



COOLEDGE™
Acoustic Luminaires



Front Cover:
66 Hudson Blvd. - New York, NY
Architect: M Moser
Lighting Design: IMEG

Apparatus Studio Showroom
New York, NY

LIGHT AS A BUILDING MATERIAL

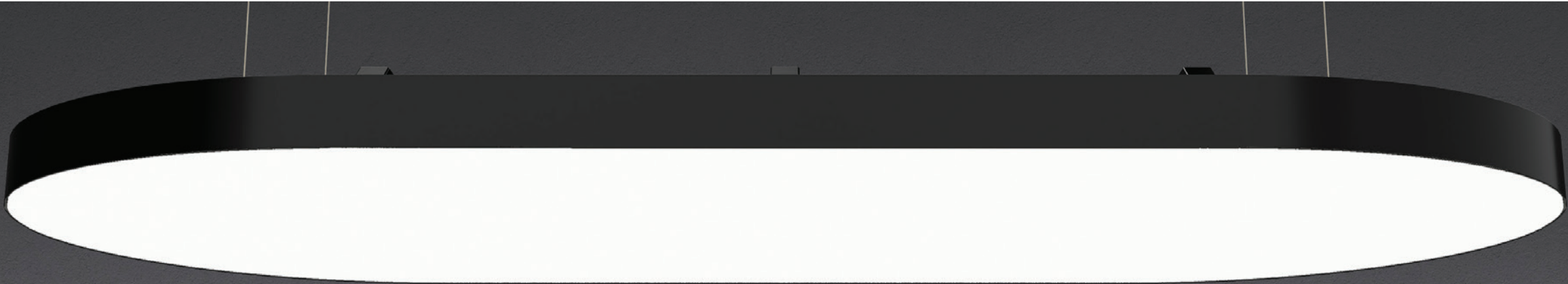
Cooledge gives lighting a new role in the built environment: integral to design, unbound by fixtures and central to occupant wellness. The company transforms ceilings into light-emitting canvases that scale with ease and generate immersive, uniformly distributed illumination more closely resembling natural than artificial light. This is made possible by the industry's widest range of lighting systems, large-scale luminaires and specialty solutions designed to put light where it best serves people and how they feel, work, shop and interact in a space.

Cooledge products combine superior light quality with a range of next-generation technologies including sound absorption, color control and architectural aesthetics to accommodate virtually any ceiling application or budget. Cooledge luminous ceilings and surfaces have transformed thousands of environments worldwide, including the offices, venues and retail properties of esteemed global brands.



THE COOLEDGE ADVANTAGE

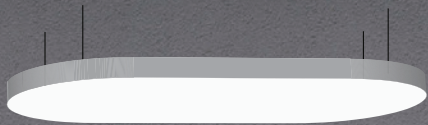
REVOLUTIONARY...INNOVATIVE...GROUNDBREAKING...



ACOUSTIC LIGHTING

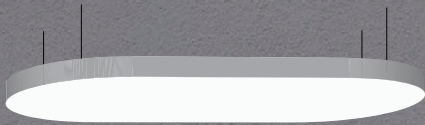
A revolutionary advancement in lighting AND acoustic design, Cooledge luminous ceiling products not only provide illumination that brings the feeling of the outdoors to open plan spaces but also make a meaningful contribution to lowering noise levels and increasing comfort.

Unlike any other lighting products available today, their exceptional sound absorbing properties and most importantly superior size, also deliver an inherent advantage over traditional lighting approaches for reducing noise in open designs where sound pollution is a significant source of dissatisfaction for occupants and users.



FLEXIBLE DESIGN

Cooledge Acoustic Luminaires are available in standard sizes (FABRILum) for rectangles, circles, and bullnose shapes with a full range of CCTs, mounting options and even the ability to provide the look of perforated metal without the weight or cost OR Bespoke options with non-standard sizes, mounting options, and lighting effects including W+RGB; or take advantage of Cooledge’s lighting knowledge and acoustic capability to create something completely unique.



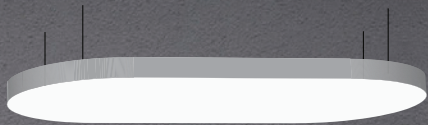
OR



ILLUMINATION FOR WELLNESS

An increased awareness of the relationship between health and our environment has resulted in new and higher standards for building design that consider all aspects of the user experience.

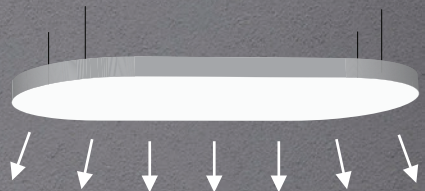
Lighting is one of the most important components of designing for wellness. Cooledge Luminous Ceilings and Acoustic Architectural Luminaires offer significant advantages compared to traditional approaches by delivering immersive illumination that scores points in virtually all of the applicable design categories used in the new standards that define what is required of lighting to meet the needs of people.



IMMERSIVE ILLUMINATION

Immersive illumination is a subjective feeling of being surrounded by light in a way that feels comfortable and natural, like being outside.

Immersive illumination is surprising! It delivers high levels of illumination but “feels like less” because we are used to experiencing localized higher levels of illumination created by traditional points and lines of light as inherently bright and in many cases somewhat uncomfortable.



Acoustic Lighting

NO COMPROMISES

Unlike others, we didn’t just fake it by wrapping existing lighting products in acoustic felt or bolting a standard light fixture to a passive panel and call it acoustic lighting: we built an acoustic luminaire that doesn’t compromise on lighting performance or design AND performs on a par with the best acoustic solutions for reducing noise pollution in open spaces.

NO COMPROMISES

- You don’t have to accept anything less than the perfect solution for solving noise pollution and still delivering the best illumination possible
- You don’t have to choose between great lighting and peaceful quiet
- You don’t have to settle for traditional points and lines luminaires masquerading as acoustic solutions
- You don’t need the clutter of fuzzy boxes and panels in your ceiling



COMPROMISES



NO COMPROMISES

NOISE REDUCTION

Acoustic engineers use a metric called a “sabin” to quantify sound absorption. More sabins means more sound absorption... equals less noise.

SIZE MATTERS

Sound absorption (sabins) is dependent on two equally important characteristics:

$$Sabins = Absorption\ Properties \times Size$$

Small luminaires with high sound absorption ratings (often presented as “NRC”) won’t contribute to significant noise reduction (sabins) without the addition of a large number of passive acoustic baffles or panels.

PASSIVE ACOUSTICS DON’T EMIT LIGHT

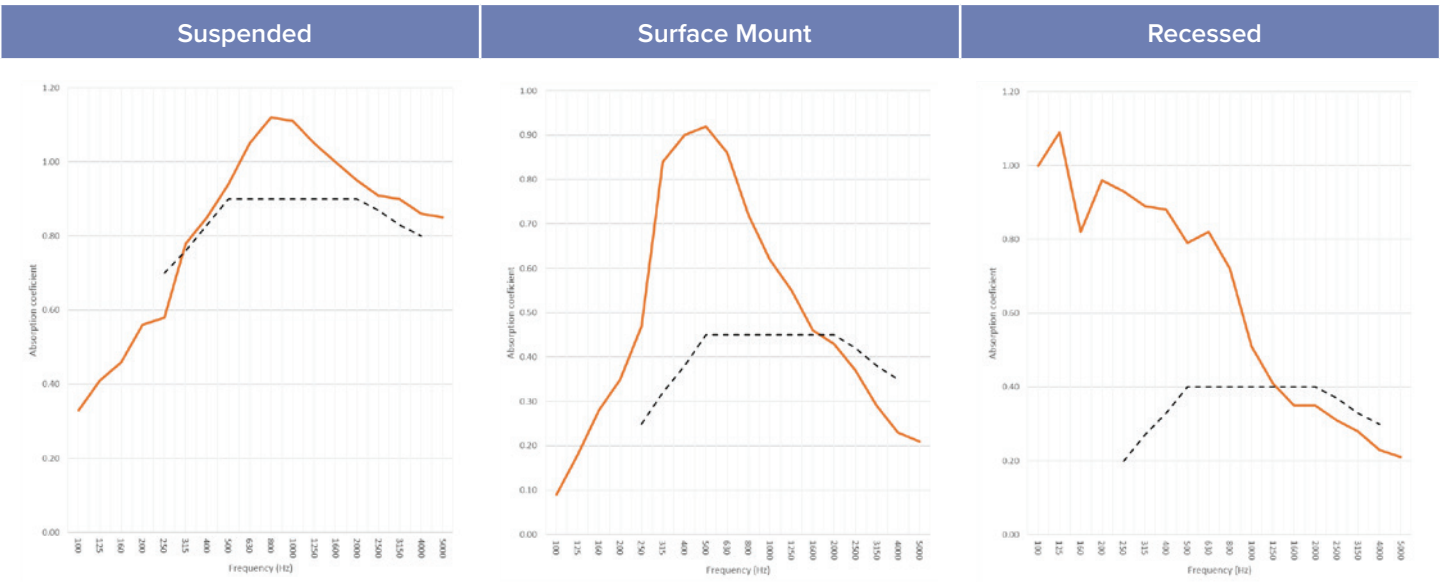
So why would you use them when there is a better alternative?

Cooledge Acoustic Luminaires don’t simply add acoustic elements: they solve the problem of noise pollution in open ceilings without compromising lighting or aesthetics.

ACOUSTIC PERFORMANCE

Mounting Type	Noise Reduction Coefficient	Sound Absorption Average	Weighted Sound Absorption Coefficient (ISO EN11654)
	NRC	SAA	αw
Suspended	0.90	0.91	0.90
Surface Mount	0.60	0.62	0.45 (M)
Recessed (Grid)*	0.65	0.66	0.40 (LM)

*Typical recessed luminaire: NRC = 0



Independent 3rd party tests have confirmed the exceptional acoustic performance of Cooledge Acoustic Luminaires. *Contact Cooledge for details.*

FABRILum

BEYOND LIGHTING

At Cooledge, we’re not satisfied simply selling products that provide best-in-class illumination. FABRILum goes beyond lighting to deliver so much more: unparalleled acoustic performance plus new architectural forms.



Standard sizes and options offer the ability to deliver the immersive illumination of a luminous ceiling in a format that is familiar, easy to specify, and easy on our budget.

STANDARD SIZES & MOUNTING OPTIONS

Nominal Size	Suspended	Surface Mount	Recessed	Grid (T-Bar)
RS (4' x 4' / 1200mm x 1200mm)	✓	✓	✓	✓
RM (4' x 6' / 1200mm x 1800mm)	✓	✓	✓	✓
RL (4' x 8' / 1200mm x 2400mm)	✓	✓		
RXL (6' x 6' / 1800mm x 1800mm)	✓	✓		
RXXL (6' x 8' / 1800mm x 2400mm)	✓	✓		
CS (4' / 1200mm diameter)	✓	✓		
BNM (4' x 8'/1200mm x 2400mm)	✓	✓		
BNL (4' x 10'/1200mm x 3000mm)	✓	✓		



Confidential Client - Brooklyn, NY
Architect: IA Interior Architects
Lighting Design: Lam Partners

Immersive Illumination	Acoustic Performance	Low Glare & Flicker Free	Feeling of Outdoors	Effective Illumination
Delivers a surprising amount of light without visual discomfort	Large surface area combined with noise absorbing materials means “True Acoustic Performance”	Diffuse illumination with minimal glare and no flicker to provide light suited for human wellness	Large scale canopies of light enhance well-being by recreating the feeling of natural light – especially in spaces without access to daylight	Superior light quality that delivers surprising levels of illumination but “feels like less”

IMMERSIVE ILLUMINATION

Full canopies of light that bring the expansive feeling of natural light to open plan spaces and provide high levels of illumination without the visual discomfort and glare of traditional lighting.

- Large Surface Area
- Surprising Levels of Illumination
- Exceptional Color Rendering
- Low Glare
- Flicker Free
- Deep Dimming
- Uniform Light Output
- Consistent Color Uniformity
- Tunable White

Light Output Designed for General Illumination:

- High Flux (HF)
- Standard Flux (SF)

Standard Color Temperature Options:

- 3 Static CCTs
- Tunable White

EXCEPTIONAL
COLOR
RENDERING

CCT	CRI	R9
3000K	94	67
3500K	94	67
4000K	94	70
Tunable White (50/50)	96	84



BESPOKE LUMINAIRES

THE PERFECT ANSWER

For those unique situations where you absolutely need luminaires of a specific size or with a modification that doesn’t appear on the datasheet, Cooledge will work with you to ensure we meet your specific requirements. Our Bespoke Luminaires combine the flexibility of design inherent in our Luminous Ceiling products with the smaller scale and factory production processes of our standard FABRILum luminaires to deliver an out-of-the-box solution that is exactly what you want.

A Variety of Color Temperature Options:

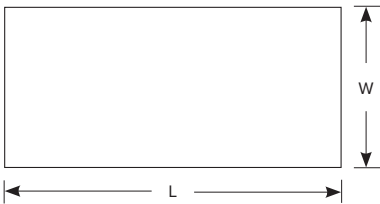
- 6 Static CCTs
- 3 Tunable White Options
- W+RGB

More Light Output & Diffuser Options:

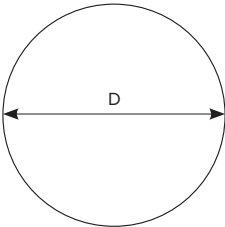
- 4 Flux Options + Custom
- Custom Graphic Images
- 3 Diffuser Options

DIMENSIONS (NOTE: CONTACT COOLEEDGE FOR OTHER SHAPES)

Dimension	Maximum	Minimum
Length (L)	118” (3000mm)	11.8” (300mm)
Width (W)	78.5” (1995mm)	6” (150mm)



Dimension	Maximum	Minimum
Diameter (D)	78.5” (1995mm)	30” (760mm)



Cooledge Bespoke Luminaires enable the immersive illumination properties of our standard luminous ceiling products but with dimensions tailored to your exact requirements. Features include exceptional acoustic performance, removable fabric, a range of light output options, sizes, and shapes, as well as the possibility of changing the finish color or adding your own graphic images.

	FABRILum	Bespoke Luminaires	
Shapes/Sizes	<ul style="list-style-type: none">• Rectangles (5): RS, RM, RL, RXL, RXXL• Circles (1): CS• Bullnose (2): BNM, BNL	<ul style="list-style-type: none">• Rectangles: Min = 12” x 12” (300mm x 300mm); Max = 118” x 78.5” (3000mm x 1995mm)• Circles: Min = 30”” (760mm) dia; Max = 78.5” (1995mm)• Other Shapes: Size to be determined by shape	
Height	Profile = 3.9” (100mm); Overall (includes top mounting rails) = 5.2” (133mm)	Profile = 5.3” (135mm); Overall = 5.3” (135mm)	
Mounting Options	<ul style="list-style-type: none">• Recessed (T-bar Grid) – Lay-in• Surface Mount• Suspended (Aircraft Cable or Threaded Rod)	<ul style="list-style-type: none">• Recessed – Lay-in, Torsion Spring• Surface Mount• Suspended (Aircraft Cable, Threaded Rod, Other)	
Luminous Flux Options	<ul style="list-style-type: none">• Standard (SF)• High (HF)	<ul style="list-style-type: none">• Low (LF)• Medium Flux (MF)• High (HF)	<ul style="list-style-type: none">• Extra High (XHF)• Other
Light Color Options	Single CCT <ul style="list-style-type: none">• 3000K• 3500K• 4000K Tunable White <ul style="list-style-type: none">• 2700K-5700K	Single CCT <ul style="list-style-type: none">• 2200K• 2700K• 3000K• 3500K• 4000K• 5700K	Tunable White <ul style="list-style-type: none">• 2700K-5700K• 2200K-3500K• Dim-to-Warm 3500K-2200K W+RGB <ul style="list-style-type: none">• 3500K + RGB
Diffuser Options	Standard <ul style="list-style-type: none">• Smooth White Fabric	Standard <ul style="list-style-type: none">• Smooth White Fabric Designer Series <ul style="list-style-type: none">• Textured Fabric• Waffle Contour Fabric	
Graphics Options	<ul style="list-style-type: none">• Standard Faux Perforated Metal Patterns• Standard Graphic Images (“Scenes”)• Custom Graphic/Faux Perf. Images (Sold Separately)	<ul style="list-style-type: none">• Standard Faux Perforated Metal Patterns• Custom Faux Perforated Metal Patterns• Custom Graphic Images	
Dimming Protocols	0-10V, DALI, DMX, Casambi (Wireless)		0-10V, DALI, DMX, Casambi (Wireless), Athena (Wireless)
Acoustic Performance	Up to NRC = 0.90; SAA = 0.91 for Suspended		Up to NRC = 0.75; SAA = 0.76 for Suspended

OUR COMMITMENT TO SUSTAINABILITY

AN ESTABLISHED LEADER

Over the past several years, Cooledge has established itself as a leader in sustainability and corporate social responsibility (CSR), consistently ranking near the top our industry as assessed by an independent 3rd party monitoring platform: Ecovadis.

Ecovadis has rated more than 150,000 companies in over 185 countries and 250 industries. Based on 21 individual criteria, the rating assesses a company’s performance in four categories: Environment, Labour & Human Rights, Ethics, and Sustainable Procurement.



SOME IMPORTANT MILESTONES

- In 2023, Cooledge achieved operational carbon neutrality – 2 years early – for Scope 1 & 2 GHG emissions.
- In 2025, Cooledge added a fully bio-degradable diffuser option to its luminous ceiling products.

“Sustainability has become a critical element of operating a responsible business and adds tremendous value to our brand equity. It has grown substantially in importance for our customers and has become a key value enhancer to our already substantial competitive advantage.”

- William J. Sims, Cooledge CEO.

OTHER HIGHLIGHTS

- The primary components of the company’s product portfolio are recyclable.
- The company has completed more than 20 Sustainability initiatives with a focus on the Environment category.
- Company management has completed a Climate Fresk – a climate awareness workshop that raises awareness of the complexity of climate change and identifies ways to improve the company’s performance.



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