

COOLEEDGE LUMINOUS CEILINGS FABRILUM CIRCLE: SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	Luminous Ceilings

DESCRIPTION

FABRILum's exceptional acoustic performance and immersive illumination are now available in a circle (nominal 4'/1.2m) featuring the same higher efficacy, accessible fabric diffuser and incredible value. Perfect base lighting for design themes that incorporate curves and circles to create more interesting spaces great for:

- Lobbies, atriums, indoor plazas
- Retail environments where curves and circles are prominent
- Open plan offices and co-working spaces with a more modern feeling
- Showrooms



SIZE

Nominal Size
CS (4'/1.2m dia)

GENERAL

Mounting Options	Suspended & Surface Mount
Location	Indoor, dry location only
Operating Temperature	0 – 40°C (32 - 104°F)
Storage Temperature	-40 – +85°C (-40 - 185°F)
Relative Humidity	90% max (non-condensing)
Input Voltage	Nom. 100-277 VAC (For recessed applications: 100-240 VAC)
Diffuser Material	Woven Polyester Fabric (coated)
Frame Material	Aluminum
Fire Rating	ASTM E84 Class A/EN:13501-1 Class B
Weight (single luminaire)	14 kg (31 lb)



RoHS

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Cooledge Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

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PHOTOMETRICS

Size	CCT	Flux (lm)	
		High Flux (HF)	Standard Flux (SF)
CS	3000K	6800	3650
	3500K	7100	3650
	4000K	7300	3650
	TNW	6500	3650

CRI (Ra)	>92
Color Uniformity (Typical)	2 SDCM
Lumen Maintenance (L80)	75,000 hr

TM-30-15 DATA

Index	TNW*	3000K	3500K	4000K
Rf	90	90	89	90
Rg	102	98	99	100

*TNW = Tunable White 2700K-5700K (both channels @50%)

For more details about **FABRILum** color rendering properties, please see "Light Quality Metrics" at www.cooledgelighting.com

ACOUSTIC PERFORMANCE

Mounting Type	Noise Reduction Coefficient	Sound Absorption Average	Weighted Sound Absorption Coefficient (ISO EN11654)
	NRC	SAA	α_w
Suspended	0.90	0.91	0.90
Surface Mount	0.60	0.62	0.45 (M)

A full acoustic report is available at <https://www.cooledgelighting.com/acoustic-lighting#testreports>

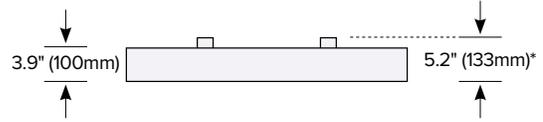
POWER

Size	CCT	Power (W)	
		High Flux (HF)	Standard Flux (SF)
CS	3000K	108	57
	3500K	109	55
	4000K	109	55
	TNW	109	60

DIMENSIONS

Size	External Dimensions mm (in)	Weight kg (lbs)	# Mounting Points
CS	1193 (47.0)	14 (31)	4

- Profile Height = 100mm (3.9")
- Overall Height (including Mounting Rails) = 133mm (5.2")
- Surface Mount will have an opening of 33mm (1.3") between the frame and the ceiling



MOUNTING DETAILS

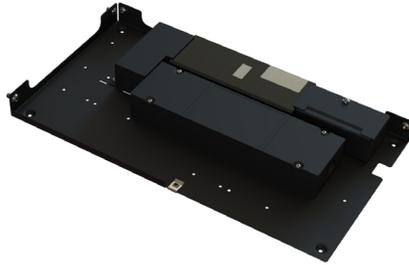
Mounting Type	Mounting Kit Required	Notes
Surface Mount	No mounting kit necessary	Mounts directly to the ceiling material through the mounting rails
Suspended	Mounting Kit included	Hardware for cable attachment to luminaire

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POWER AND CONTROL

Power Supply with CooleEdge Control Module

Actual power & control configuration is determined by the luminaire model.



Power & Control Mounting Plate

FABRILum offers two choices for locating the power and control components:

- **Integrated (Suspended & Recessed):** the mounting plate containing the power supply and control module may be secured to the top of the luminaire. AC electrical connections are made directly to the power supplies at the luminaire
- **Remote Mounted (All):** the mounting plate can be located remotely in a location that may be more suitable for AC electrical connection or for maintenance access (see www.cooledgelighting.com or contact CooleEdge for remote distance wiring requirements)

Mounting Plate Dimensions:

RSB = 480mm x 214mm (18.9" x 8.4")

RS, RM, RL, RXL = 405mm x 215mm (16.0" x 8.5")

Power Supply Performance

Input Voltage	Nom. 120-277VAC
Input Frequency	Nom. 50-60 Hz
Start-up Time	1.25 sec
Max. Inrush Current	60A
Rated Lifetime	200,000 hr

Control Module Performance

Minimum Dim Level	0.1%
Operating Frequency	3000Hz (compliant with IEEE 1789-2015 for flicker free)
Control Protocols	0/1-10V, DMX, Wireless (Casambi), DALI

HOW TO ORDER

FBx - CS - - - - -

1 - 2 - 3 - 4 - 5 - 6 - 7

1 MOUNTING

FBS = Suspended
FBM = Surface Mount

2 NOM. SIZE

CS = Circle Small

3 FLUX

HF = High Flux
SF = Std Flux

4 CCT

30 = 3000K
35 = 3500K
40 = 4000K
TNW = Tunable White

5 FINISH

WH = White
BL = Black

6 DIMMING

010 = 0-10V
DAL = DALI²
DMX = DMX³
CAS = Casambi (Wireless)

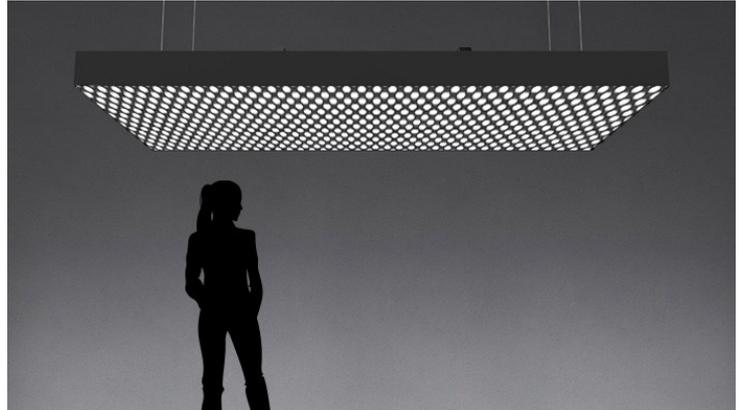
7 CERTIFICATION

CE = CE Compliant
UL = UL Listed

FAUX PERFORATED METAL (PRINTED)

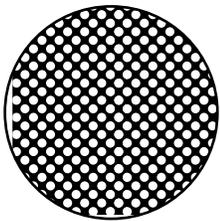
Make your design unique by adding the look of illuminated perforated metal panels to your FABRILum luminaires using images printed right on the diffuser fabric.

Combine exceptional quality illumination, true acoustic performance, and visual interest in one simple luminaire solution.

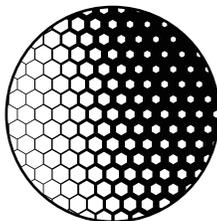


STANDARD PATTERNS

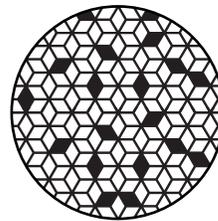
The following are standard patterns available from Coolege. We are also able to work with other images that you have selected.



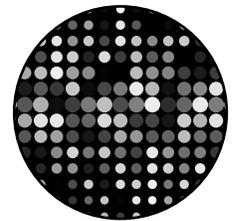
PATTERN A



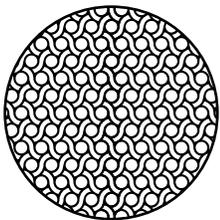
PATTERN B



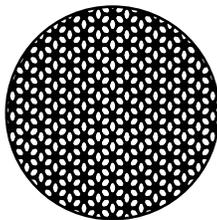
PATTERN C



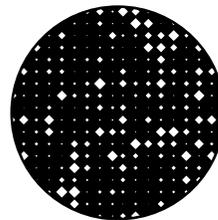
PATTERN D



PATTERN E



PATTERN F



PATTERN G



PATTERN H

HOW TO ORDER

Choose your FABRILum luminaire as shown on the previous page and then select your faux perforated metal pattern as an accessory addition as shown below:

LACC
Lighting Accessory

PRF
Perforated Metal

CS
Size/Type

Pattern Identifier

A, B,
C, D,
E, F,
G, H

WELL STANDARD (V2)

Cooledge FABRILum luminaires enhance the user experience of spaces by delivering immersive illumination that impacts not only the visual, but also the emotional and physiological, response of people. New standards that define requirements for promoting design that enhances well-being are emerging. One of those standards, WELL v2, includes 9 “features” for lighting design that define requirements for the quality and composition.

The following data is provided to assist designers in determining compliance with the WELL v2 standard when incorporating Cooledge FABRILum luminaires in their design.

Feature L03: Circadian Lighting Design

This feature requires a calculation of Equivalent Melanopic Lux (EML):

$EML = \text{Photopic Lux} \times \text{Melanopic Ratio}$

Melanopic Ratio for FABRILum

	TNW*	3000K	3500K	4000K
Melanopic Ratio**	0.704	0.517	0.620	0.779

*Tunable White: 2700K @ 50% + 5700K @ 50%

**Calculated using the IWBI Melanopic Ratio calculator

Feature L04: Glare Control

This feature requires maximum values for different types of glare measurements.

Compliance requirement (d): Luminance < 10,000 cd/m² between 45°-90° from nadir

Maximum Luminance for FABRILum

	High Flux (HF)	Extra High Flux (XHF)
Maximum Luminance* (cd/m ²)	1465	2200

*Maximum occurs at 45°

Feature L07: Electric Light Quality – Part 1 Ensure Color Rendering Quality

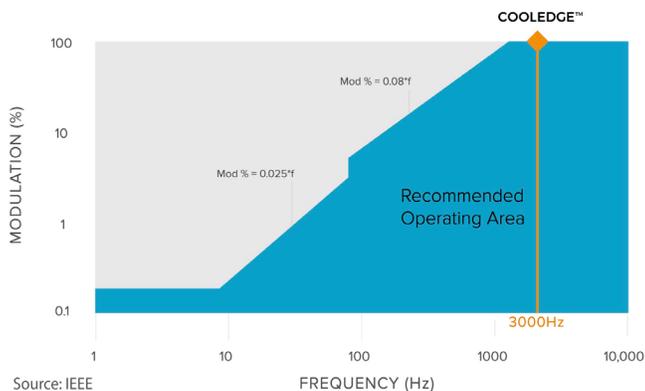
This feature requires minimum values for color rendering.

Compliance requirement (a): CRI > 90

CRI (Ra) for FABRILum

	TNW*	3000K	3500K	4000K
CRI (Ra)	96	94	94	94

Feature L07: Electric Light Quality – Part 2 Manage Flicker



For LED-based luminaires, this feature requires specific values for the combination of frequency and modulation.

Compliance requirement: Meet IEEE 1789-2015 Standard Practice Recommendation

Source: IEEE

FREQUENCY (Hz)