

# COOLEGE™

# TILE INTERIOR

Create luminous ceilings, feature walls, and large graphic displays with Cooledge TILE Interior lighting systems.



Three choices of constant lumen output ensure consistent, highly calibrated illumination.

- Constant lumen output is a mandatory requirement for photometric modeling and illuminance calculations
- The lumen output options of Cooledge TILE Interior have been chosen to meet the illuminance requirements for specific applications from large luminous ceilings where energy codes play a critical role to feature walls using surfaces that require significantly more light to create the desired impact

Constant voltage electrical architecture is fully scalable without loss of performance or need to reconfigure drivers.

- Cooledge TILE Interior's constant voltage design ensures that illumination is always uniform and consistent independent of the size of the electrical load (# of TILES) connected to the LED driver. This also means that on-site layout changes will not require any changes to the drivers
- Constant current or hybrid products must be configured specifically to the quantity of LEDs per driver, and if on-site changes are required complex calculations and re-configuration of the drivers is needed. Incorrect configurations will result in visible intensity variations

Low setback distances, flexibility, and no requirement for a heat sink enable optimal integration into luminous surfaces.

- Cooledge TILE Interior can be mounted directly to most common, non-conductive, construction materials such as wood and drywall, and is uniform at setback distances as low as 50mm/2" depending on the luminous surface material chosen
- When linear sources are used to illuminate large surfaces they must be spaced very closely together at small setback distances, rendering this solution impractical

Cut-to-fit TILE Interior systems are adaptable to installations of any size and can accommodate obstacles and shapes.

- The Cooledge TILE Interior system includes components designed to adapt to on-site changes and accommodate unexpected obstacles that are a common occurrence during construction
- Alternative rigid products are typically custom configured for specific site conditions and cannot be cut or changed without impacting performance



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## PHOTOMETRIC HIGHLIGHTS<sup>1</sup>

### LUMEN OUTPUT

600lm, 300lm, 150lm per TILE (constant across all CCTs)  
Equivalent to 600/300/150 lm/sqft or 6450/3225/1600 lm/sqm

### CORRELATED COLOR TEMPERATURE (CCT)

2700K, 3000K, 3500K, 4000K, 5700K

### COLOR RENDERING

CRI > 90

### COLOR UNIFORMITY

Typical 2 SDCM

### LUMEN MAINTENANCE<sup>2</sup>

L80 = 75,000hr (based on LM-80 & TM-21 calculations)

<sup>1</sup> Photometric files available from [cooledgelighting.com](http://cooledgelighting.com)

<sup>2</sup> Based on LM80 data & TM-21 calculations

Each Cooledge TILE Interior light emitting sheet is scanned using a proprietary process that measures the flux, color uniformity, and Color Rendering Index (CRI) to ensure that it meets stringent specifications for optical performance.

## TRANSFORMING LIGHT

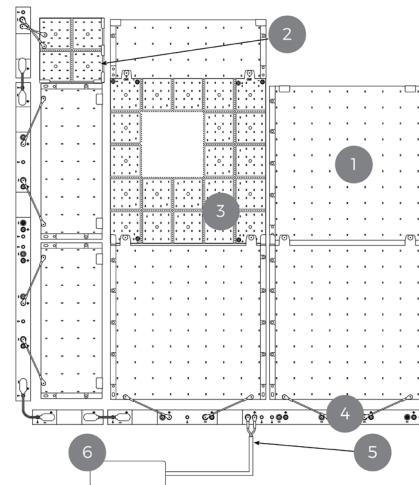
The adoption of LED technology has improved the efficacy, quality, and control of lighting, but has not changed the way illumination is designed and delivered. Lighting continues to be confined to the same bulbs and metal boxes the industry has used since its inception.

Cooledge TILE Interior transforms light from points and lines to seamless integration into all forms and scale of the built environment. The result is immersive illumination that replicates natural light and improves occupants' experience of space.



## TILE INTERIOR SYSTEM OVERVIEW

- 1 TILE Interior**  
*Flexible light emitting sheet*
- 2 TILE Interior Corner Kit (optional)**  
*Cut-to-fit TILE and wiring for corners*
- 3 TILE Interior Cut-out Kit (optional)**  
*Cut-to-fit TILE and wiring for obstacles*
- 4 TILE Interior Connector Kit**  
*Conducts power to the TILES*
- 5 TILE Interior Starter Cable**  
*Connects LED Driver to Connector Strip*
- 6 LED Driver**  
*Supplies up to 90W of 24VDC power and dimming signals for system*



5 Year Limited Warranty:  
Parts and workmanship  
when used with a Cooledge  
approved power supply.

In Canada, TILE Interior must be  
installed within an enclosure

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