

# DRUM

[SHAPER SENSE]

High Performance Acoustic Lighting



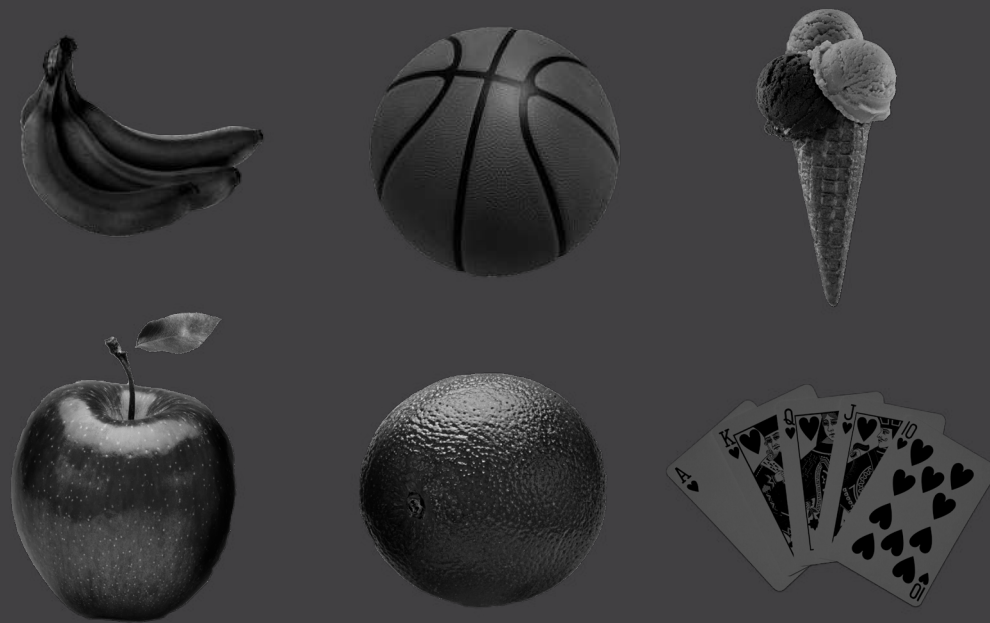
 **COOPER**  
Lighting Solutions

[cooperlighting.com/shapersense](http://cooperlighting.com/shapersense)

# “COLOR IS A VISUAL PERCEPTION AND LIGHT IS THE STIMULUS THAT PRODUCES VISUAL PERCEPTION OF OBJECTS, WITHOUT LIGHT THERE IS NO COLOR.”

What if tomorrow, suddenly, we saw the world in only black or white light – a world devoid of color as we know it. A space where all additive colors of light, when combined, produce white. Or a world where all subtractive colors of light, when combined, produce black. Even sound has color in “white noise” and silence is defined as “black noise.”

Everyday objects that we know today would become one dimensional. Common objects would take on a new meaning and become unfamiliar, uncomfortable and strange.



*“There’s a reason we don’t see the world in black or white.” - C. Kemble*

## COLOR IS LIFE.

Explaining color is the true balance of art and science, where color evokes the sense of emotions and expressed via shape, texture form, value and space. The science can be conveyed as the visual effect of light reflecting and refracting or as light waves of different wavelengths.

Simply put, color is an expression of life and the space as we know it.



INTRODUCING THE SHAPER SENSE DRUM  
ACOUSTIC LIGHTING SERIES...  
COLOR REIMAGINED....



# INFLUENCER

/ˈɪnflʊənsər/

**noun**

noun: **influencer**; plural noun: **influencers**

A person or thing that influences another

Introducing the next series of acoustic lighting products from Shaper Sense...the Drum pendants. These high-performing lighting, sound absorption and blocking products are a true explosion of visual color, texture and depth.

The Drum family includes four thoughtfully designed styles: Duo Drum, Trio Drum, Index Dimensional Drum and Ribsby Drum.

## TRIO INDEX DIMENSIONAL RIBSY DUO

Taking cues from the ingenious felt offering from FilzFelt, Shaper Sense gives designers the ultimate freedom in marrying product to the intended environment. The Drum series takes on the classical shape of a drum, which is familiar and timeless, with creative color and texture customization, bringing over 17 million variations to life.

In addition, our distinctive Index Dimensional and Ribsby pendants are precisely handcrafted by artists in the U.S., creating beautiful works of art.

The Shaper Sense Drum series was honored to receive the Architectural Product Magazine's Innovation Award (PIA 2020) as well as the most esteemed Good Design 2020 award. GOOD DESIGN® is the oldest and the most Prestigious Awards Program. The Chicago Athenaeum Museum of Architecture and Design and Metropolitan Arts Press Ltd.

**GOOD  
DESIGN  
2020**

Architectural Products Magazine's  
**PIA'20**  
product innovation awards

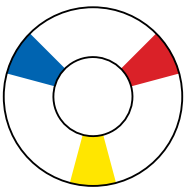


# A VISION OF COLOR IN ANY SPECTRUM

The Shaper Sense Drum pendants feature Filzfelt 100% Wool Design Felt, available in 96 color combinations. The biodegradable and renewable material is moisture resistant, self-extinguishing and known for its thermal and acoustic insulation properties.

The highly saturated and lightfast colors are designed to be used to explore color in any surrounding.

When looking at color basics, we see the spectrum of all color perspectives and color potential, even down to its fundamental level.



**PRIMARY**


THE PRIMARY COLORS ARE BLUE, YELLOW AND RED



626 AZUR

274 SENF

201 ROT



**SECONDARY**

SECONDARY COLORS ARE CREATED BY MIXING PRIMARY COLORS TOGETHER.



265 LAVENDEL

377 MAIGRUN

116 ORANGE



**TERTIARY**

TERTIARY COLORS ARE CREATED FROM COMBINING THE PRIMARY AND SECONDARY COLORS



269 VIOLETT

242 PINK

173 MANGO

548 TURKIS

713 KIWI


124 GELB

Graphics provided from "Visible Light & the Electromagnetic Spectrum from Grids & Guides: A Notebook for Visual Thinkers" © Princeton Architectural Press

# WHICH HUE ARE YOU?

So many colors, so many choices...

"Color is my day long obsession, joy and torment." - Claude Monet



**ANALOGOUS**

ADJACENT COLORS ARE CALLED ANALOGOUS.

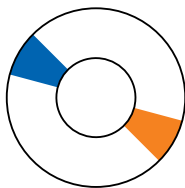


265 LAVENDEL

242 PINK


201 ROT

173 MANGO



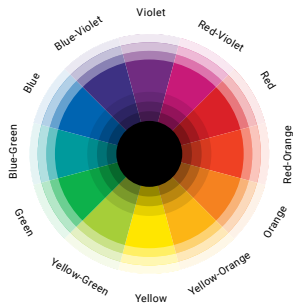
**COMPLEMENTARY**

ANY TWO OPPOSING COLORS ON THE COLOR CIRCLE ARE CALLED COMPLEMENTARY.



626 AZUR

116 ORANGE



**TRADITIONAL COLOR CIRCLE**

A COLOR WHEEL IS AN ABSTRACT DIAGRAM OF COLOR HUES THAT SHOWS THE RELATIONSHIP BETWEEN COLORS CREATED FROM THE PRIMARIES RED, YELLOW, AND BLUE.

WITH THE AVAILABLE PALETTE OF 96 COLORS OF 100% WOOL DESIGN FELT, THE CHOICES ARE ENDLESS.







- Office
- Co-working

#### Shaper Sense Trio Drum

The Shaper Sense Drum Trio is the most versatile of all the drums... with 20 designer patterns to choose from, including the sculptural inspired Erwin Hauer designs, plus 3 choices of felt colors, provide over 17 million options. Used in conjunction with FilzFelt Hanging Panels - unifies the space more than most.

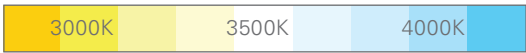


# Shaper Sense Drum: DUO

The Shaper Sense Duo Drum brings bold solid colors into a space. The fixtures offer a choice of two, 3mm felt color options (96 color selections) on the barrel of the fixture as well as the border edge band. The Duo Drum features superior light distribution and color quality and is offered a range of 3200-8200+ lumens in 80 and 90 CRI.

**LIGHT LEVELS OFFERED:**  
1, 2, 3 (3200 to 8200+ Lumens)

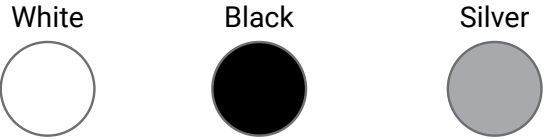
**COLOR TEMPERATURES:**  
3000K, 3500K, 4000K



**CRI: 80 or 90**

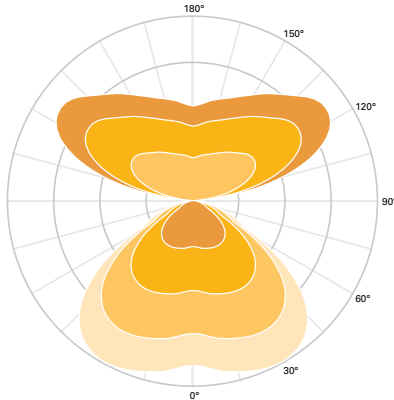


**Canopy Colors:**



- DRIVERS AND CONTROL:**
- **STD:** 0-10V (1% Dimming)
  - **LH:** (Lutron Hi-Lume 1% Eco System)
  - **DCD:** 0-10V (0.1 Dimming)

## THE SHAPE OF LIGHT: POLAR PLOT



**Test Method:** LM-79-08  
**Catalog Number:** ShSe-DRUM-1-L40-80-UNV-STD  
**Description:** SHAPER SENSE CIRCLE LIGHT LEVEL 1  
**LED Light Source:** 4000K CCT, 80 CRI

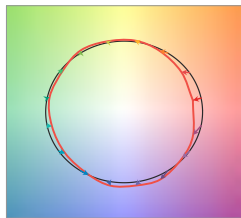
The illuminance distribution shows great output for general ambient lighting. With 55% up and 45% down, the Duo independent light engine provides great spacing for layouts and plenty of light for task work.

## THE COLOR OF LIGHT: ANSI TM-30-18 COLOR RENDITION REPORT

### Summary

**Luminaire Lumens:** 4175.9 lumens  
**Efficacy:** 147.6 lm/W  
**Input Watts (W):** 28.3

### Color Vector Graphics - TM-30



**Fidelity - Rf:** 93  
**Gamut - Rg:** 100  
**R9:** 69  
**(3000K example)**  
— Reference Illuminant  
— Test Source

## OH THE COLORS WE GET TO KNOW...

The Duo Drum has 96 barrel base layer colors and 96 border edge band color choices, providing a solution in any decorative application.



96 base layer options  
**BLXXX**



96 border edge band options  
**BEBXXX**



"We live in a rainbow of chaos." - Paul Cezanne



9,216  
# of Duo Drum combinations

## EXPLORE THE COLORS OF THE DUO DRUM



CALM BEFORE THE STORM  
(choose from 25 neutrals)



BLUE, HUE HUE...  
(choose from 22 shades of blue)



HELLO COLOR...  
(choose from 49 colorful shades)



# Shaper Sense Drum: TRIO

The Shaper Sense Trio Drum includes a choice of 20 uniquely designed FilzFelt pattern options, including new sculptural Erwin Hauer designs. The contemporary patterns are available in 96 felt colors, as is the base layer and the border edge band, creating a stunning ensemble for a truly unique and stylish pendant.

The Trio Drum features superior light distribution and color quality and is available in a range from 3200-8200+ lumens and in 80 and 90 CRI to meet specific application needs.

**LIGHT LEVELS OFFERED:**  
1, 2, 3 (3200 to 8200+ Lumens)

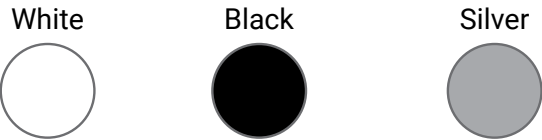
**COLOR TEMPERATURES:**  
3000K, 3500K, 4000K



**CRI: 80 or 90**

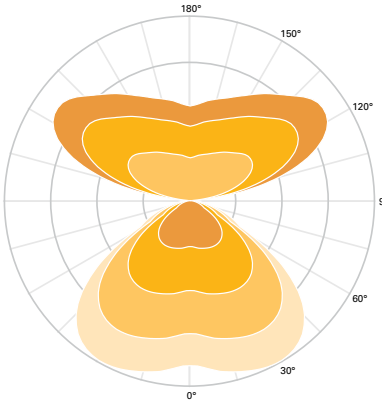


**Canopy Colors:**



- DRIVERS AND CONTROL:**
- **STD:** 0-10V (1% Dimming)
  - **LH:** (Lutron Hi-Lume 1% Eco System)
  - **DCD:** 0-10V (0.1 Dimming)

## THE SHAPE OF LIGHT: POLAR PLOT



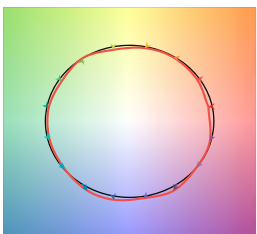
**Test Method:** LM-79-08  
**Catalog Number:** ShSe-DRUM-1-L40-80-UNV-STD  
**Description:** SHAPER SENSE CIRCLE LIGHT LEVEL 1  
**LED Light Source:** 4000K CCT, 80 CRI

The illuminance distribution shows great output for general ambient lighting. With 55% up and 45% down, the Trio independent light engine provides great spacing for layouts as well as plenty of light for task work.

## THE COLOR OF LIGHT: ANSI TM-30-15 COLOR RENDITION REPORT

**Summary**  
Luminaire Lumens: 4175.9 lumens  
Efficacy: 147.6 lm/W  
Input Watts (W): 28.3

### Color Vector Graphics - TM-30

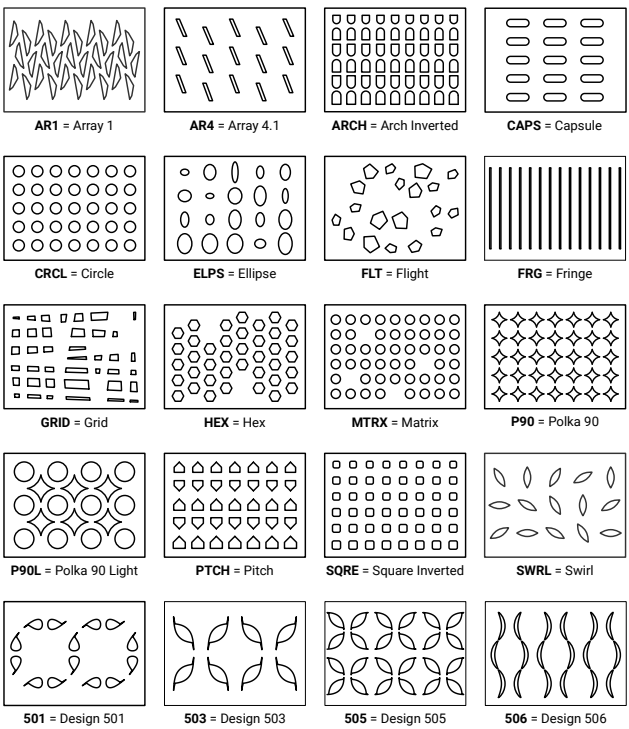


Fidelity - Rf: 93  
Gamut - Rg: 100  
R9: 69  
(3000K example)  
— Reference Illuminant  
— Test Source

"One can speak poetry just by arranging colors well." - Vincent van Gogh

## SO MANY COLORS, PATTERNS AND SO MANY COMBINATIONS

The Trio Drum has 20 different designer patterns, including the new Erwin Hauer Studio series, providing differentiation, depth and shadow textures. Designers have creative flexibility to produce stunning looks and as always, add boldness with 96 border edge band felt color options.



20 overlay patterns  
**OPXXX**

96 overlay pattern felt colors  
**OPCXXX**



96 base layer options  
**BLXXX**



96 border edge band options  
**BEBXXX**





# DESIGNER PATTERNS FOR DESIGNER SPACES

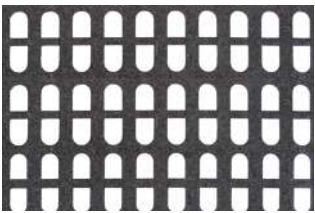
The Shaper Sense Trio Drum hosts 20 patterns from the FilzFelt hanging pattern product line. These patterns were developed by world class design firms for FilzFelt, including the latest designs from the late sculpturist, Erwin Hauer. These patterns transcend style in any space.



AR1 = ARRAY 1



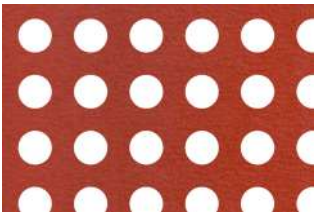
AR4 = ARRAY 4.1



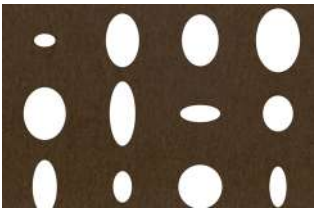
ARCH = ARCH INVERTED



CAPS = CAPSULE



CRCLE = CIRCLE



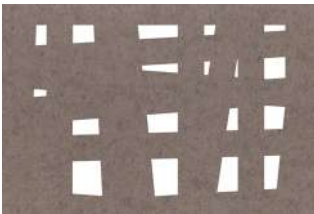
ELPS = ELLIPSE



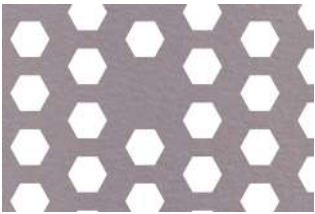
FLT = FLIGHT



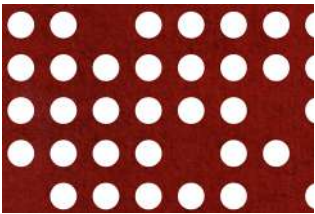
FRG = FRINGE



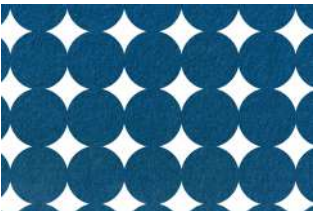
GRID = GRID



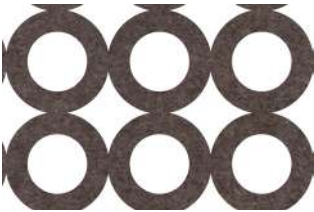
HEX = HEX



MTRX = MATRIX



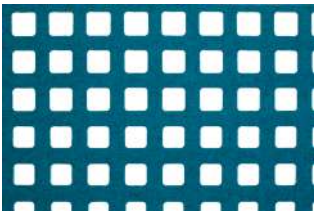
P90 = POLKA 90



P90L = POLKA 90 LIGHT



PTCH = PITCH



SQRE = SQUARE INVERTED



SWRL = SWIRL



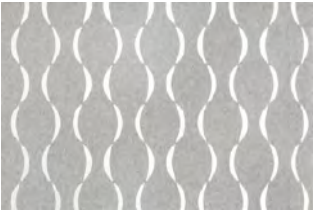
501 = DESIGN 501



503 = DESIGN 503



505 = DESIGN 505



506 = DESIGN 506

17,694,720

# of Trio Drum combinations

ARO ARRAY 1



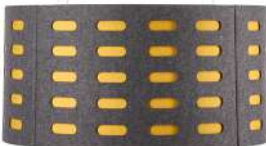
AR1



CAPSULE



CAPS



FLIGHT



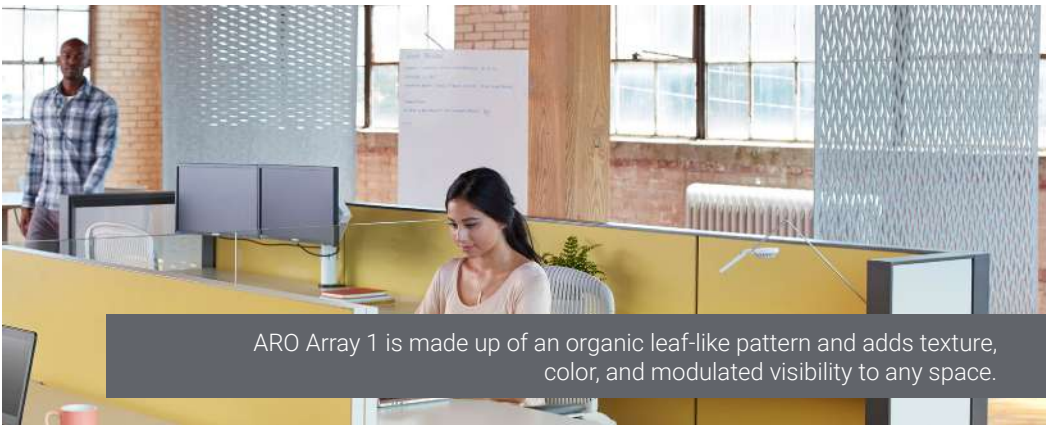
FLT



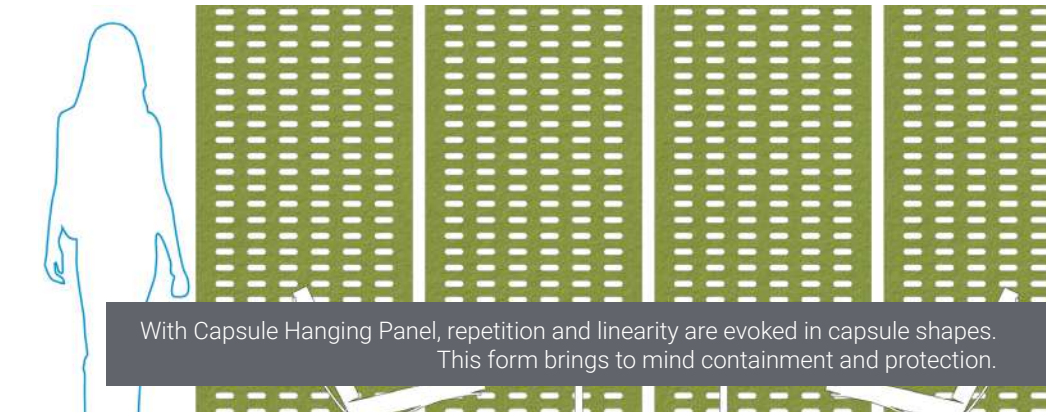
POLKA LIGHT



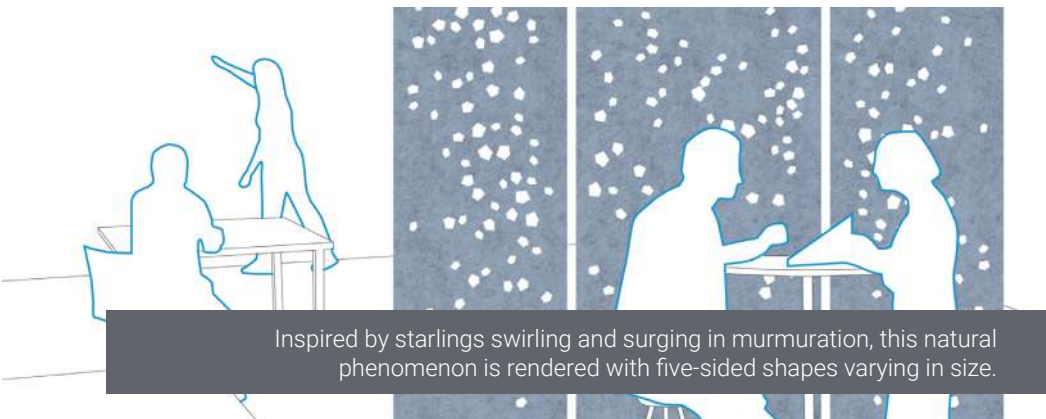
P90L



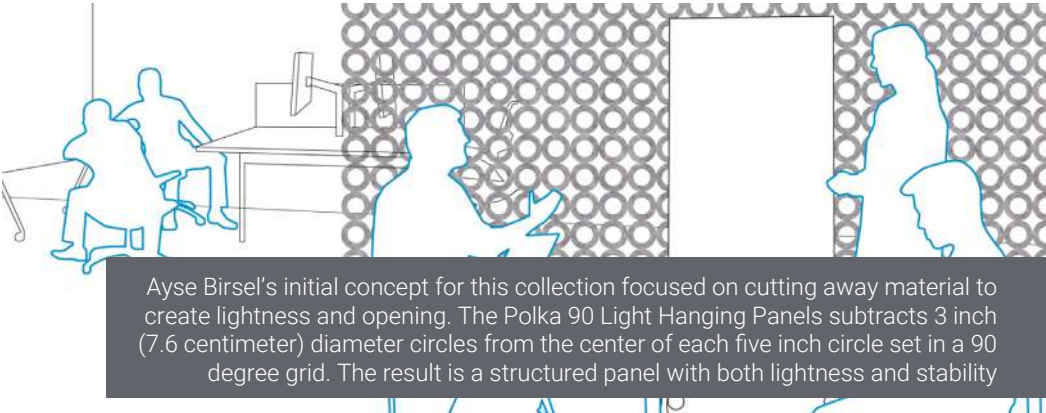
ARO Array 1 is made up of an organic leaf-like pattern and adds texture, color, and modulated visibility to any space.



With Capsule Hanging Panel, repetition and linearity are evoked in capsule shapes. This form brings to mind containment and protection.



Inspired by starlings swirling and surging in murmuration, this natural phenomenon is rendered with five-sided shapes varying in size.



Ayşe Birsel's initial concept for this collection focused on cutting away material to create lightness and opening. The Polka 90 Light Hanging Panels subtracts 3 inch (7.6 centimeter) diameter circles from the center of each five inch circle set in a 90 degree grid. The result is a structured panel with both lightness and stability



# Shaper Sense Drum: INDEX DIMENSIONAL

The Shaper Sense Index Dimensional Drum series presents handcrafted three-dimensional felt texture designs applied to cork and acoustic substrate, created by artists for FilzFelt and Shaper Sense. The pendants feature superior light distribution and color quality, while offering a range of 3200-8200+ lumens in 80 and 90 CRI.

**LIGHT LEVELS OFFERED:**  
1, 2, 3 (3200 to 8200+ Lumens)

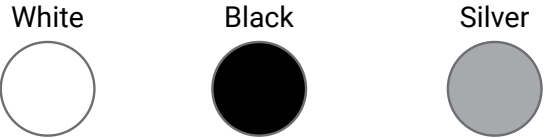
**COLOR TEMPERATURES:**  
3000K, 3500K, 4000K



**CRI: 80 or 90**



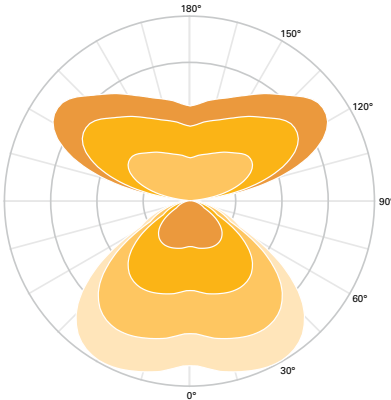
**Canopy Colors:**



**DRIVERS AND CONTROL:**

- **STD:** 0-10V (1% Dimming)
- **LH:** (Lutron Hi-Lume 1% Eco System)
- **DCD:** 0-10V (0.1 Dimming)

## THE SHAPE OF LIGHT: POLAR PLOT



**Test Method:** LM-79-08  
**Catalog Number:** ShSe-DRUM-1-L40-80-UNV-STD  
**Description:** SHAPER SENSE CIRCLE LIGHT LEVEL 1  
**LED Light Source:** 4000K CCT, 80 CRI

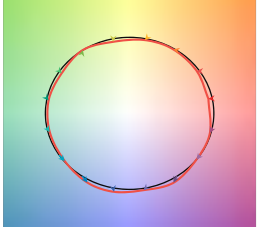
The illuminance distribution shows great output for general ambient lighting. With 55% up and 45% down, the Index Dimensional independent light engine provides great spacing for layouts and plenty of light for task work.

## THE COLOR OF LIGHT: ANSI TM-30-15 COLOR RENDITION REPORT

### Summary

Luminaire Lumens: 4175.9 lumens  
Efficacy: 147.6 lm/W  
Input Watts (W): 28.3

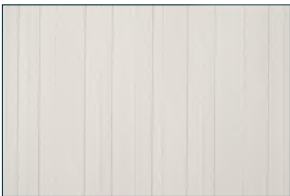
### Color Vector Graphics - TM-30



Fidelity - Rf: 93  
Gamut - Rg: 100  
R9: 69  
(3000K example)  
— Reference Illuminant  
— Test Source

## HANDCRAFTED PATTERNS FOR AN ORGANIC LOOK

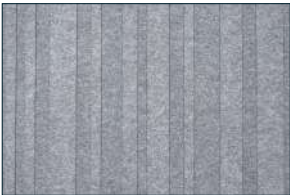
The Index Dimensional Drum pendants are handcrafted in the U.S. The offering includes eight different color pattern sets, offering a shadowing effect from repeated rectangle pieces. Choose one color to keep the patterning subtle or play up the dimensionality with multiple colors. In addition, like all Shaper Sense Drums fixtures, select from 96 border edge band colors to create cohesiveness or contrast.



All white palette  
**WHITE100** - 100 Wollweiss



All heathered white palette  
**WHITE150** - 150 weiss



All light gray palette  
**GRAY170** - 170 Asche



All dark gray palette  
**GRAY175** - 175 Asche



White and gray blend  
**WHITEGRAY** - 100 Wollweiss, 150 weiss, 170 Asche



Blue and gray blend  
**BLUEGRAY** - 626 Azur, 150 Weiss, 170 Asche, 175 Graphit, 286 H'Blau, 272 Royal



Green and gray blend  
**GREENGRAY** - 732 Farn, 150 Weiss, 170 Asche, 175 Graphit, 300 Anthrazit, 384 Lind



Yellow and gray blend  
**YELLOWGRAY** - 274 Senf, 150 Weiss, 170 Asche

8 Index Dimensional  
color options  
**GRAY170**

96 border edge band options  
**BEBXXX**



"Color helps to express light – not the physical phenomenon, but the only light that really exists, that in the artist's brain." - Henry Matisse

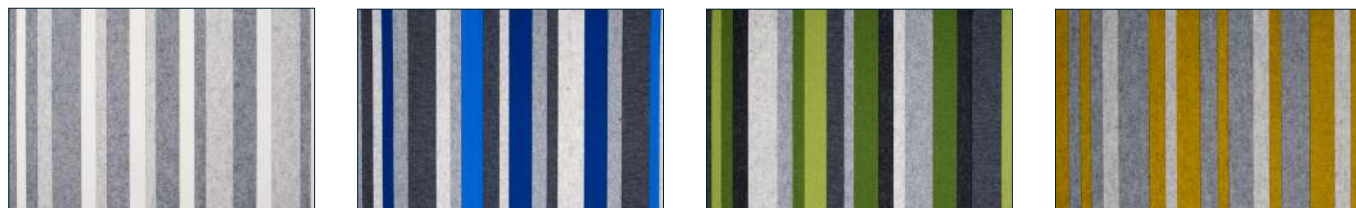




### THE NATURALS



### A LITTLE DEPTH OF COLOR



## INDEX DIMENSIONAL DRUM...MODERN TEXTURE



Index Dimensional Drum follows in line with FilzFelt wall panels that captures light and shadow in a pattern of repeated and staggered rectangles. The design combines 100% wool felt with natural cork composite backing – two materials known for their acoustic properties – which then adheres to acoustic sounds absorbing substrate. This series truly draws interest.



These handcrafted patterns add a dimension for a dynamic effect. The panels are created by artisans in the U.S.

# 768

# of Index Dimensional Drum combinations



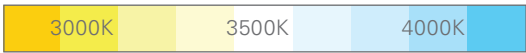
# Shaper Sense Drum: RIBSY

The Shaper Sense Ribsby Drum pendants feature handcrafted three-dimensional felt texture designs applied to cork and acoustic substrate, created by artists for FilzFelt and Shaper Sense.

The Ribsby series offers superior light distribution and color quality in 80 and 90 CRI. Designers can choose from three light levels ranging from 3200-8200+ lumens.

**LIGHT LEVELS OFFERED:**  
1, 2, 3 (3200 to 8200+ Lumens)

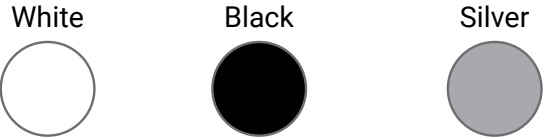
**COLOR TEMPERATURES:**  
3000K, 3500K, 4000K



**CRI: 80 or 90**

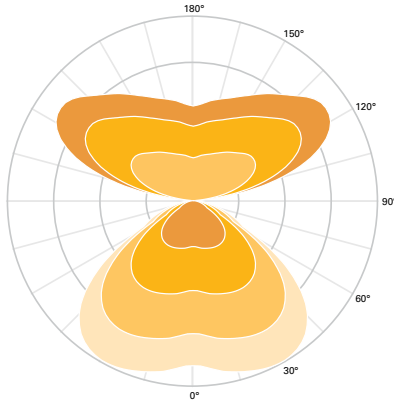


**Canopy Colors:**



- DRIVERS AND CONTROL:**
- **STD:** 0-10V (1% Dimming)
  - **LH:** (Lutron Hi-Lume 1% Eco System)
  - **DCD:** 0-10V (0.1 Dimming)

## THE SHAPE OF LIGHT: POLAR PLOT



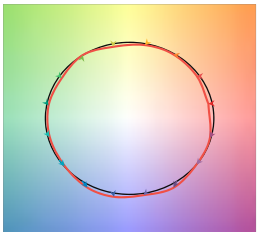
**Test Method:** LM-79-08  
**Catalog Number:** ShSe-DRUM-1-L40-80-UNV-STD  
**Description:** SHAPER SENSE CIRCLE LIGHT LEVEL 1  
**LED Light Source:** 4000K CCT, 80 CRI

The illuminance distribution shows great output for general ambient lighting. With 55% up and 45% down, the Ribsby independent light engine provides great spacing for layouts and plenty of light for task work.

## THE COLOR OF LIGHT: ANSI TM-30-15 COLOR RENDITION REPORT

**Summary**  
Luminaire Lumens: 4175.9 lumens  
Efficacy: 147.6 lm/W  
Input Watts (W): 28.3

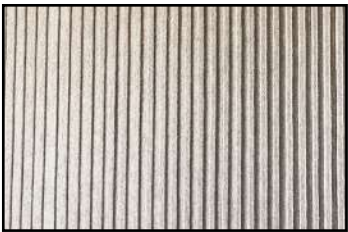
### Color Vector Graphics - TM-30



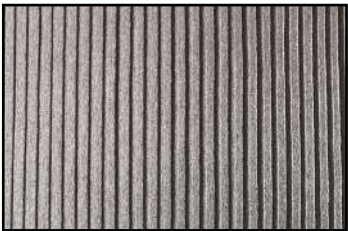
Fidelity - Rf: 93  
Gamut - Rg: 100  
R9: 69  
(3000K example)  
— Reference Illuminant  
— Test Source

## HANDCRAFTED PATTERNS FOR A MINIMALISTIC LOOK

The Ribsby Drum has a deep ribbed texture created with thick wool felt strips oriented on edge in alternating heights. Handcrafted in the U.S., the offering includes three natural color pattern sets with subtle color variation between the felt strips to create rich depth and texture. In addition, like all Shaper Sense Drums fixtures, the selection of the border edge band in 96 colors can add cohesiveness or contrast.



RIB150



RIB170



RIB175

3 natural color options  
**RIBXXX**

96 border edge band options  
**BEBXXX**



"The best color in the whole world is the one that looks good on you." - Coco Chanel

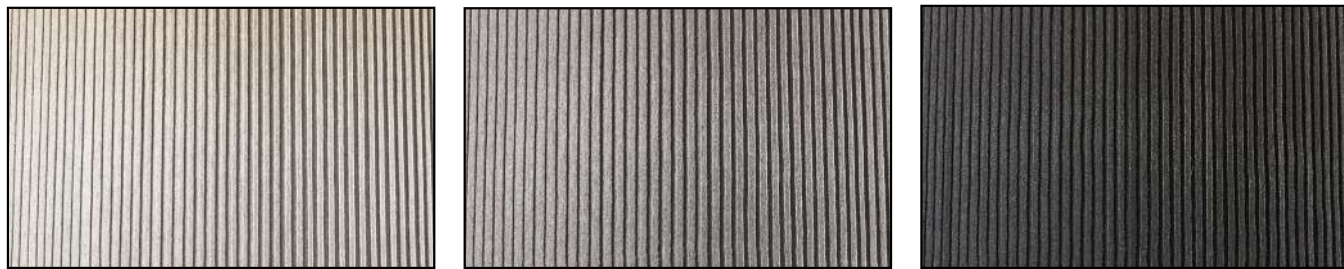




## RIBSY DRUM...MINIMALISTIC TEXTURE



The Ribsy Drum follows in line with FilzFelt wall panels that has a deep ribbed texture created with thick wool felt strips oriented on edge in alternating heights. The panels are applied to a cork backer and then to acoustic substrate, which provide ultimate sound absorbing value. The subtle color variation between the felt strips create rich depth and texture for a simplistic and elegant solution.



These panels are handcrafted with high attention to detail that make this product series special and bring a richness unlike most commercial goods. The panels are created by artisans in the U.S.

**384** # of Ribsy Drum combinations

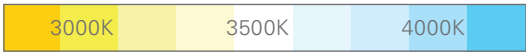


# Shaper Sense - Circle

The Shaper Sense Circle is the light engine for the Drum series. As a stand alone extruded 25-inch diameter light engine, it offers its own set of superior characteristics. The lumen levels range from 3200+ to almost 9000 lumens, all delivered from a ½-inch height.

**LIGHT LEVELS OFFERED:**  
1, 2, 3 (3200 to 8200+ Lumens)

**COLOR TEMPERATURES:**  
3000K, 3500K, 4000K

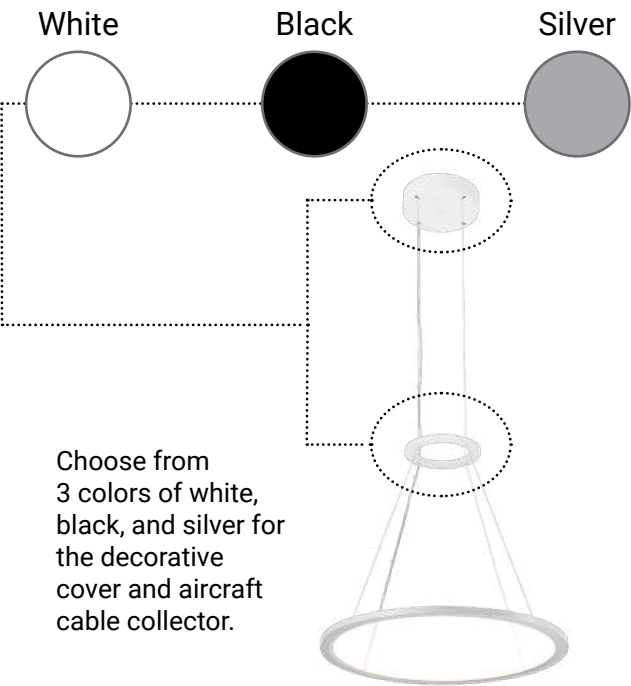


**CRI:** Choose from 80 or 90 CRI choices.

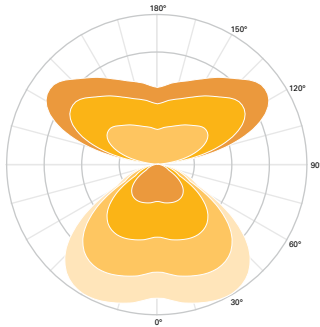


- DRIVERS AND CONTROL:**
- **STD:** 0-10V (1% Dimming)
  - **LH:** (Lutron Hi-Lume 1% Eco System)
  - **DCD:** 0-10V (0.1 Dimming)

**Canopy Colors:**



## THE SHAPE OF LIGHT: POLAR PLOT



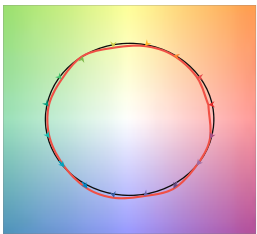
**Test Method:** LM-79-08  
**Catalog Number:** ShSe-DRUM-1-L40-80-UNV-STD  
**Description:** SHAPER SENSE CIRCLE LIGHT LEVEL 1  
**LED Light Source:** 4000K CCT, 80 CRI

The illuminance distribution shows great output for general ambient lighting. With 55% up and 45% down, the Circle independent light engine provides great spacing for layouts and plenty of light for task work

## THE COLOR OF LIGHT: ANSI TM-30-15COLOR RENDITION REPORT

**Summary**  
Luminaire Lumens: 4175.9 lumens  
Efficacy: 147.6 lm/W  
Input Watts (W): 28.3

### Color Vector Graphics - TM-30

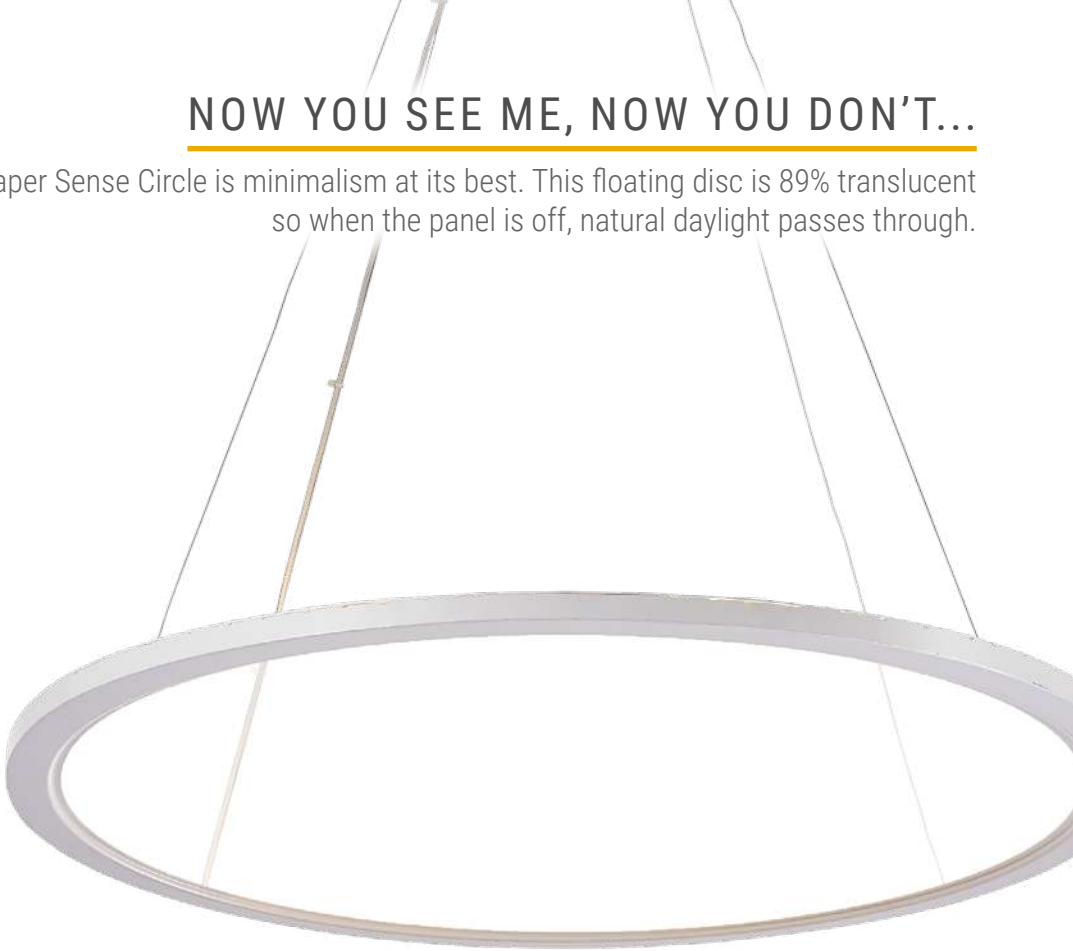


Fidelity - Rf: 93  
Gamut - Rg: 100  
R9: 69  
(3000K example)  
— Reference Illuminant  
— Test Source

*"In nature, light creates the color.  
In the picture, color creates the light."*  
- Hans Hoffman

## NOW YOU SEE ME, NOW YOU DON'T...

The Shaper Sense Circle is minimalism at its best. This floating disc is 89% translucent so when the panel is off, natural daylight passes through.



### THE FLOATING DISC

0.5" disc height x 25" diameter circle  
[12.7mm disc height x [635mm] diameter circle]







- **Commercial**
  - **Office**
- Shaper Sense Circle**

At a mere ½-inch height and 25-inch diameter, the Shaper Sense Circle is like a transparent floating disc. At almost 9000 lumens and 55/45 distribution, the pendant provides both indirect and direct ambient lighting, satisfying any setting. The slender style hosts an 89 percent transparent lens, which hardly casts any shadows when off and virtually disappears. When on, the Circle can adequately light up any space with a slim form factor.





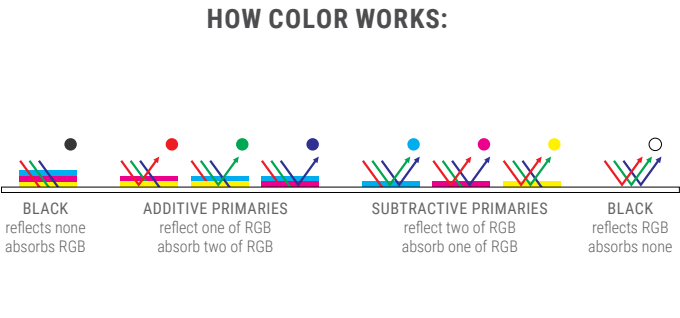


# COLOR. LIGHT. SOUND.

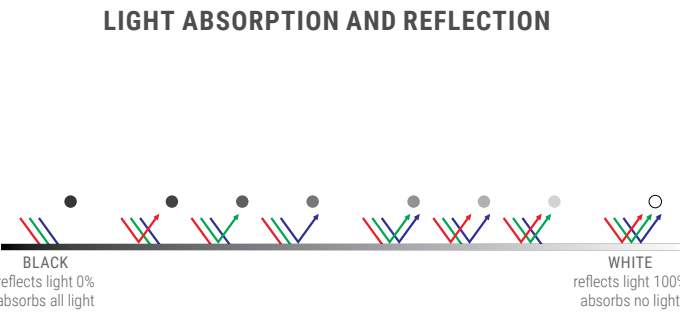
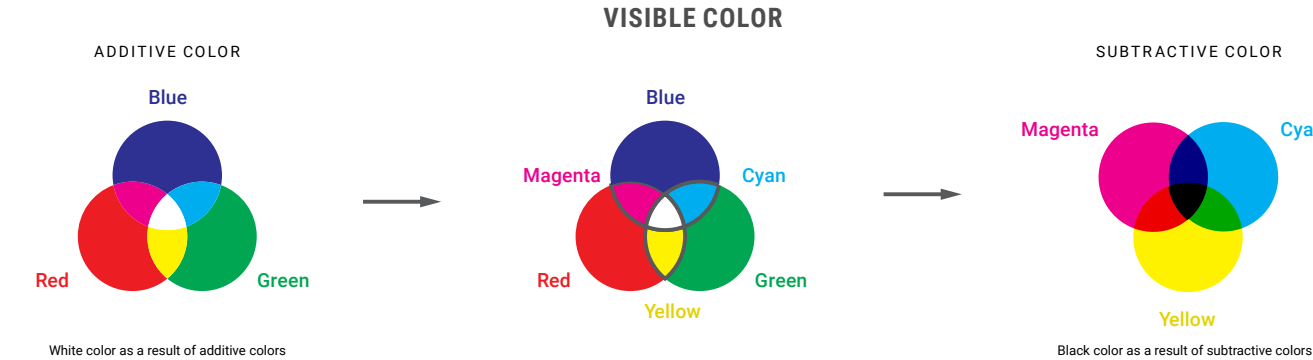
A connection between color, light and sound... Shaper Sense products embody all three components.

# THE SCIENCE OF SENSES

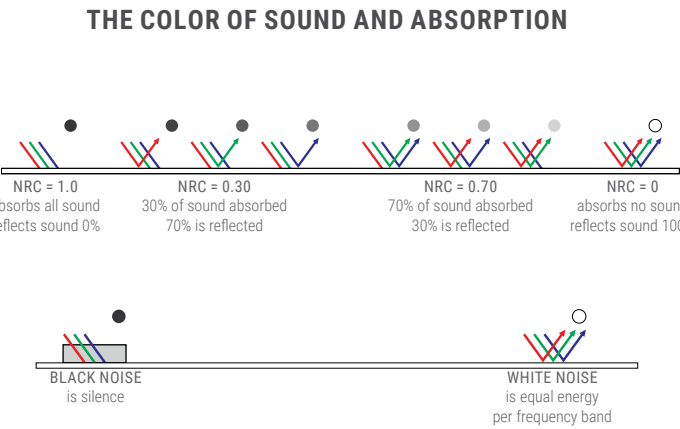
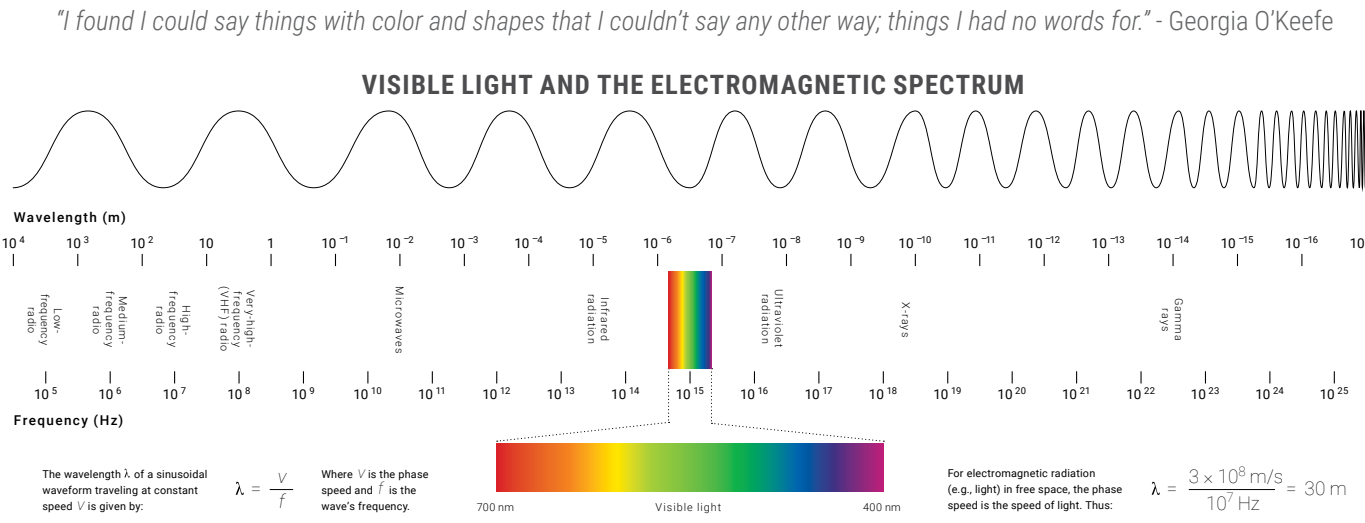
A visual depiction of our sense of vision and hearing are expressed in graphics helping us relate and correlate these senses closer together.



The additive color system is based on three primary colors: red, blue, green, which in the form of light, are mixed in varying proportions to create more colors. All three combined produce white light. Combining two of these primaries in equal proportions produces an additive secondary color: cyan, magenta, or yellow, which, in the form of dyes or pigments, are the standard primary colors in the subtractive color system. Mixing the subtractive primaries yields a range of colors, each one the result of certain wavelengths of light being partially or completely absorbed by the surface. All three mixed together produce black.



Light or visible light is electromagnetic radiation within the portion of the electromagnetic spectrum that can be perceived by the human eye. Visible light is usually defined as having wavelengths in the range of 750-400 nm, or 4 - 7.5 x 10<sup>-7</sup> m, between the infrared and the ultraviolet. Light Reflectance Values (LRV) are how much light a color on a surface reflects or absorbs light. 0% reflectance means no visible light is reflected. 100% reflectance means all of the light is reflected.

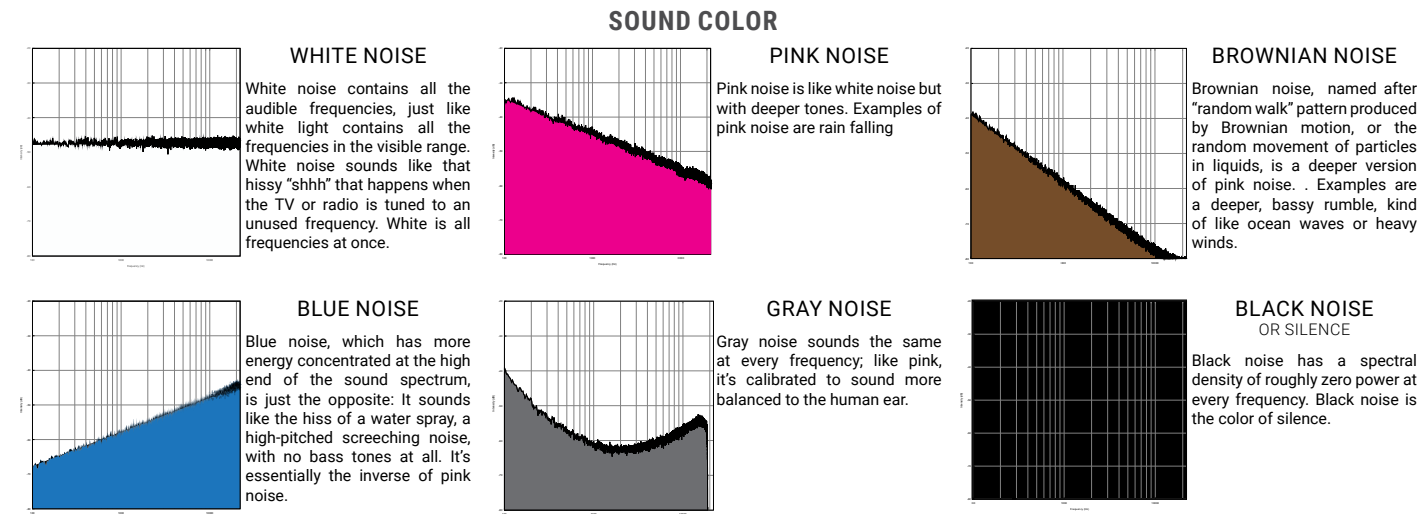


Sound is the term to describe what is heard when sound waves pass through a medium to the ear. All sounds are made by vibrations of molecules through which the sound travels.

Noise is defined as a sound that is loud or unpleasant or causes a disturbance.

In terms of light and sound (noise) pink noise can be compared to warm color temperatures in the reds/oranges that are more calming in nature, and blue noise can be compared to cool color temperatures in the way it is perceived and not meant to be as comfortable as pink noise/ warm color.

NRC or Noise Reduction Coefficient is a scalar representation of the amount of sound energy absorbed upon striking a particular surface.







Trio  
SQRE  
OPC732  
BL548  
BEB274



Duo  
BL269  
BEB548



Duo  
BL686  
BEB100



Duo  
BL274  
BEB175



Duo  
BL100  
BEB242





**Trio**  
**P90L**  
**OPC100**  
**BL100**  
**BEB100**



**Duo**  
**BL686**  
**BEB170**



**Index Dimensional**  
**WHITEGRAY**  
**BEB170**



**Ribsy**  
**RIB175**  
**BEB175**





Index Dimensional  
YELLOWGRAY  
BEB170



Trio  
SQRE  
OPC732  
BL548  
BEB274



Trio  
AR1  
OPC170  
BL274  
BEB377



Index Dimensional  
WHITEGRAY  
BEB170



7  
Ribsy  
RIB170  
BEB170





**Duo**  
**BL100**  
**BEB242**



**Duo**  
**BL269**  
**BEB548**



**Index Dimensional**  
**WHITEGRAY**  
**BEB170**



**Index Dimensional**  
**GRAY170**  
**BEB170**



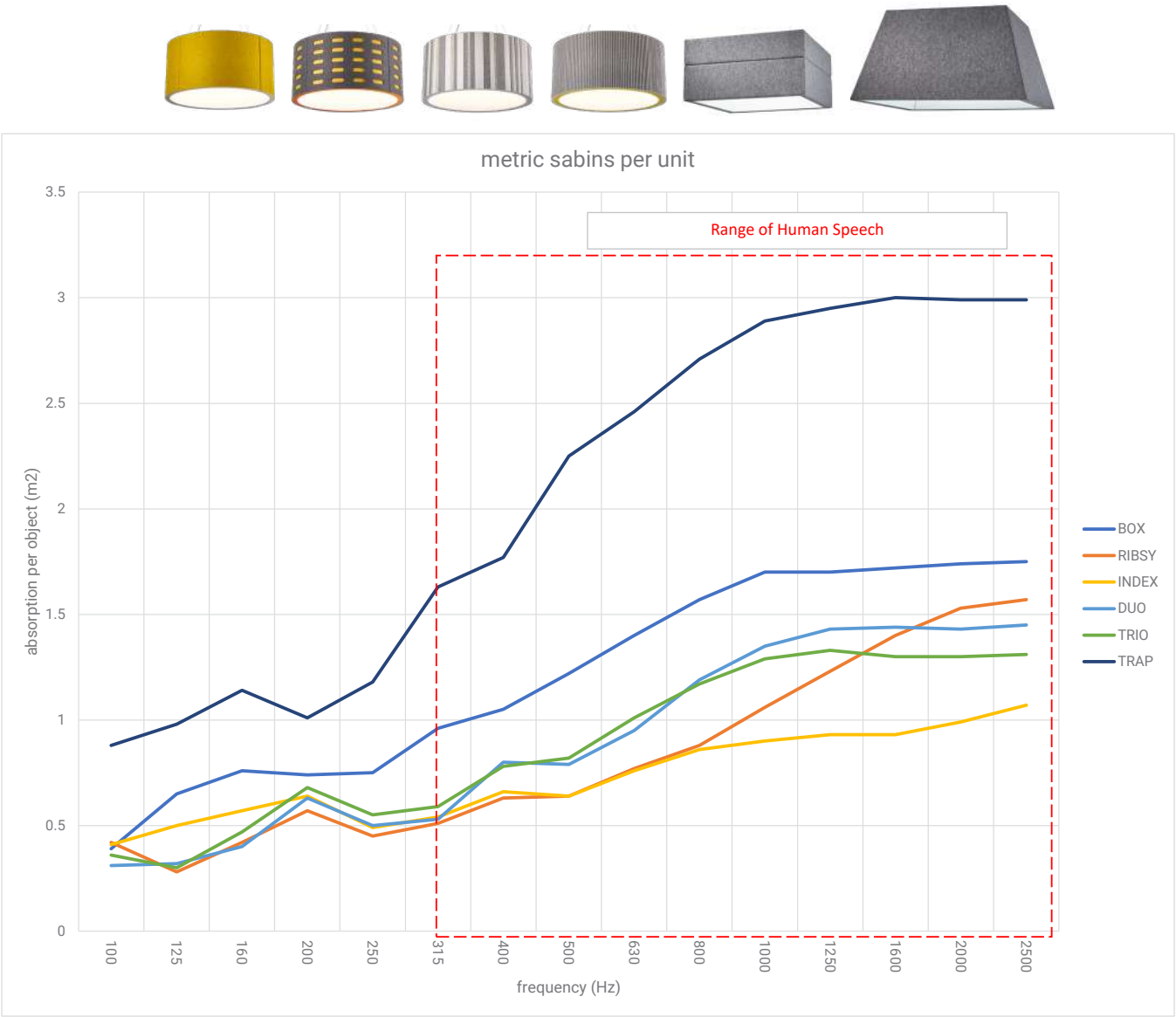
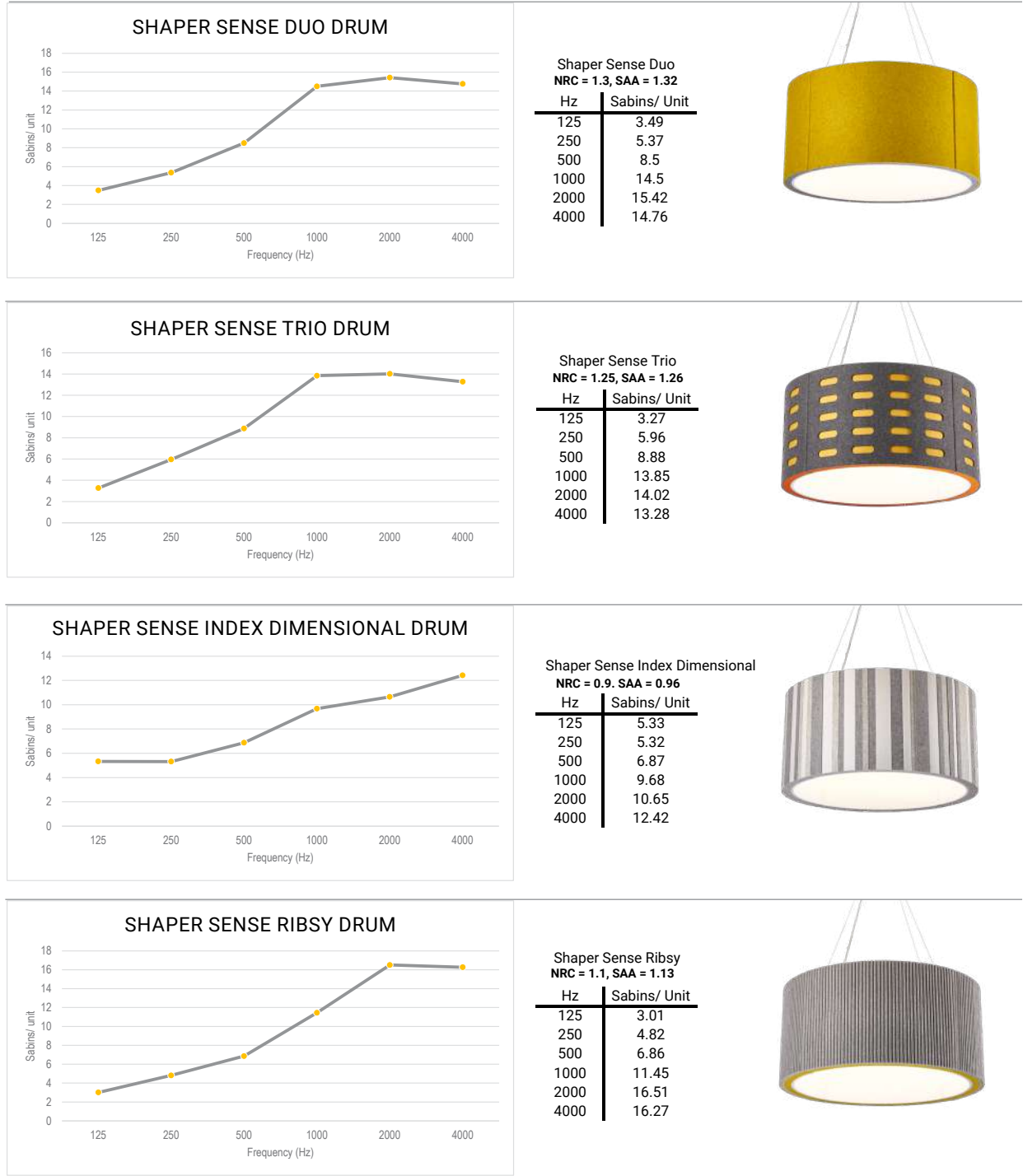
# THE SOUNDS OF ROUNDS

As with all of Cooper Lighting’s acoustic lighting products, the Shaper Sense Drum series underwent thorough testing at industry leading NVLAP accredited labs to meet ASTM 423C-17 standards. The results, reverberation is significantly reduced just by the addition of these industry-leading sound absorbing luminaires in the space.

# WE ARE FAMILY...

## SHAPER SENSE ACOUSTIC FAMILY

The Shaper Sense family of acoustic products help absorb sound in the most critical frequency ranges of human speech.



## SHAPE MATTERS:

As a comparison, where sound absorption is needed, the shape of the fixture directly impacts the effectiveness. ALL of the Shaper Sense acoustic products are well above industry standards, just some shapes affect the space differently. The Drum fixtures provide both effective reverberation decrease as well as sound absorption and blocking.



# SOUND FORMS AND DIRECTION

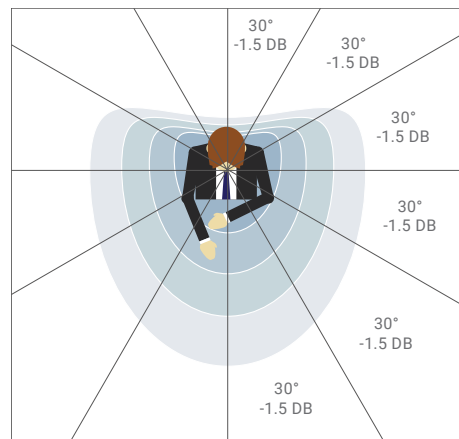
The shape of sound can help us learn how to best orient people in work environment settings to help lower unwanted noise levels at work stations.

## THE SHAPE OF SOUND

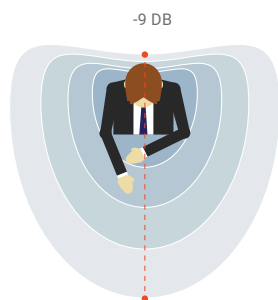
This image shows how sounds function around a person, which is more intense directly in front of them and then tapers off dramatically behind them.



From nadar, for every 30°, 1.5 dB decreases. Therefore, there is approximately 9 dB less sound due to the direction.

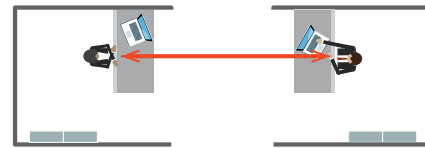


Sound intensity, measured in decibels, can decrease approximately 9 dB just from the direction the sounds travel.

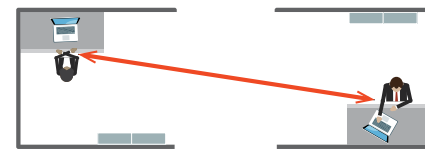


## LAY IT ALL OUT...

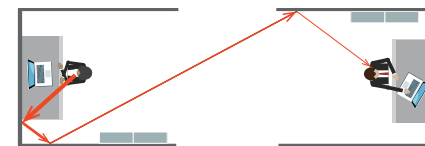
The following layouts can help improve how the direction of sound can be used to lower noise and even reverberation, as well as lowering air travel particles. These layouts can help the noise issues existing in commercial office settings.



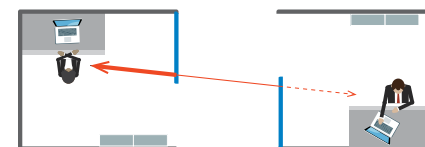
Direct sound is the most disruptive soundscape. This is where two people are face to face and the sound travels directly between them.



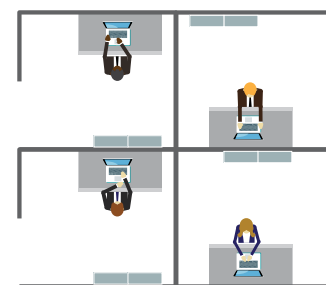
Simply turning the direction of the desks 90°, sound intensity can drop by 10%.



By turning the direction of the desks 180°, sound intensity can drop 75%.



When screens or other sound absorbing materials are placed between two people, sound transmission is decreased even further.

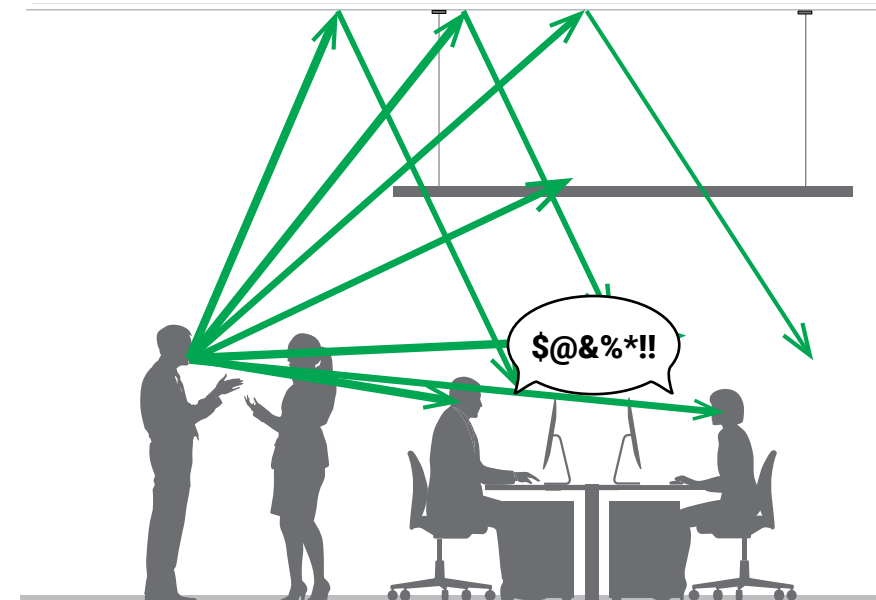


## SOUND HEALTH

In current conditions, commercial furniture manufacturers are recommending these types of layouts to help with reducing air transmission between people speaking. By introducing some type of screen, or element, like sound absorbing light fixtures, there is a slowing of sound travel, which relates to spoken air travel particles that are also reduced.

# THE ABC'S OF ACOUSTICS

Absorption. Blocking. Cover. Shaper Sense Drum fixtures focus on the absorption and blocking noise.



Sure is noisy without materials to absorb and block sounds.

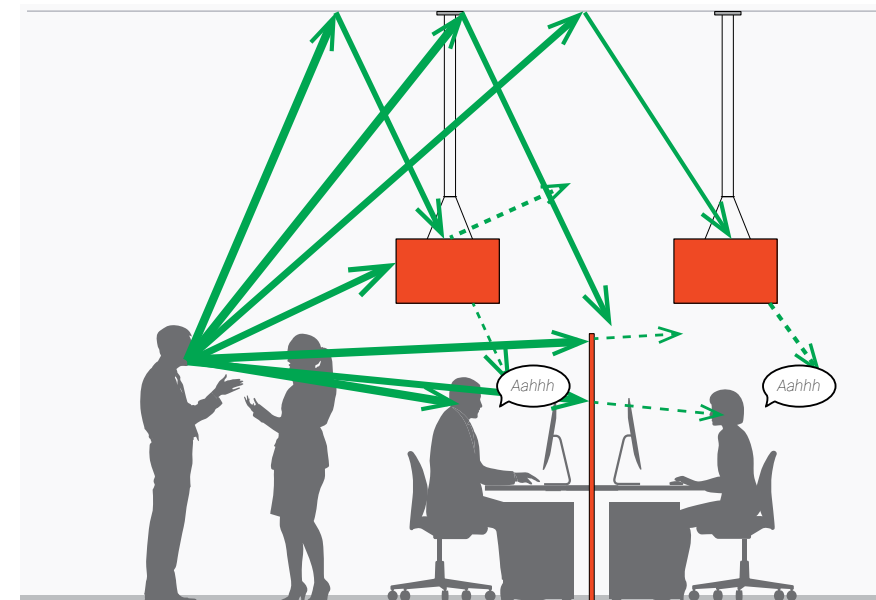
"Life is a train of moods like a string of beads and as we pass through them, they prove to be many-colored lenses which paint the world their own hue, and each show only what lies in its focus."  
- Ralph Waldo Emerson



Using sound absorption lighting fixtures in conjunction with sounds absorbing screens can significantly reduce reverberation.

These products together not only absorb sound, but help in blocking sounds waves from coming into play in the first place.

The extensively large number of color combinations available from Shaper Sense and FilzFelt, allows the materials to match and/or be complimentary to the space.



A multi-layered approach is the best way to tackle unwanted noise and reverberation. Adding a 6 ft. divider and matching Shaper Sense Drum products, is one approach.





- Healthcare
- Lobby

#### Shaper Sense Duo Drum

The Shaper Sense Duo Drum's utilization of color to coordinate with the surroundings is spot on, even in tougher commercial settings. The FilzFelt materials is both proven and tested to withstand durable cleaning treatments. The felt can be stream cleaned to 200°F/ 93.3°C and the acoustic substrate is cleanable with bleach and disinfectants. In addition, the pendants ties nicely with FilzFelt acoustic wall panels in the same color, bringing harmony into the space.





When a pop of color is desired, the Shaper Sense Duo Drum delivers. With the barrel of the fixture having 96 felt color options available, as well as the border edge band, the fixtures can make the space and tie in other elements that define the setting.

- Hospitality
  - Retail
- Shaper Sense Duo Drum**







AUGMENTED REALITY APP - Light ARchitect™

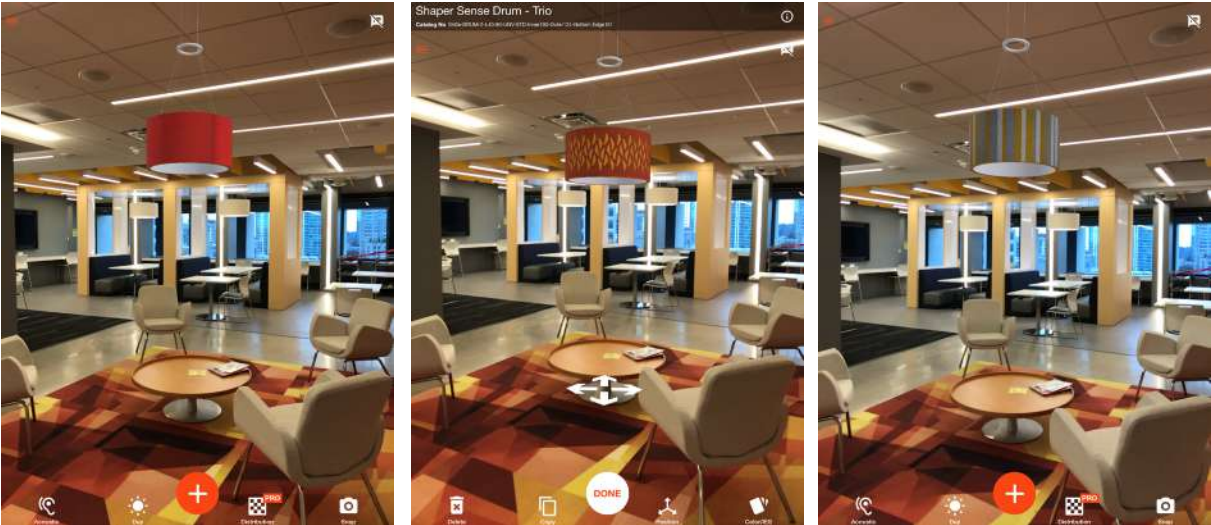
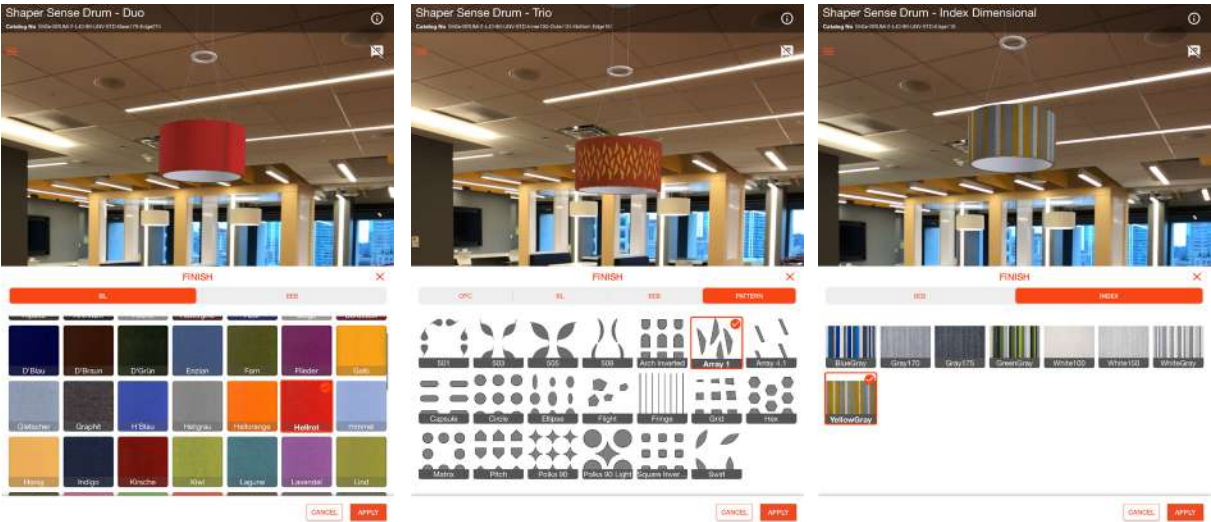
Visualize Shaper Sense Acoustic Products in the Light ARchitect™ augmented reality app, by instantly showing these fixtures in your space! This app allows you to place Shaper Sense Drum fixtures anywhere and everywhere, all at the tip of your fingers. But best of all, you can quickly select combinations of over 17 million options for Shaper Sense Drum products, as well as all other acoustic lighting and decorative products for your space.



Light ARchitect™

App features and benefits include:

- Configure your selection by choosing finishes, lumen outputs, mounting height, color temperature and more! Virtually turn lights on to get the full effect.
- Take screenshots to share and email to clients or colleagues.
- Get illuminance values, use the acoustic calculator, try the GUV estimator (for applicable products) and more!



THE REAL DEAL?

Light ARchitect™ benefits clients by helping them immediately see their vision and taking the guesswork out of lighting design. The app is so state of the art, that all one simply needs to do is place their fixtures and decide.

This is the definition of where technology meets design

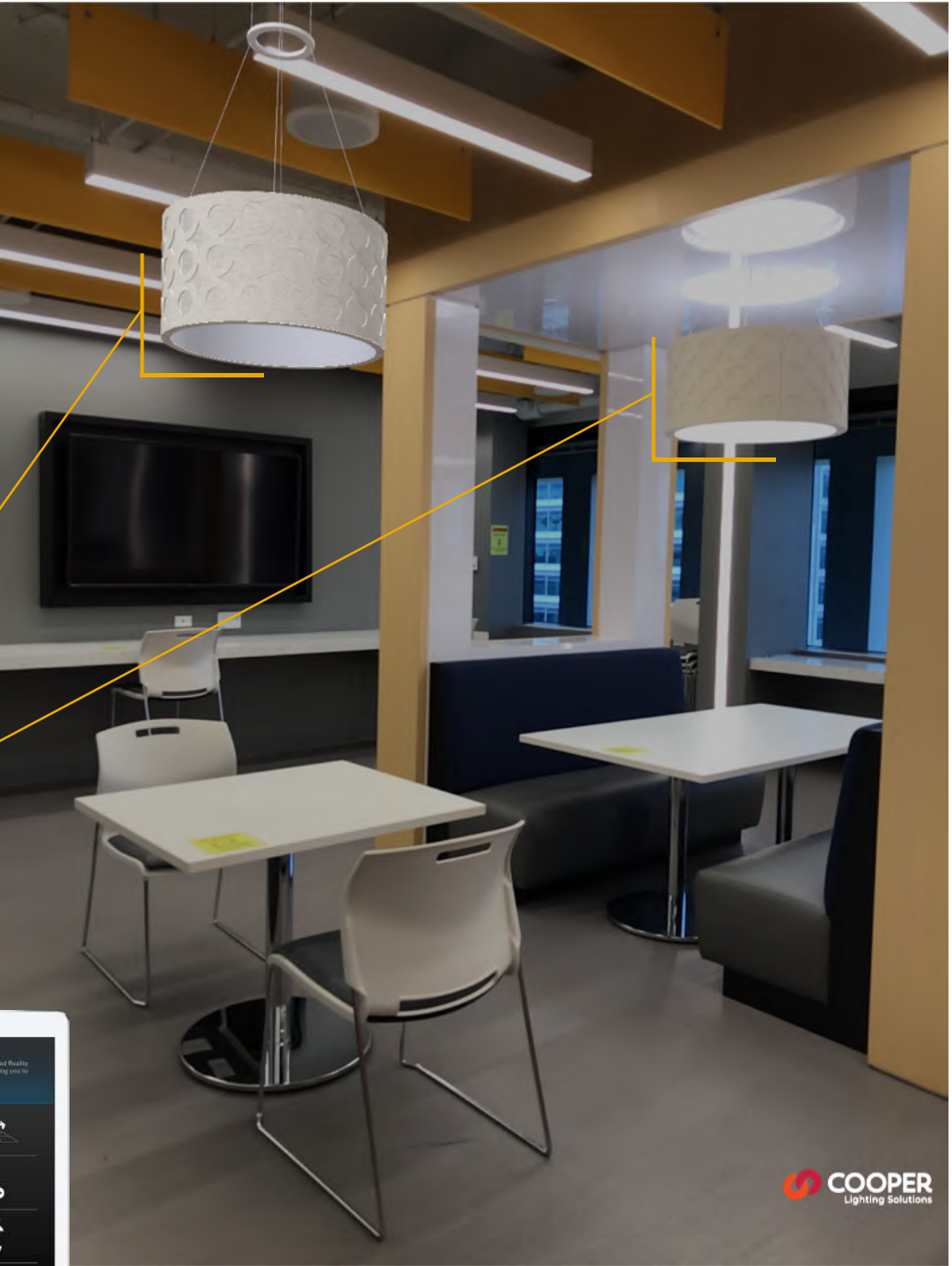
Cooper Lighting Solutions Midtown office  
Atlanta, GA

*"The LightARchitect™ app is a useful tool in many ways but being able to visualize the fixtures within the room was the most impactful feature I used. It allowed me to gain approval from the project stakeholders and finalize the details quickly."*

Kevin Miller, PEM  
Sweetbriar College, VA

AUGMENTED REALITY  
- Using the  
Light ARchitect™ app

REALITY  
- Actual  
installed product







- Hospitality
- Dining

#### Shaper Sense Index Dimensional Drum

Even in settings with tables farther apart, the Shaper Sense Index Dimensional Drum blocks and adsorbs sound, helping to lower reverberation in dining spaces – all while becoming a part of the architecture.



## Lighting Product Lines

Ametrix  
AtLite  
Corelite  
Ephesus  
Fail-Safe  
Halo  
Halo Commercial  
Halo Outdoor  
Invue  
io  
Iris  
Lumark  
Lumière  
McGraw-Edison  
Metalux  
MWS  
Neo-Ray  
Portfolio  
RSA  
Shaper  
Streetworks  
Sure-Lites

## Controls Product Lines

Fifth Light Technology  
Greengate  
iLight (International Only)  
iLumin  
Zero 88

## Connected Lighting Systems

Distributed Low-Voltage Power  
Halo Home  
iLumin Plus  
LumaWatt Pro  
WaveLinx  
Trellix



### Cooper Lighting Solutions

1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
[www.cooperlighting.com](http://www.cooperlighting.com)

Canada Sales  
5925 McLaughlin Road  
Mississauga, Ontario L5R 1B8  
P: 905-501-3000  
F: 905-501-3172

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Shaper Sense is dedicated to MNK

ref: AtlasLED, Color Design  
Workbook, Color Index

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