COOLEDGETM
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.

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.

**A REVOLUTIONARY ADVANCEMENT OF ILLUMINATION**

**POINT** → **LINE** → **PLANE** → **FORM**

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

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

- **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

- **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

- **Deep Dimming**
  - Dimming down to 0.05% beats “dim-to-zero” (0.1%) offered by 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

**IMMERSIVE ILLUMINATION**

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NOISE REDUCTION

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

SIMPLE

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

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

SIZE MATTERS

<table>
<thead>
<tr>
<th>Linear Pendant</th>
<th>Cooledge FABRICated Luminaires</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>8’ (2.4m)</td>
</tr>
<tr>
<td><strong>Absorbing Height/Width</strong></td>
<td>h = 1’ (0.3m) ; w = 6’ (1.8m)</td>
</tr>
<tr>
<td><strong>Sound Absorbing Area</strong></td>
<td>8 sqft (0.72m²)</td>
</tr>
<tr>
<td><strong>NRC</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>Sabin</strong></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.

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

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
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>4'x4'/1200x1200mm</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, Surface Mount</td>
<td></td>
</tr>
<tr>
<td>4'x6'/1200x1800mm</td>
<td></td>
<td></td>
<td></td>
<td>Recessed, Suspended, Surface Mount</td>
<td></td>
</tr>
<tr>
<td>4'x8'/1200x2400mm</td>
<td></td>
<td></td>
<td></td>
<td>Recessed, Suspended, Surface Mount</td>
<td></td>
</tr>
<tr>
<td>5'x5'/1500x1500mm</td>
<td></td>
<td></td>
<td></td>
<td>Grid, Recessed, Surface Mount</td>
<td></td>
</tr>
<tr>
<td>6'x6'/1800x1800mm</td>
<td></td>
<td></td>
<td></td>
<td>Recessed, Suspended, Surface Mount</td>
<td></td>
</tr>
<tr>
<td>6'x8'/1800x2400mm</td>
<td></td>
<td></td>
<td></td>
<td>Surface Mount</td>
<td></td>
</tr>
<tr>
<td>6'x9'/1800x2700mm</td>
<td></td>
<td></td>
<td></td>
<td>Surface Mount</td>
<td></td>
</tr>
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</table>
CIRCLES

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

<table>
<thead>
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<th>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>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>
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<td></td>
<td></td>
</tr>
<tr>
<td>Extra Large</td>
<td></td>
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</table>

CURVED CORNERS

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

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<tr>
<td>Medium</td>
<td>High Flux (HF)</td>
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<td>&gt;90</td>
<td>0.75</td>
<td>Suspended</td>
</tr>
<tr>
<td>Large</td>
<td>Extra High Flux (XHF)</td>
<td></td>
<td></td>
<td></td>
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Actual Dimensions on data sheets available at cooledgelighting.com
**BULLNOSE**

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.

**LIGHTING DESIGNED 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.

**Immersive Illumination**

- Air quality
- Confident light
- Natural light
- Colorful light
- Comfort
- Connection to nature

**Noise Reduction**

- Confident acoustics
- Healthy tool options
- Fitness
- Tech-based tools

Source: Future Workplace

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

Cushman & Wakefield, Well Work Place: Making Spaces Human Again

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**Size** | **Light Output Options** | **Correlated Color Temperature (CCT)** | **Color Rendering** | **Sound Absorption (NRC Value)** | **Mounting Options**
--- | --- | --- | --- | --- | ---
Medium | High Flux (HF) | 3000K | 85 | 0.75 | Suspended
Large | Extra High Flux (EHF) | 3500K, 4000K | 90 | | 

Actual Dimensions on data sheets available at cooledgelighting.com