Acoustic Collection

Lighting never sounded so good
1 | **Light**

The open office plan: ideal for collaboration and creativity but noise and a lack of privacy can inhibit productivity.

2 | **Acoustic**

Many times, supplemental acoustic treatments are placed on walls and ceilings to absorb sound and curb the issue.

3 | **Light + Acoustic**

Now there is an acoustic and lighting solution that seamlessly blends in any space.

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LightArt’s Acoustic Collection

SILENCE ILLUMINATED

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LightArt
LIGHTART.COM
The Acoustic Collection

Echo
A modular system of illuminated pendants consisting of a series of radiating fins to absorb sound and reduce reverberation.

Static
A linear lighting solution, with dimensions optimized for sound absorption, utilizing high-efficiency LEDs with options for both direct and indirect lighting.

Sola Felt
Sola Felt utilizes 3form’s PET technology, incorporating 50% post-consumer recycled content. The material is designed to be environmentally sound, durable, and acoustically impactful.
The Acoustic Collection offers an opportunity to integrate lighting and sound absorption closer to the source of noise for an optimal acoustic solution.

LightArt’s Echo and Static fixtures provide solutions for any space where sound matters, such as educational facilities, office spaces, restaurants, and reception areas.
**LightArt Echo System Absorption**

LightArt Echo is a pendant that can be connected as a system to cover large surface areas. The chart on the right shows the range of acoustic absorption possible with Echo, from NRC 0.80–1.00, depending on the fin shape, pendant size, and pendant arrangement.

**LightArt Static Absorption**

LightArt Static is offered lit and unlit, with lighting components replaced with sound-absorbing felt. The chart to the right shows the “boost” in acoustic performance gained in the unlit version, though both are effective acoustic solutions. Note the unit of absorption in this case is sabins since Static is an object and not a surface. The equivalent absorption of Static is NRC 1.00.

**Riverbank Acoustical Labs, Geneva, IL**

LightArt utilized two accredited laboratories to measure the sound absorbing properties of Static and Echo, and conducted numerous case studies in a variety of room types. The laboratory measurements yield the two most common acoustic parameters: Noise Reduction Coefficient (NRC) and sabins per object.
LightArt’s research and development team collaborated with acoustics expert Zackery Belanger of Arcgeometer in a pivotal partnership for the Acoustic Collection. The year-long effort included laboratory and field measurements, and yielded a deep understanding of the performance of Static and Echo as effective acoustic and lighting solutions.

Forty laboratory and field tests provided guidance in the evolution and application of Echo and Static.
**Echo Options**

**FIN SHAPES**
Fin shapes in two styles were developed for high sound absorption.

**CONFIGURATION**
Specify Echo in different configurations and fin styles to achieve intriguing geometric patterns engineered to absorb sound.

**LIGHTART ECHO PENDANT ABSORPTION**
NRC: 0.80–1.00
Absorption per fixture: 7.59–15.50 sabins
Average of values taken at 250, 500, 1000, and 2000 Hz

**ILLUMINATION**
Dimmable 9W LED A19 lamp
E26 base, 3000K, 120V
800 lumen standard
Optional 11W (1100 lumens) and 15W (1600 lumens)

**SOLA FELT**
15 options; see page 3 for details
Echo

Playful, versatile, dynamic

Sound is three-dimensional, and so is Echo. Its sculptural form provides sound absorption at the ceiling like traditional acoustic systems, and its vertical components tame the horizontal dimensions of the room.

Echo fixtures have a range of NRC values from 0.80 to 1.00 and efficient absorptive components span between fixtures.
COMMUNAL KITCHENS
(6) 47” Dia x 14” H
8-Fin; Style B
GRID: 3 x 2
PROJECT: Konica Minolta
LOCATION: Chicago, IL
MATERIAL: Sola Felt Nickel
SPECIFIER: EWP Architects

CONFERENCE ROOMS
(10) 35” Dia x 14” H
8-Fin; Style A
GRID: Custom 2 x 5
PROJECT: Research Facility
LOCATION: Elk Grove Village, IL
MATERIAL: Sola Felt Nickel
SPECIFIER: D2

BOLD COLORS
(6) 35” Dia x 14” H
8-Fin; Style B
GRID: 3 x 2
PROJECT: Design Firm
LOCATION: Seattle, WA
MATERIAL: Sola Felt Ruby
THE CAFÉ

The latest outpost of this Seattle-based chain is in a newly-constructed building with beautiful high ceilings and sliding garage doors that make up the south-facing wall. An open kitchen adds to the acoustical complications of the space. While allowing light in year-round, and open-air dining in the summer, the doors limited the potential for acoustical wall solutions. A grid of 24 sculptural Echo fixtures was just what the café needed.

THE RESULTS

The Echo installation resulted in a 20% reduction of the reverberation time at the café. The room remains lively yet comfortable for patron communication.
Static Options

**EXCEPTIONAL ILLUMINATION**
Static offers up to 2,000 lumens per foot of up and down lighting. It utilizes a micro structure diffuser to eliminate glare and comes standard with a 1% dimming driver.

**DIMENSION OPTIONS**
- Height options: 16”, 12”, 6” and 4”
- Width: 4” (lit and unlit); 1.75” (baffle)
- Length options: 49.5” and 97.5”
- Fixtures can be joined together for longer spans, with power drop every 32’

**END CAP OPTIONS**

**LIGHTART STATIC — ABSORPTION**
The Static line was tested in accredited laboratories to study the impact of fixture size and configuration on acoustic performance.

**POWDER COATED**
- White
- Matte Silver
- Black
- Custom options available

**WOOD**
- Oak
- Maple

**SOLA FELT**
15 options; see page 3 for details

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[Graph showing range of human voice and sblens per fixture for various sizes of static fixtures]
Static

Subtle, refined, scalable

Static is a high-performance acoustic light fixture. A layer of air between two layers of PET felt is tuned to absorb the human voice.

Static has an NRC of 1.00, allowing it to have a minimal presence with high impact on reverberation.
MIX COLORS

(15) 12"H x 4"W x 49.5"L
PROJECT: Design Studio
LOCATION: Seattle
MATERIAL: Sola Felt Citrine, Aries, Ruby, Admiral, Oxford, Hunter, Burnt Umber, Cashmere, Zinc, Moon, Nickel, Armor, Mineral, Cast, Ebony

MATCH COLORS

PROJECT: School Cafeteria
LOCATION: Anywhere
MATERIAL: Sola Felt Citrine, Aries, Ruby

OPEN OFFICES

(29) 12"H x 4"W x 49.5"L
(109) 12"H x 4"W x 97.5"L
PROJECT: Wings Credit Union
LOCATION: Apple Valley, MN
MATERIAL: Sola Felt Nickel
CONFIGURATIONS
Numerous options allow designers to arrange Static to meet their specific acoustic and lighting needs.

CUSTOM POWDER COATING
Color match to almost any hue and create a subtle or bold effect with the metal end cap.
THE TASTING ROOM

A busy tasting room recently expanded into a larger refurbished warehouse space. The bar area consists of high ceilings, a sliding glass garage door and a partial wall that divides the bar area from the active brewery.

The space creates an open yet cozy atmosphere, but the reflective materials, high ceiling, and partial wall were acoustic challenges.

THE RESULTS

A 30% reduction in reverberation time transformed the tasting room from a harsh acoustic environment to one in which patrons can comfortably converse for extended periods of time.

CASE STUDY: STATIC BAFFLE

The Woods
Two Beers Brewing
Seattle, WA

Two Beers Brewing’s tasting room has enjoyed growing popularity since opening.

To foster comfortable communication for patrons in the increasingly busy space, we provided a custom 24”H unlit Static Baffle solution to complement the existing lighting scheme.

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**RECOMMENDED USE**

Incorporate both the Static baffles and Static beams to devise a perfect ceiling application that provides an easy integration of lighting and acoustical performance.

**DIMENSION OPTIONS**

**SOLA FELT**
- 15 options; see page 3 for details
Static Baffle
A slim unlit baffle provides a cost conscious solution to maximize acoustical and design value.
Contact Us to Learn More

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