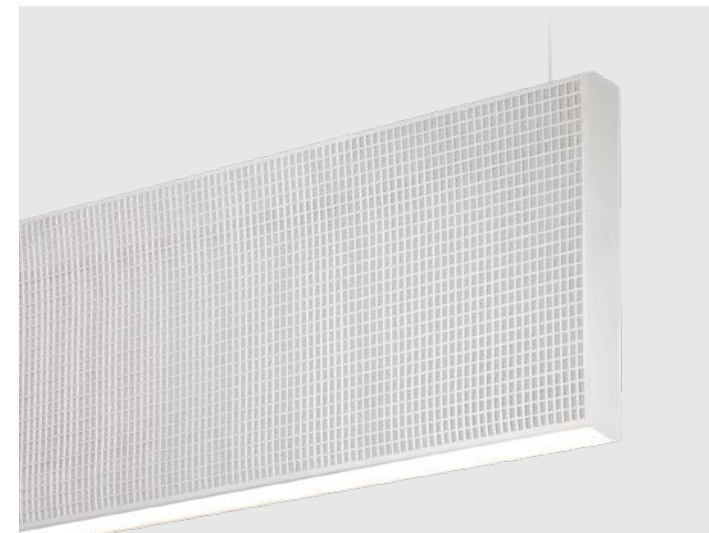
LUMENWERX

Meet EchoCore™

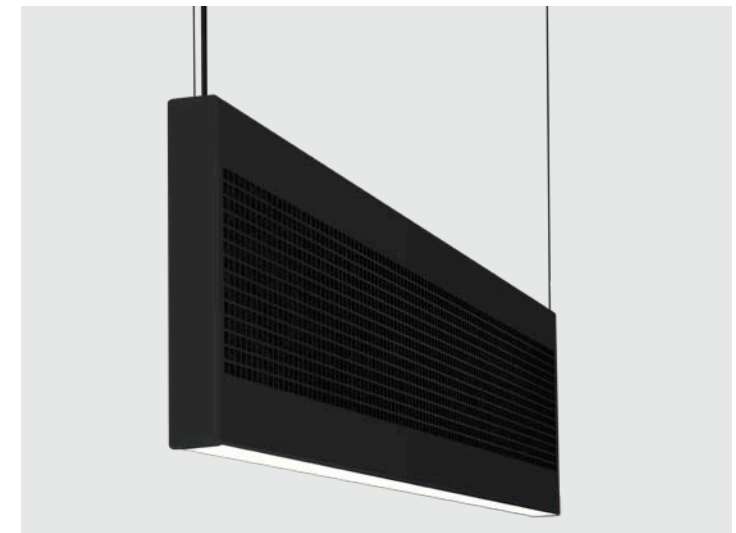
Lumenwerx EchoCore™ technology empowers luminaires to absorb significantly more sound than traditional felt-fitted acoustic fixtures are capable of absorbing.

Acoustic fixtures equipped with EchoCore™ (Audia, Pop, and Aera) deliver exceptional illumination with a variety of circadian, tunable white, and RGB+W solutions, and help to define spaces with a choice of standard, premium, and custom options, as well as with a selection of patterns, shapes, and mounting possibilities.

- Available in Audia, Pop, and Aera
- Pendant, Surface, and Recessed
- Linear, Round, and Square
- 5 patterns + custom
- Up to 4 ft in diameter and 12 ft in length



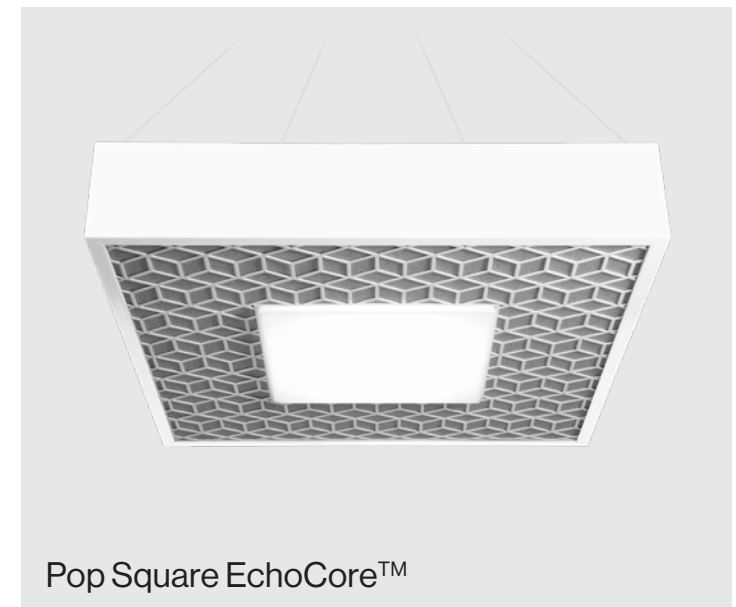
Audia EchoCore™



Audia Half Tone EchoCore™



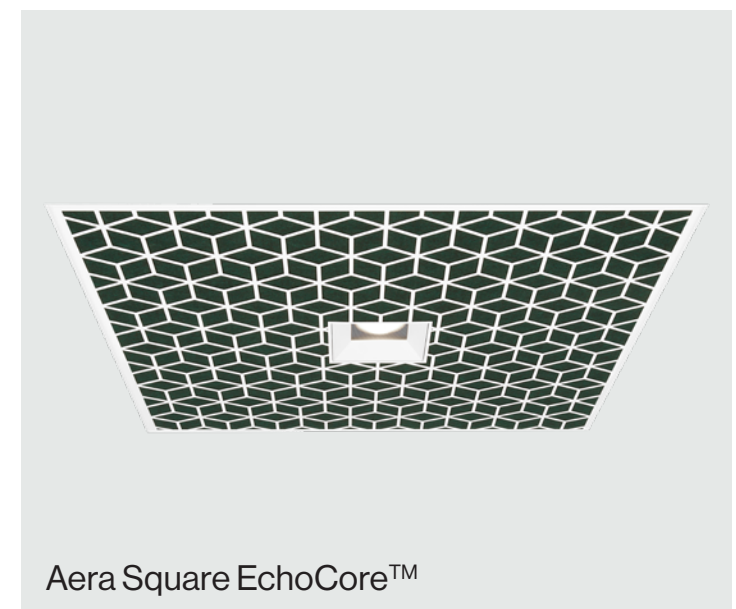
Pop Round EchoCore™



Pop Square EchoCore™



Aera Round EchoCore™



Aera Square EchoCore™



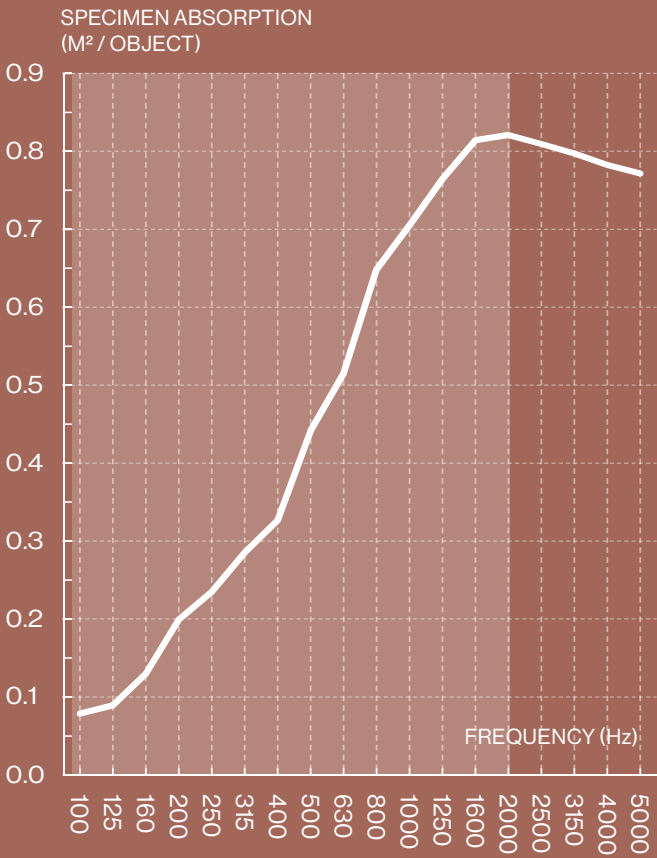
Pop EchoCore™
Add pops of
visual interest
and advanced
acoustic control.

Featured **Pop EchoCore™** in 48 inch with lit and unlit luminaires in round pattern.

EchoCore™ Technology

Our patent-pending EchoCore™ technology applies the science of Helmholtz resonance principles to the practice of acoustic lighting, taking the form of a die-cut aluminum lattice and multiple layers of a fibrous, sound-absorbing core material. When sound waves meet lighting fixtures equipped with the technology, they pass through its aluminum lattice and then are trapped by its core of layered sound-absorbing material, resulting in the reduction of echo and reverberation in the luminaire's immediate environment.

EchoCore™-enabled luminaires are 30% more effective than traditional felt-fitted acoustic fixtures are at reducing sound. To determine how much acoustic improvement a room might require, consult our easy-to-use Acoustic Calculator tool on our website at lumenwerx.com.



Sound Absorption Results – Lumenwerx Audia rows of 7 units spaced 28" o.c., bottom edge of unit 39.125" from the floor.

As demonstrated by the graph above Audia performs well at many frequencies. On average it out performs traditional acoustic felt luminaires by thirty percent.

■ Human hearing frequencies range: 20Hz-2000Hz

30% improvement in sound reduction over traditional acoustic luminaires



Aera EchoCore™
Sleek, simple, and
sophisticated, quietly
defines the space.

Aera Square EchoCore™ recessed with Square pattern.

Pattern Your Design

Enhance a theme, add dimension, create a focal point, or make the lighting fixture the focal point. With five patterns (round, square, linear, cubic, and scallop) and the option to customize, there are plenty of possibilities to provide the best acoustic lighting solutions for your interior spaces.





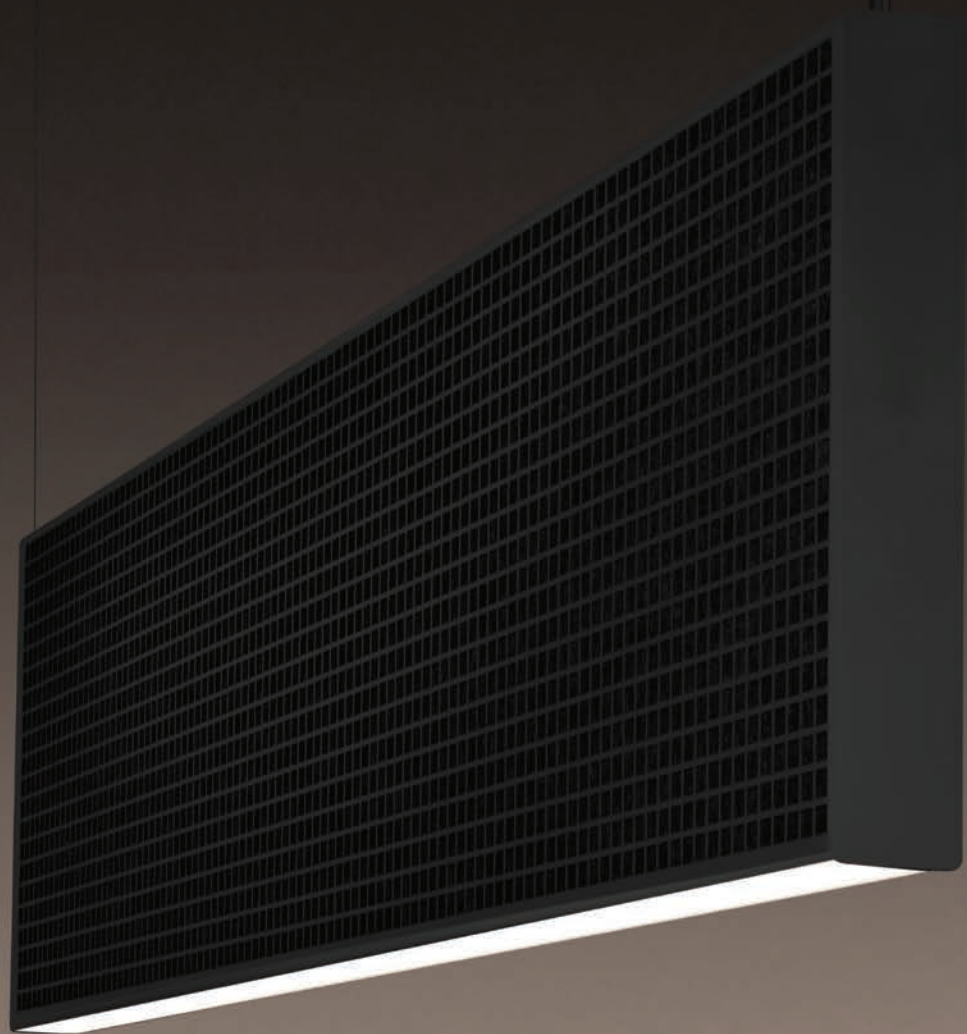
Pop EchoCore™
The lattice pattern of
the luminaire inspires
the interior design.

Featured **Pop EchoCore™** recessed round
with 1 inch drop lens.

Audia EchoCore™

Breaking sound

Audia, our award-winning flagship acoustic lighting offering, is the first of our luminaire families to adopt EchoCore™ technology. The linear pendant fixture is available in individual sections of 4', 8', and 12' lengths, and can be mounted in continuous runs for lengths over 12'.



red**dot** winner 2020

- One of the slimmest acoustic lighting profiles on the market (1.77 in)
- Stylish, easy-to-clean die-cut aluminum
- No compromise on illumination and performance

Audia EchoCore™

Versatility

Sizes (heights)

12 in
16 in
*Available in lit and unlit

Distribution

Direct/Indirect
Direct
Indirect

Color temperature

2700K

bios

Bios

3000K

SOLA

3500K

DUO

4000K

QUADRO

Full Spectrum LED

Color rendering option

80+
90+ (R9>50)
95 CRI

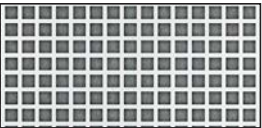
Direct optic

HLO - High-Efficiency Lambertian Optic

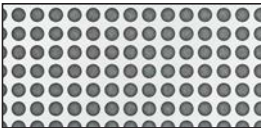
Indirect optics

WIO2 - Widespread Indirect Optic


Fixture pattern




Square




Round



Linear



Cubic



Scallop

Interior colors



Frost white



True black



Cloudy



Fog



Iceberg



Blueberry



Sky



Midnight blue



Ivory



Sand



Latte



Taupe



Café



Mocha



Lemon



Orange



Cherry



Plum



Lime

EchoCore Color Options

Standard



Matte White



Matte Black



Aluminum



Cream



Gray



Steel Gray



Sage Gray



Moss Gray



Black Blue

Designer



Almond



Quartzite Texture



Rust Fine Texture



Green Beige



Yellow



Salmon Pink



Pastel Violet



Red



Purple Red



Storm Blue



Deep Blue



Ocean Blue



Blue Green



Green Smoke



Mint Green



Lime Green

Metallics



Sand



Gold



Dark Gold



Iron Ore



Canyon



Sandblast Copper



Sandalwood

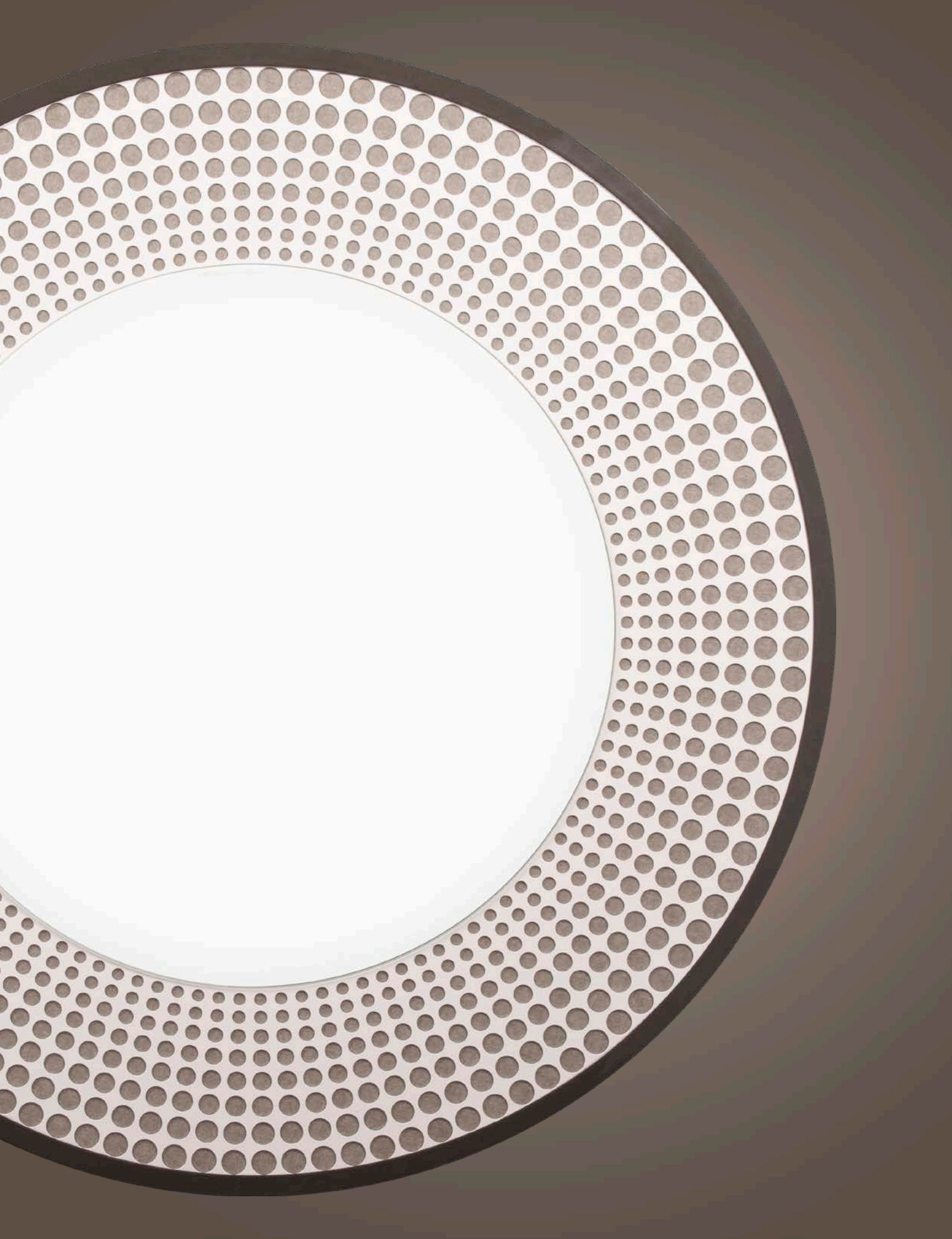
16

17



Audia EchoCore™
Rhythm and repetition
add a quiet balance
to the space.

Featuring a combination of **Audia EchoCore™**
lit and unlit luminaires with scallop pattern



Pop EchoCore™

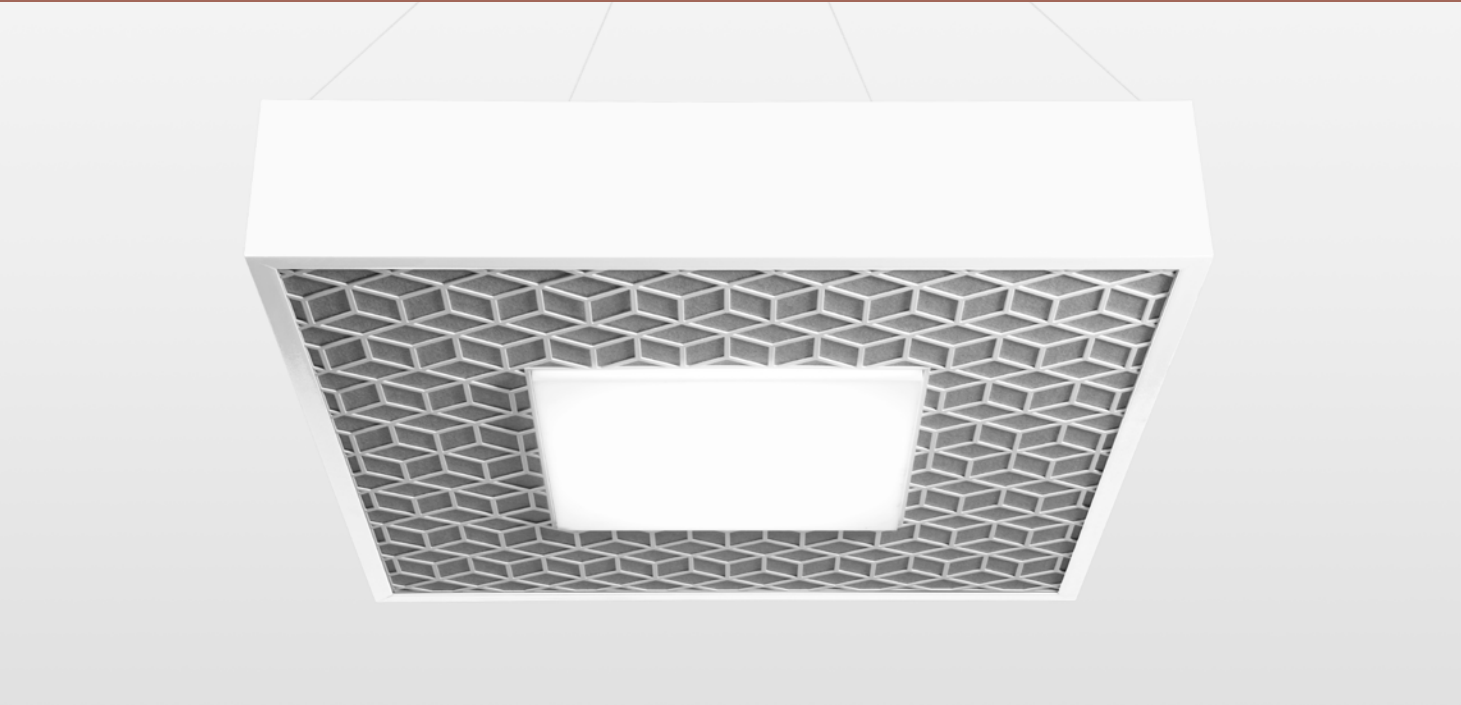
Pop goes the echo

As if our Pop luminaires were not fun enough, those equipped with EchoCore™ technology not only offer lens brightness uniformity enabled by our Unity Pointed (UP) technology, but they also reduce echo and reverberation in their immediate environment.

- Round and Square
- Pendant, Surface, and Recessed
- Unity Pointed (UP) technology ensures uniform lens brightness
- Static White, Bios LED, Full Spectrum LED and Chromawerx (SOLA, DUO, and QUADRO)

Pop EchoCore™

Versatility



Shapes



Round Square

Sizes

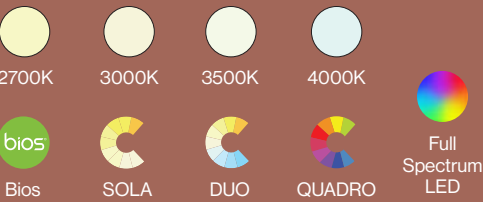
Round: 24", 36" and 48"
Square: 2x2" and 3x3"

*Available in lit and unlit

Distribution

Direct/Indirect
Direct

Color temperature



Color rendering option

80+
90+ (R9>50)
95 CRI

Mounting

Pendant
Recessed
Surface

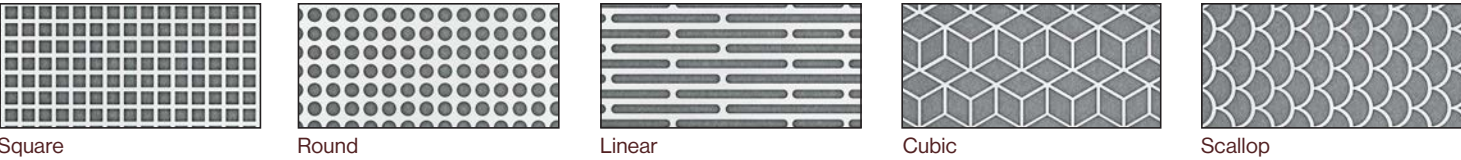
Lens position

Flush
½" drop
1" drop

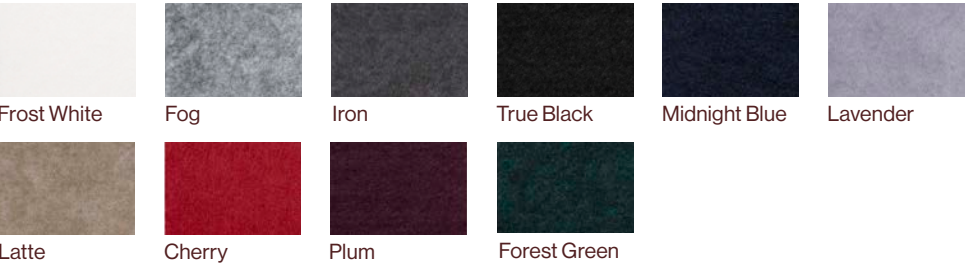
Optic direct

ULO - Uniform Lambertian Optic

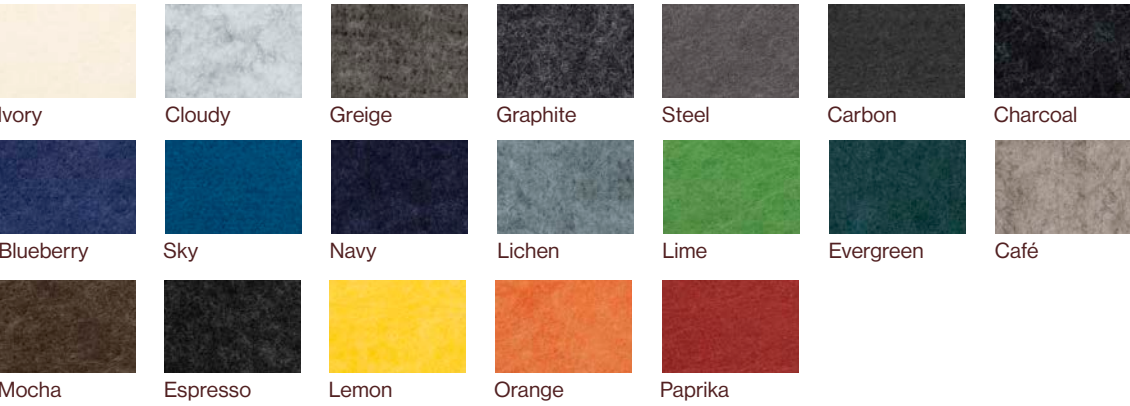
Fixture pattern



Standard Felt Color Options



Premium Felt Color Options



EchoCore Color Options





Pop EchoCore™
Shed light on the task
of decision making.

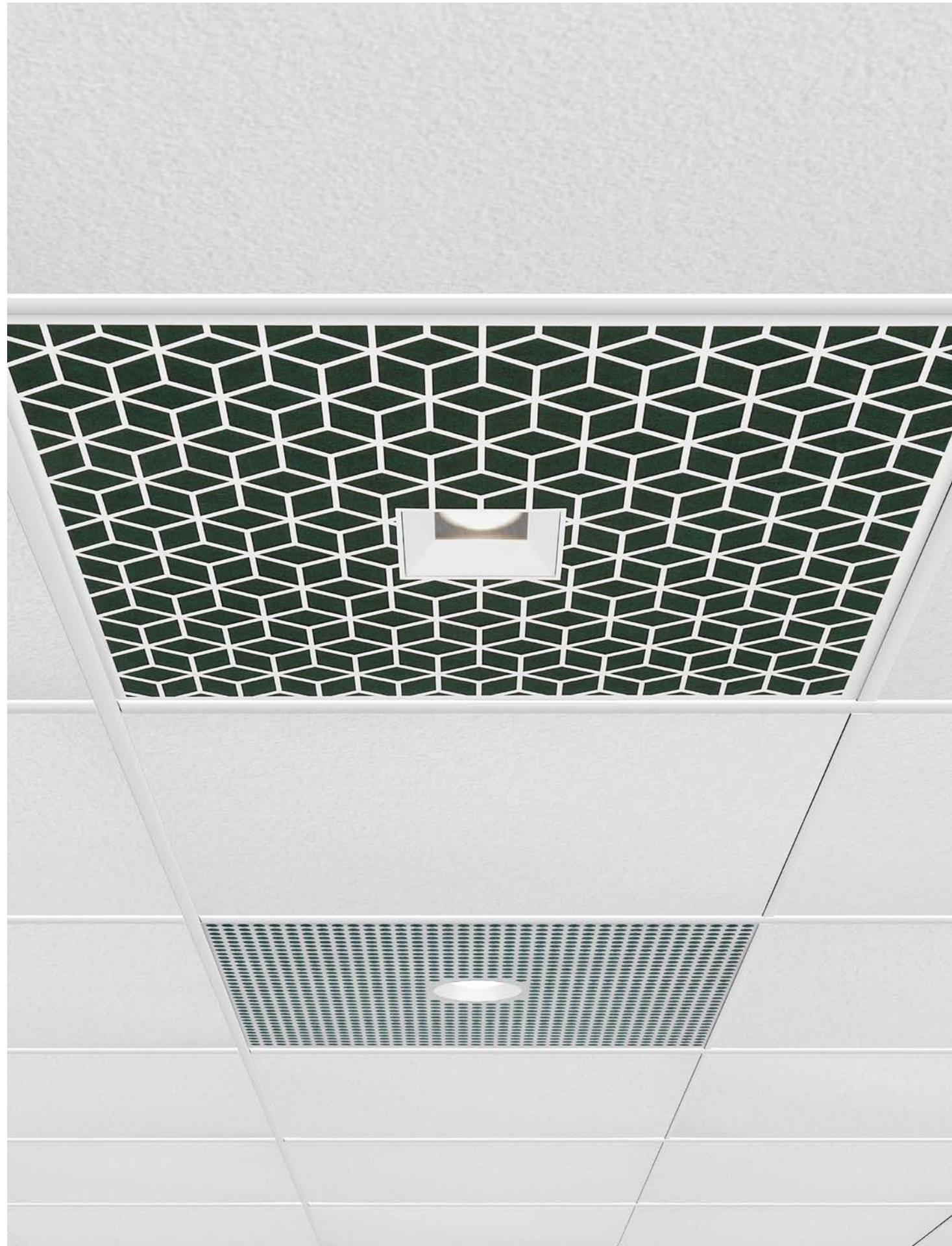
Shown in the foreground is **Pop EchoCore™** pendant square with 1 inch drop square lens and **Audia EchoCore™** in the background both with cubic pattern.

Aera 4" EchoCore™

A new era in sound dampening

In addition to offering the same outstanding optical performance and maximal eye comfort provided by their non-acoustic Aera counterparts, Aera EchoCore™ fixtures reduce echo and reverberation in their immediate environment.

- 4" Round and Square aperture
- Recessed
- No spill light on bevel
- Industry-leading UGR
- 4 beam angles
- XPoint™ Refraction Technology for precise beam angles
- SOLA, DUO, Full Spectrum LED



Aera EchoCore™

Versatility

Shapes



Aperture sizes

Round:
4"
2 x 2 body available in lit and unlit

Square:
4"

Color temperatures



Bevel finishes



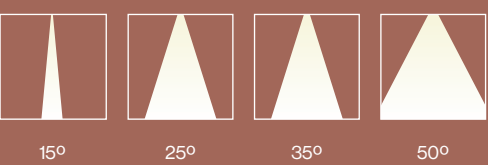
Bevel



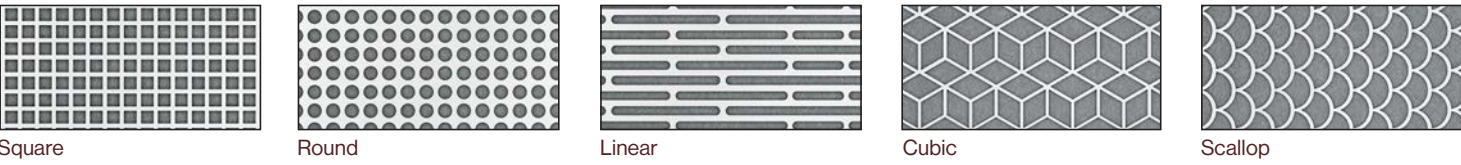
Color rendering options

80+ 90+ 95+

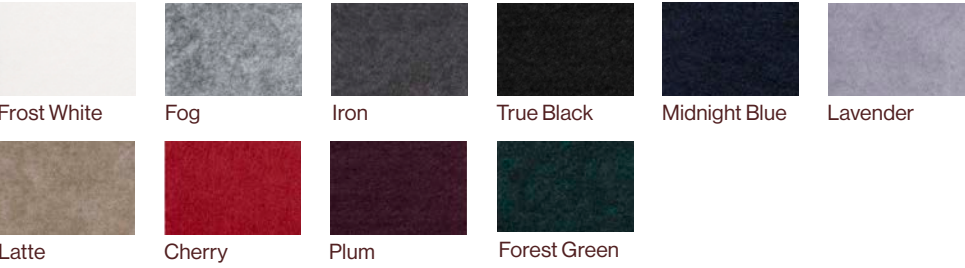
Beam angles



Fixture pattern



Standard Felt Color Options



Premium Felt Color Options



EchoCore Color Options





Aera EchoCore™
A constellation of limitless
possibilities of arrangements.

Featuring **Aera 4"** round recessed **EchoCore™**
and **Aera 4"** downlights and multi-aperture.

EchoCore™

Precision acoustic technology

