

COOLEGE™

FABRICated Luminaires

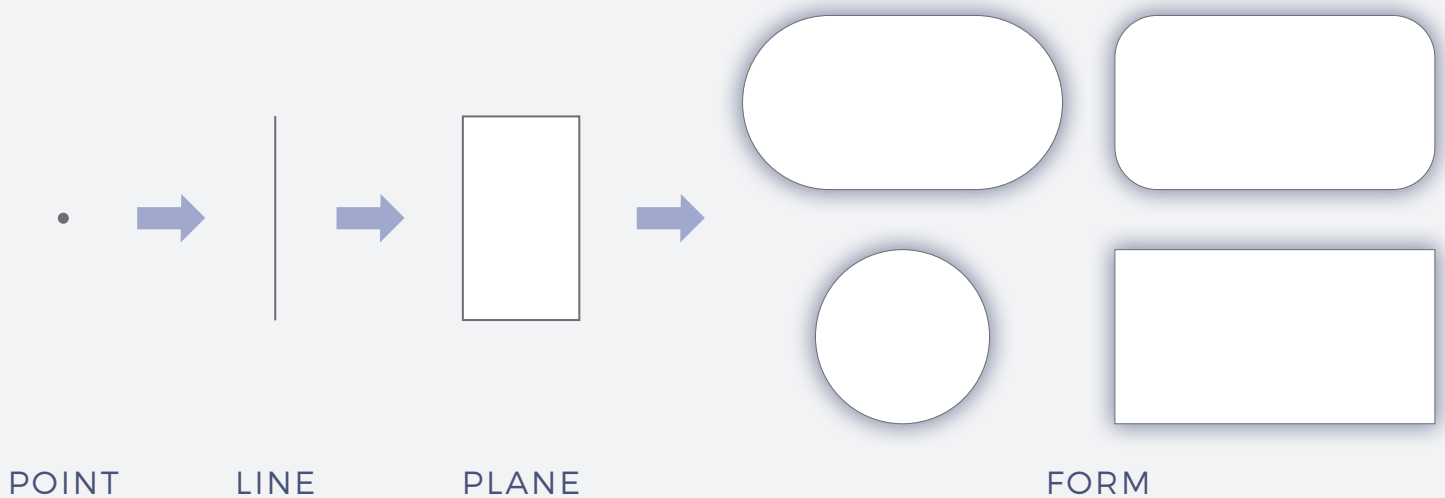
Immersive Illumination Meets Form & Function



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



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

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%) 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

	Linear Pendant	Cooledge FABRICated Luminaires
Length	8' (2.4m)	8' (2.4m)
Absorbing Height/Width	h = 1' (0.3m)w	w = 6' (1.8m)
Sound Absorbing Area	8 sqft (0.72m ²)	48 sqft (4.46m ²)
NRC	1.0	0.75
Sabin	8 (0.7)	36 (3.35)
	Equivalent to 1 Acoustic Ceiling Tile	Equivalent to 4.5 Acoustic Ceiling Tiles

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”)

AND

2. Total area of sound absorbing surfaces Sabins = 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

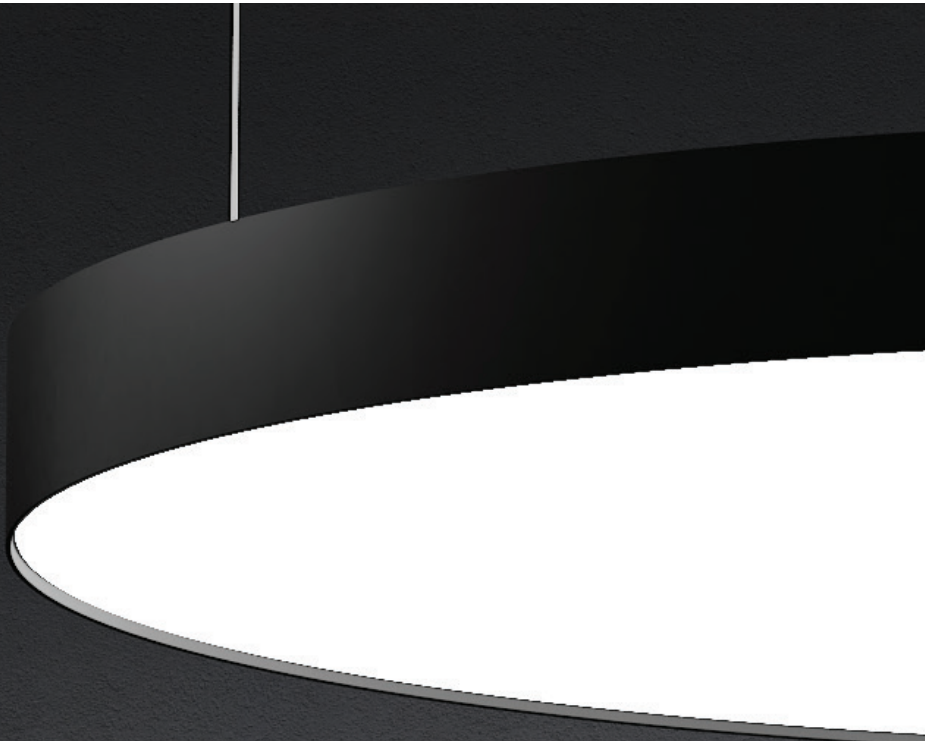
SIMPLE TO ORDER

- 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

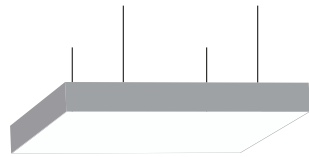
FABRICated Luminaires are designed for simplicity at every stage from design to installation.



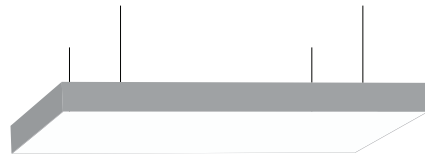
RECTANGLES

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.





(Nominal 4'x4'/1200x1200mm)



(Nominal 4'x6'/1200x1800mm)



(Nominal 4'x8'/1200x2400mm)



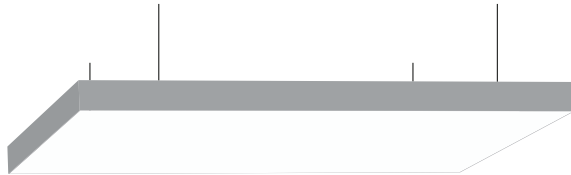
(Nominal 4'x10'/1200x3000mm)



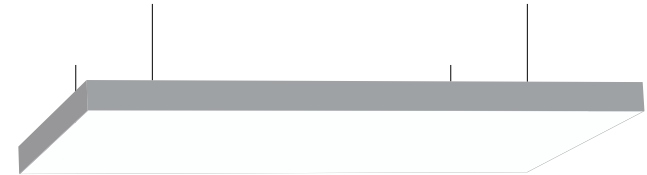
(Nominal 5'x5'/1500x1500mm)



(Nominal 6'x6'/1800x1800mm)



(Nominal 6'x8'/1800x2400mm)



(Nominal 6'x9'/1800x2700mm)



Nominal Size	Light Output Options	Correlated Color Temperature (CCT)	Color Rendering	Sound Absorption (NRC Value)	Mounting Options
4x4/1200x1200	Medium Flux (MF), High Flux (HF), Extra High Flux (XHF)	3000K, 3500K, 4000K, Tunable White	>90	Grid, Recessed, Surface Mount = 0.2 Suspended = 0.75	Grid, Recessed, Suspended, Surface Mount
4x6/1200x1800					Recessed, Suspended, Surface Mount
4x8/1200x2400					
4x10/1200x3000					
5x5/1500x1500					
6x6/1800x1800					
6x8/1800x2400					
6x9/1800x2700					

CIRCLES

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



Small
(Nominal \varnothing 4'/1200mm)



Medium
(Nominal \varnothing 5'/1500mm)



Large
(Nominal \varnothing 6'/1800mm)



Extra Large
(Nominal \varnothing 7'/2100mm)



Size	Light Output Options	Correlated Color Temperature (CCT)	Color Rendering	Sound Absorption (NRC Value)	Mounting Options
Small Medium Large Extra Large	High Flux (HF) Extra High Flux (XHF)	3000K, 3500K, 4000K, Tunable White	>90	0.75	Suspended

CURVED CORNERS

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



Medium
(Nominal 4'x10'/1200x3000mm)



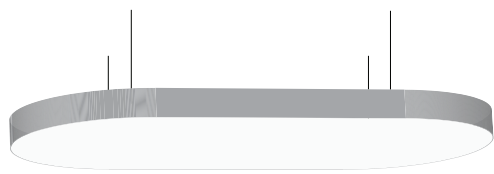
Large
(Nominal 6'x9'/1800x2700mm)



Size	Light Output Options	Correlated Color Temperature (CCT)	Color Rendering	Sound Absorption (NRC Value)	Mounting Options
Medium	High Flux (HF)	3000K	>90	0.75	Suspended
Large	Extra High Flux (XHF)	3500K			
		4000K Tunable White			

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.



Medium
(Nominal 4'x8'/1200x2400mm)



Large
(Nominal 5'x10'/1500x3000mm)



Size	Light Output Options	Correlated Color Temperature (CCT)	Color Rendering	Sound Absorption (NRC Value)	Mounting Options
Medium	High Flux (HF)	3000K	>90	0.75	Suspended
Large	Extra High Flux (XHF)	3500K			
		4000K Tunable White			

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?



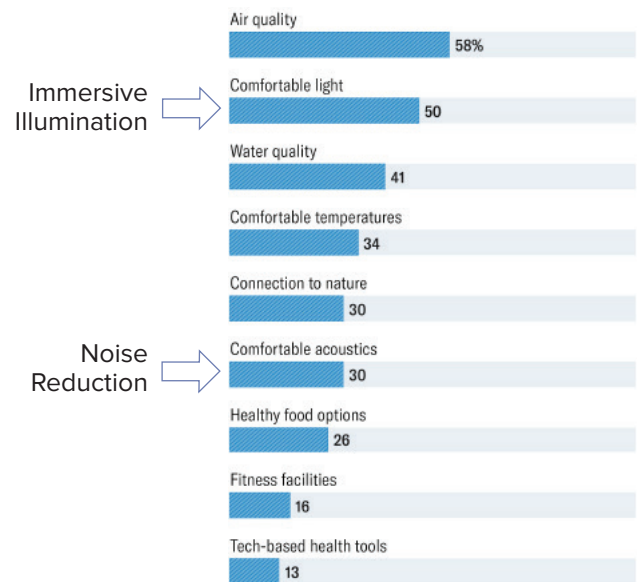
- They are representative of an unstoppable trend in building design
- Designing for human well-being is fundamental to their purpose
- The quality of illumination is a significant contributor to compliance
- ✓ All of the above

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.



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.”

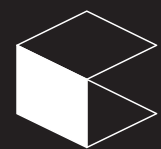
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