



COOLEDGE LUMINOUS CEILINGS FABRICATED LUMINAIRES - SUSPENDED CURVED CORNERS: SPECIFICATIONS

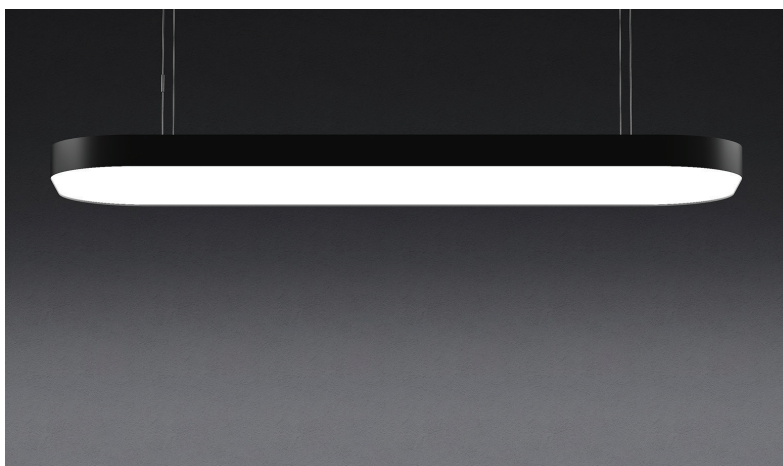
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|--------------|--|----------------|-------------------|
| PROJECT | | REFERENCE TYPE | |
| SPECIFIED BY | | QUANTITY | |
| DATE | | NOTE | Luminous Ceilings |

DESCRIPTION

Cooledge FABRICated Luminaires are a simple, out-of-the-box way to incorporate the unique look and feel of a stretch fabric ceiling into your space.

Curved Corner FABRICated Luminaires combine all of the elements of architectural form with acoustic performance on a scale that delivers immersive illumination for:

- Lobbies, atriums, and indoor plazas
- Open plan offices and co-working spaces
- Shop-in-shop retail
- Showrooms



SIZES

| Nominal Size |
|--|
| Medium 4' x 10' 1200mm x 3000mm |
| Large 6' x 9' 1800mm x 2700mm |

GENERAL

| | |
|-----------------------------------|------------------------------------|
| 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) |
| Operating Voltage | 58 VDC |
| Diffuser Material | Woven Polyester Fabric (coated) |
| Frame Material | Aluminum |
| Fire Rating | ASTM E84 Class A/EN:3501-1 Class B |
| Noise Reduction Coefficient (NRC) | Standard: 0.75 (ISO Class C) |



RoHS



Contact Cooledge for ordering
information for JA8 compliant models.

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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 | Flux (lm) | |
|--------|------------------|-----------|
| | Extra High (XHF) | High (HF) |
| Medium | 19220 | 12820 |
| Large | 31140 | 20760 |

| | |
|----------------------------|-----------|
| CRI (Ra) | >90 |
| Color Uniformity (Typical) | 2 SDCM |
| Lumen Maintenance (L80) | 75,000 hr |

TM-30-15 DATA

| CCT | TNW* | 3000K | 3500K | 4000K |
|-----|------|-------|-------|-------|
| Rf | 90 | 89 | 88 | 85 |
| Rg | 99 | 97 | 97 | 95 |

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

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

POWER

| Nominal Size | CCT | Extra High Flux (XHF) | High Flux (HF) |
|--|-------|-----------------------|----------------|
| | | Power (W) | Power (W) |
| Medium Nom. 4' x 10' Nom. 1200mm x 3000mm | TNW | 338.7 | 228.0 |
| | 3000K | 327.3 | 220.4 |
| | 3500K | 321.8 | 214.9 |
| | 4000K | 313.6 | 208.9 |
| Large Nom. 6' x 9' Nom. 1800mm x 2700mm | TNW | 528.5 | 353.7 |
| | 3000K | 508.6 | 341.7 |
| | 3500K | 499.8 | 332.8 |
| | 4000K | 489.2 | 323.6 |

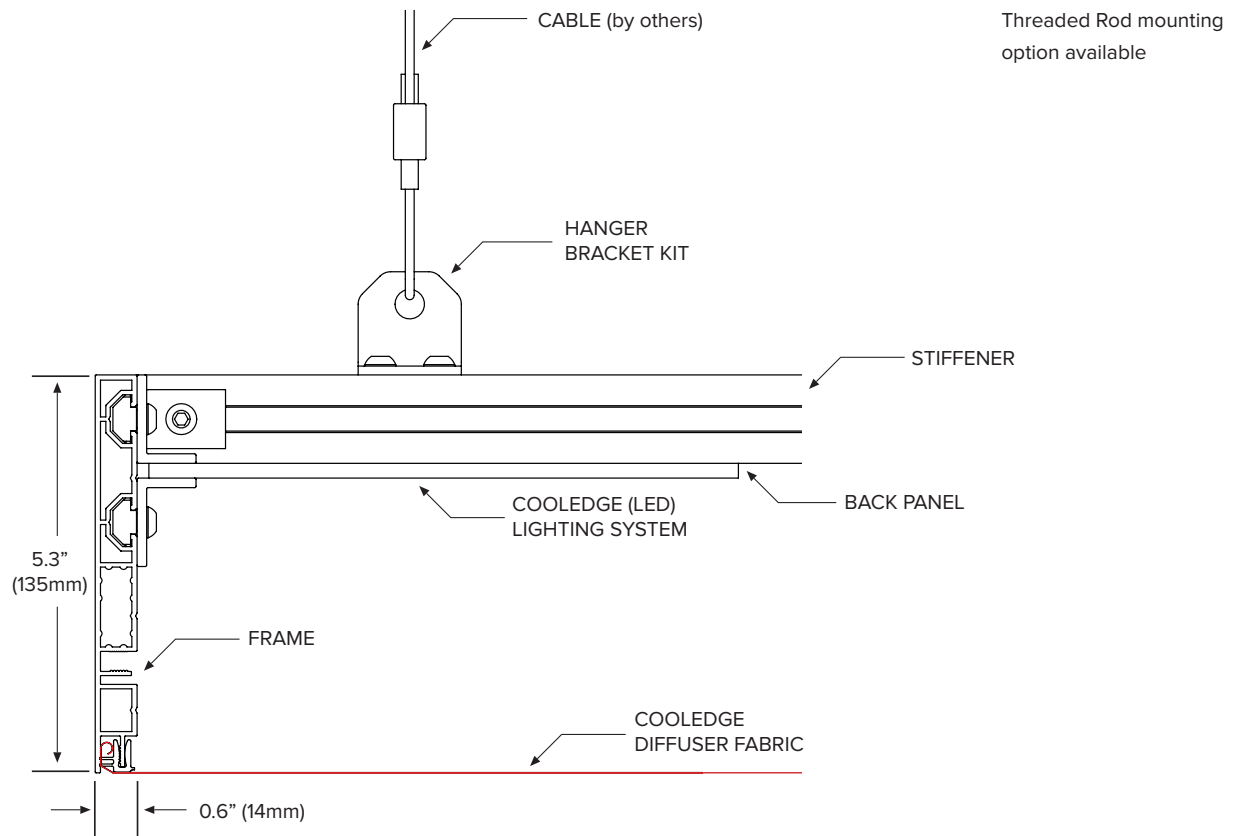
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DIMENSIONS

| Size | Order Code | External Dimensions – diameter (in/mm) | Weight (lb/kg) | # Mounting Points |
|--------|------------|--|----------------|----------------------|
| Medium | FLS-CCM | 46.3 x 117.2 / 1176 x 2976 | 83.3 / 37.8 | 4 |
| Large | FLS-CCL | 74.6 x 110.1 / 1896 x 2796 | 114.9 / 52.1 | 4 (Threaded Rod = 6) |

Height = 5.3"/135mm

MOUNTING DETAILS



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NOISE REDUCTION

Cooledge Curved Corner FABRICated Luminaires are unique in combining high quality, immersive illumination with sound absorption characteristics. In open concept areas FABRICated Luminaires can reduce or eliminate the need for additional sound absorbing materials such as baffles or clouds – especially useful where stone or tile floors are used.

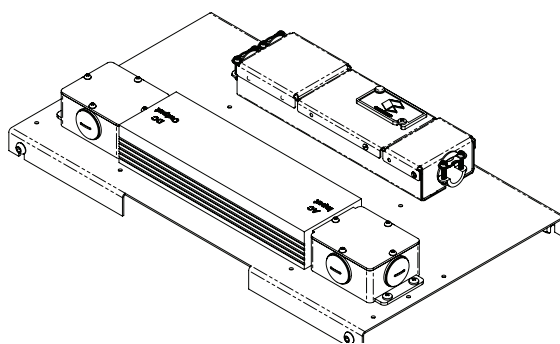
| NRC Value | Sound Absorption Class | Order Code Reference |
|-----------|------------------------|----------------------|
| 0.75 | Class C | "C" |

*NOTE: Contact Cooledge for
NRC = 1.0 (class A) options*

POWER AND CONTROL MOUNTING

Power Supply with
Cooledge Control Module

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



Power & Control Mounting Plate
(shipped in a separate package)

Mounting Plate Dimensions: 16.5" x 9.4" / 420mm x 239mm

FABRICated Luminaires offer two choices for locating the power and control components:

- **Integrated:** 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:** 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)

HOW TO ORDER

| FLS | | | | | | | | | C |
|-----|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

Static CCT

| 1 PRODUCT | 2 NOM. SIZE | 3 FLUX | 4 CCT | 5 MOUNTING | 6 DIMMING | 7 FINISH | 8 NRC | 9 CERTIFICATION |
|--|---|--|--|--|--|------------------------|----------|-------------------|
| FLS = FABRICated Luminaire -Suspended | CCM = Curved Corner Medium CCL = Curved Corner Large | HF = High Flux XHF = Extra High Flux | 30 = 3000K 35 = 3500K 40 = 4000K | AC = Aircraft Cable TR = Threaded Rod | 010 = 0-10V (1%) DAL = DALI/0-10V (0.05%) DMX = DMX (0.05%) CAS = Casambi (Wireless – 0.05%) | B = Black W = White | C = 0.75 | U = cUL C = CE |

Tunable White

| 1 PRODUCT | 2 NOM. SIZE | 3 FLUX | 4 CCT | 5 MOUNTING | 6 DIMMING | 7 FINISH | 8 NRC | 9 CERTIFICATION |
|--|---|--|---|--|--|------------------------|----------|-------------------|
| FLS = FABRICated Luminaire -Suspended | CCM = Curved Corner Medium CCL = Curved Corner Large | HF = High Flux XHF = Extra High Flux | TNW = Tunable White (2700K-5700K) | AC = Aircraft Cable TR = Threaded Rod | DAL = DALI/0-10V (0.05%) DMX = DMX (0.05%) CAS = Casambi (Wireless – 0.05%) | B = Black W = White | C = 0.75 | U = cUL C = CE |

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WELL STANDARD (V2)

Cooledge FABRICated 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 8 “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 FABRICated 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 FABRICated Luminaires

| | 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 FABRICated Luminaires

| | 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

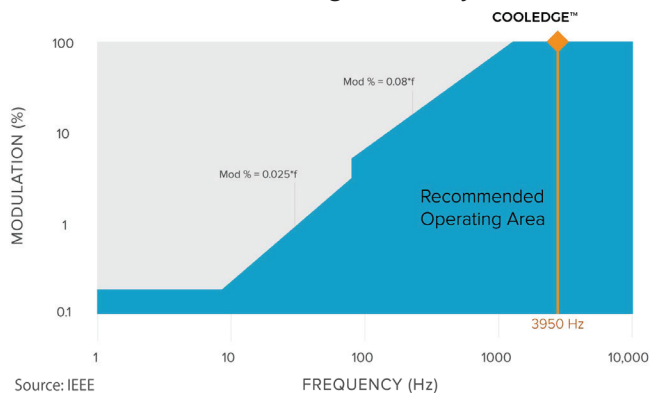
This feature requires minimum values for color rendering.

Compliance requirement (a): CRI > 90

CRI (Ra) for FABRICated Luminaires

| | TNW* | 3000K | 3500K | 4000K |
|----------|------|-------|-------|-------|
| CRI (Ra) | 96 | 93 | 93 | 93 |

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