COOLEDGE™
FABRICated Luminaires
Immersive Illumination Meets Form & Function
FORM

In architecture, “form” refers to the sum of characteristics that include shape, size, scale, color, texture, and position. Form implies an importance beyond mere function.

A REVOLUTIONARY ADVANCEMENT OF ILLUMINATION

POINT  LINE  PLANE  FORM

FABRICated Luminaires are the pinnacle of form in illumination: delivering unique shapes, increased scale, a textile diffusion surface, and a range of color temperatures to create an experience that is more than the sum of its parts.
IMMERSIVE ILLUMINATION

No other design element has more impact on a space than the lighting. From co-working offices and retail applications to public spaces and healthcare facilities, high quality illumination is essential for success.

IMMERSIVE ILLUMINATION ISN’T MEASURED WITH A LIGHT METER... IT’S AN EXPERIENCE

Consistent Color Uniformity
Best in class (typical) 2 SDCM color uniformity

Tunable White
Constant dimming at all CCTs in the tunable range 2700K - 5700K

Flicker Free
Operational frequency of 3950 Hz is deep into the “safe zone” at all levels of light output

Exceptional Color Rendering
CRI >90
R-values comparable to specialty products
Tunable White can be even better

Large Surface Area
Creates a canopy of light that feels like being outdoors

Surprising Levels of Illumination
Distributed lighting provides high levels of illumination without the visual discomfort of traditional lighting

Deep Dimming
Dimming down to 0.05% beats “dim-to-zero” (0.1%) offers from competitors

Low Glare
Exceeds requirements to qualify for LEED point and compliance with WELL v2 standard

Uniform Light Output
Best in class <10% variance edge to edge

IMMERSIVE ILLUMINATION IS HIGH QUALITY LIGHTING

Optical and spectral characteristics of LEDs are altered when the light they emit passes through a diffuser. Cooledge provides LM-79 light quality data for the actual light output from fabric diffuser not just the LEDs, including:

- Color Rendering
- R-Values
- TM-30-15
- Spectral Power Distribution
- Chromaticity
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

<table>
<thead>
<tr>
<th>Linear Pendant</th>
<th>Cooledge FABRICated Luminaires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>8’ (2.4m)</td>
</tr>
<tr>
<td>Absorbing Height/Width</td>
<td>h = 1’ (0.3m)h</td>
</tr>
<tr>
<td>Sound Absorbing Area</td>
<td>8 sqft (0.72m²)</td>
</tr>
<tr>
<td>NRC</td>
<td>1.0</td>
</tr>
<tr>
<td>Sabin</td>
<td>8 (0.7)</td>
</tr>
</tbody>
</table>

Acoustic performance is dependent on two equally important characteristics:

1. Sound absorption characteristics of the luminaire (often defined by the “Noise Reduction Coefficient” or “NRC”)

2. Total area of sound absorbing surfaces Sabin = NRC x Area

Most luminaires have no noise reduction capability, some may have sound absorption characteristics but will likely require additional passive sound reduction materials such as baffles or clouds. Only FABRICated Luminaires have the scale to deliver acoustic performance that eliminates the need for extra fixtures by combining two functions - lighting and noise reduction - into a single solution.
SIMPLE

Revolutionizing the form of lighting does not mean making it complicated.

SIMPLE TO UNDERSTAND
• They’re luminaires...but bigger and better

SIMPLE TO SPECIFY
• Standard sizes
• Standard options
• Standard prices
• Standard lead times

SIMPLE TO ORDER
• Short leadtimes

SIMPLE TO INSTALL
• Ready-out-of-the-box
• No specialty ceiling contractors required
• Industry standard mounting methods that are easily understood by electrical installers

FABRICated Luminaires are designed for simplicity at every stage from design to installation.
RECTANGLES

The traditional shape of the built environment. FABRICated Luminaires are offered in a wide range of sizes and available in every common mounting configuration to ensure compatibility with standard designs.
<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Light Output Options</th>
<th>Correlated Color Temperature (CCT)</th>
<th>Color Rendering</th>
<th>Sound Absorption (NRC Value)</th>
<th>Mounting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x4/1200x1200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Grid, Recessed, Suspended, Surface Mount</td>
</tr>
<tr>
<td>4x6/1200x1800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Grid, Recessed, Suspended, Surface Mount</td>
</tr>
<tr>
<td>4x8/1200x2400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Grid, Recessed, Suspended, Surface Mount</td>
</tr>
<tr>
<td>4x10/1200x3000</td>
<td>Medium Flux (MF), High Flux (HF), Extra High Flux (XHF)</td>
<td>3000K, 3500K, 4000K, Tunable White</td>
<td>&gt;90</td>
<td>Grid, Recessed, Suspended = 0.2</td>
<td>Grid, Recessed, Suspended, Surface Mount</td>
</tr>
<tr>
<td>5x5/1500x1500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Recessed, Suspended, Surface Mount</td>
</tr>
<tr>
<td>6x6/1800x1800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Recessed, Suspended, Surface Mount</td>
</tr>
<tr>
<td>6x8/1800x2400</td>
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<tr>
<td>6x9/1800x2700</td>
<td></td>
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<td></td>
<td>Recessed, Suspended, Surface Mount</td>
</tr>
</tbody>
</table>

Actual Dimensions on data sheets available at cooledgelighting.com

(Nominal 4’x4’/1200x1200mm)  
(Nominal 4’x6’/1200x1800mm)  
(Nominal 4’x8’/1200x2400mm)  
(Nominal 4’x10’/1200x3000mm) 
(Nominal 5’x5’/1500x1500mm)  
(Nominal 6’x6’/1800x1800mm)  
(Nominal 6’x8’/1800x2400mm)  
(Nominal 6’x9’/1800x2700mm)
CIRCLES

Change the visual experience of an entire space simply by using large scale circles instead of traditional lines and rectangles.

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<th>Color Rendering</th>
<th>Sound Absorption (NRC Value)</th>
<th>Mounting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>High Flux (HF)</td>
<td>3000K, 3500K, 4000K, Tunable White</td>
<td>&gt;90</td>
<td>0.75</td>
<td>Suspended</td>
</tr>
<tr>
<td>Medium</td>
<td>Extra High Flux (XHF)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extra Large</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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CURVED CORNERS

Soften the edges by incorporating curved corners on FABRICated Luminaires that fully deliver the immersive experience of illumination.

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<td>0.75</td>
<td>Suspended</td>
</tr>
<tr>
<td>Large</td>
<td>Extra High Flux (XHF)</td>
<td>3500K 4000K Tunable White</td>
<td></td>
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Embrace an entirely new aesthetic. Bullnose forms combine straight sides with full radius curved ends to create a compelling look on a scale not seen before in luminaires.

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LIGHTING FOR PEOPLE

New standards for health and well-being mean that good design is no longer an option... it’s a mandatory requirement.

WHAT DO ALL OF THESE STANDARDS HAVE IN COMMON?

- They are representative of an unstoppable trend in building design
- Designing for human well-being is fundamental to their purpose
- The quality of illumination is a significant contributor to compliance
- All of the above

FABRICATED LUMINAIRES DELIVER...

- Comfortable, glare-free, flicker-free illumination
- Superior acoustic performance
- Compliance with WELL v2 standard
- Lighting for people

WORKPLACE WELLNESS PERKS THAT MATTER TO EMPLOYEES

A survey of 1,600 workers reveals that air and light matter much more than tech-based health tools.

- Air quality: 58%
- Immersive Illumination: 50%
- Water quality: 41%
- Comfortable temperatures: 34%
- Connection to nature: 30%
- Noise Reduction: 30%
- Comfortable acoustics: 30%
- Healthy food options: 26%
- Fitness facilities: 16%
- Tech-based health tools: 13%

Source: Future Workplace

“Bodies of evidence from all parts of the globe prove that well designed workplaces are critical for the health and well-being of society.”

Cushman Wakefield, Well Work Place: Making Spaces Human Again