

COOLEEDGE™

TILE TUNABLE WHITE

Replicate natural light both in scale & through dynamic changes in color temperature and light level



Unique system design provides constant lumen output at all CCTs in the range 2700K-5700K and at all dimming levels.

- Cooledge TILE Tunable White delivers the desired lumen output at all CCT's within the tunable range AND can be dimmed without changing the CCT
- Many tunable white systems simply add the light emitted from warm CCT LEDs to that of cool LEDs to obtain a range of CCTs between the two. Using this method, the quantity of light fluctuates, with more light available at the midpoint between the CCTs and less at the ends of the tunable range. More advanced products overcome this issue by dimming the warm and cool LEDs separately to provide constant output, but this method is restricted to a single light output level meaning that CCT tuning and dimming cannot be done simultaneously

Deep dimming capability down to 0.05% light output.

- For applications where deep dimming is required Cooledge has incorporated the capability of smoothly dimming to 0.05% of full light output

Two control channels allow dimming and CCT tuning on simple control interfaces or as input from building controls systems.

- Cooledge TILE Tunable White uses separate 0/1-10V input channels to control dimming and CCT tuning. This allows the use of simple control interfaces, such as wall panels or dimmers to enable tunable illumination
- Alternatively, the two channels may be addressed by building control systems to independently set the CCT or the dim level, creating specific scenes that may include circadian cycles, seasonal settings, or task vs social illumination

Cut-to-fit means systems are adaptable to any size installation and can accommodate obstacles and shapes.

- The Cooledge TILE Tunable White 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

LFI 2017 Innovation Award Winner



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PHOTOMETRIC HIGHLIGHTS¹

LUMEN OUTPUT

600lm, 300lm, 150lm per TILE (constant for all CCTs)

Equivalent to 600/300/150 lm/sqft or 6450/3225/1600 lm/sqm

CORRELATED COLOR TEMPERATURE (CCT)

2700K-5700K

COLOR RENDERING

CRI > 90

COLOR UNIFORMITY

Typical 2 SDCM

LUMEN MAINTENANCE²

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

¹ Photometric files available from cooledgelighting.com

² Based on LM80 data & TM-21 calculations

Each Cooledge TILE Tunable White 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.

ADAPTIVE LIGHTING FOR IMMERSIVE ENVIRONMENTS

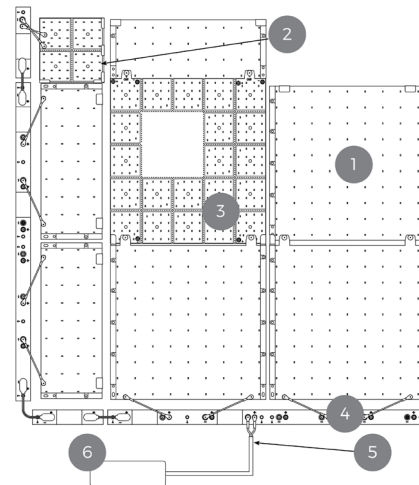
Cooledge TILE Tunable White systems provide a single dimmable and tunable system to deliver illumination that can replicate the many benefits of natural light and dynamically set the mood for any interior space.

With TILE Tunable White it is possible emulate daylight both in scale and through dynamic changes in color temperature for lighting that adapts to changing needs and delivers an immersive experience.



TILE TUNABLE WHITE SYSTEM OVERVIEW

- 1 TILE Tunable White**
Flexible light emitting sheet
- 2 TILE Tunable White Corner Kit (optional)**
Cut-to-fit TILE and wiring for corners
- 3 TILE Tunable White Cut-out Kit (optional)**
Cut-to-fit TILE and wiring for obstacles
- 4 TILE Tunable White Connector Kit**
2-channel strip conducts power to the TILES
- 5 TILE Tunable White Starter Cable**
Connects LED Driver to Connector Strip
- 6 LED Driver**
Supplies up to 90W of 58VDC power for system and control signals for system



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

In Canada, TILE Tunable White must
be installed within an enclosure

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