COOLEDGE™

COOLEDGE LUMINOUS CEILINGS
FABRILUM BULLNOSE: SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	Luminous Ceilings

DESCRIPTION

FABRILum Bullnose luminaires are shaped with straight sides and full radius ends to create a unique architectural form combining the exceptional acoustic performance and immersive illumination that deliver the Cooledge Advantage. Incorporate the high efficacy, accessible fabric diffuser and incredible value featured in this distinctive shape to create more interesting spaces for:

- Lobbies, atriums, indoor plazas
- Retail base lighting or illumination for merchandise display islands
- Open plan offices and co-working spaces where acoustics and aesthetics are critical elements of the design

SIZES

Nominal Size
BNM (4’ x 8’/1.2m x 2.4m)
BNL (4’ x 10’/1.2m x 3.0m)

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)
Diffuser Material	Woven Polyester Fabric (coated)
Frame Material	Aluminum
Fire Rating	ASTM E84 Class A/EN:3501-1 Class B
Input Voltage	Nom. 120 – 277 VAC

c UL us LISTED CE RoHS

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PHOTOMETRICS

Size	CCT	Flux (lm)	
		High Flux (HF)	Standard Flux (SF)
BNM	3000K	15,700	8400
	3500K	16,500	8400
	4000K	16,800	8400
	TNW	15,000	8400
BNL	3000K	20,000	10,750
	3500K	21,000	10,750
	4000K	21,500	10,750
	TNW	19,300	10,750

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 (single)	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

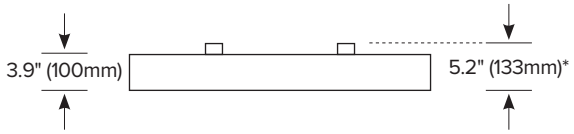
POWER

Size	CCT	Power (W)	
		High Flux (HF)	Standard Flux (SF)
BNM	3000K	244	128
	3500K	244	121
	4000K	244	121
	TNW	244	133
BNL	3000K	311	163
	3500K	311	156
	4000K	311	156
	TNW	311	170

DIMENSIONS

Size	External Dimension mm (in)		Weight	# Mounting Points
	W	L	kg (lbs)	
BNM	1193 (47.0)	2343 (92.2)	32 (70)	4
BNL	1193 (47.0)	2961 (116.6)	38 (85)	4

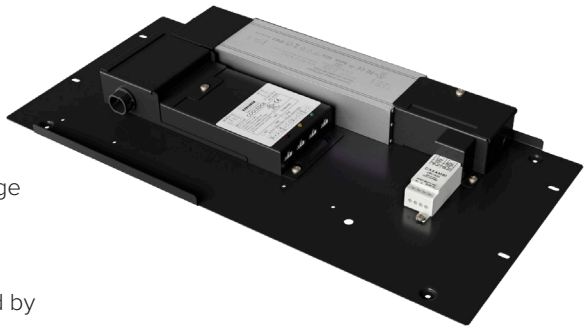
- Profile Height = 100mm (3.9”)
- Overall Height (including Mounting Rails) = 133mm (5.2”)
- Surface Mount will have an opening of 33mm (1.3”) between the frame and the ceiling



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

POWER AND CONTROL MOUNTING



Power Supply with Cooledge Control Module

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

Power & Control Mounting Plate

Mounting Plate Dimensions:
RSB = 480mm x 214mm (18.9" x 8.4")
RS, RM, RL, RXL = 400mm x 190mm (15.75" x 7.5“)

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 Cooledge for remote distance wiring requirements)

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* • DALI** • Wireless (Casambi)***

* N. America only
** EMEA only
*** All regions

HOW TO ORDER

FBx	-	**BNx**	-		-		-		-		-	
1		2		3		4		5		6		7

1 MOUNTING
FBS = Suspended
FBM = Surface Mount

2 NOM. SIZE
BNM = Bullnose Medium
BNL = Bullnose Large

3 FLUX
HF = **H**igh **F**lux
SF = **S**td **F**lux

4 CCT
30 = **30**00K
35 = **35**00K
40 = **40**00K
TNW = **T**unable **W**hite

5 FINISH
WH = White
BL = Black

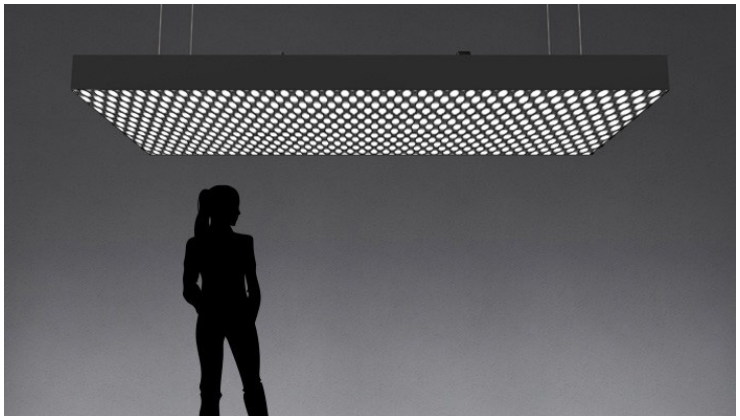
6 DIMMING
010 = **0-10**V
DAL = **DALI**[2]
DMX = **DMX**[3]
CAS = **Cas**ambi (Wireless)

7 CERTIFICATION
CE = **CE** Compliant
UL = **UL** Listed

FAUX PERFORATED METAL (PRINTED)

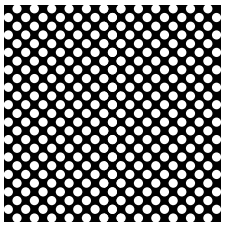
Make your design unique by adding the look of illuminated perforated metal panels to your FABRILum luminaires using images printed right on the diffuser fabric.

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

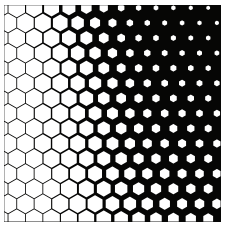


STANDARD PATTERNS

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



PATTERN A



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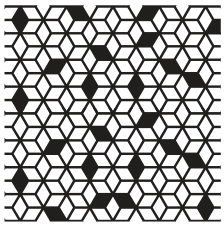
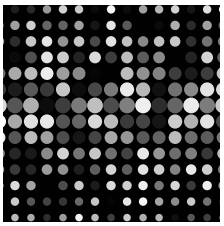
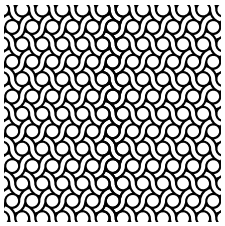


PATTERN C



PATTERN D



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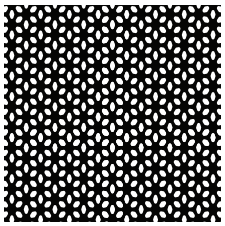
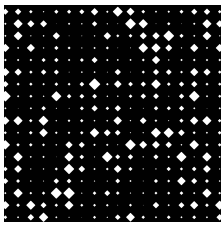
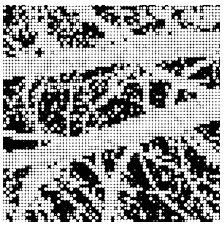


PATTERN F



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	____ Size/Type **BNM** **BNL**	____ 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 = Photopic Lux x 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/m2)	1465	2200

*Maximum occurs at 45°

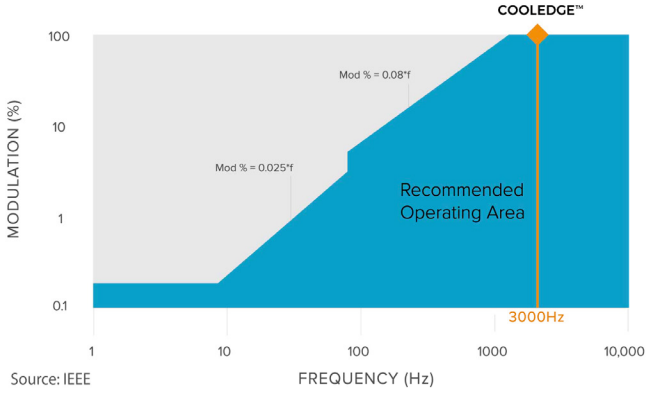
Feature L07: Electric Light Quality – Part 1 Ensure Color Rendering Quality

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