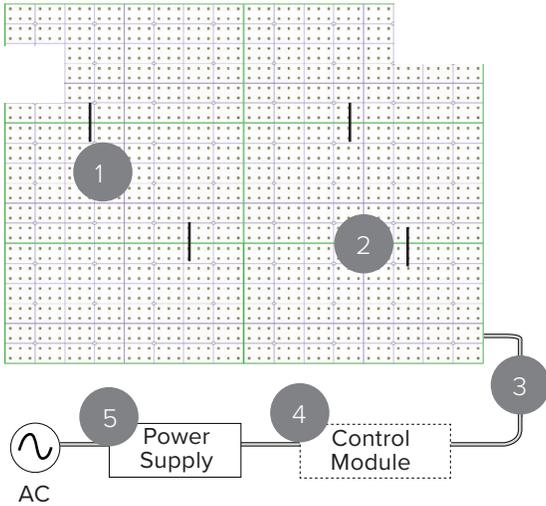




## COOLEEDGE TILE W+RGB - SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	

### SYSTEM OVERVIEW



Superior quality white illumination that can be fine-tuned to your exact requirements with the ability to add dynamic colors.

1	W+RGB TILE
2	Jumper Cable
3	Starter Cable (6.6'/2.0m length)
4	Control Module
5	Power Supply

### SPECIFICATION

cUL Listed lighting system inclusive of flexible light emitting sheets, connectors, low voltage cables, and power & controls. Light output uniformity from the system must be at least +/-10% across the total illuminated area post-installation. The lighting system must have a Color Rendering index (CRI)  $\geq 90$  at all CCTs between 3000K-5700K and for all dimming levels. Electrical connections between cables and light emitting sheets must be tool-less and allow more than one connect/disconnect iteration. System must be configurable on-site and include the capability to accommodate obstacles, angles, and curves. System warranty is a minimum of 5 years.

### GENERAL

Location	Indoor, dry location only
Operating Temp.	-20-+60°C (-4-+140°F)
Storage Temp.	-20-+70°C (-4-+158°F)
Input Voltage (to power supply)	120-277 VAC
Operating Voltage	24 VDC
Electrical Connections	Tool-less plug connectors
Mounting Surface	Non-conductive* (eg. drywall, plywood, etc)

\*Mounting to a conductive surface may void warranty. Please contact Cooledge if this is required.

### FEATURES

- Exceptional light quality for general illumination
- Enables the ability to select tunable white CCT values with superior CRI and R9 values
- Cooledge Control Modules accept DMX and Casambi (wireless) for full color control
- Cut-to-fit means systems are adaptable to any size installation and can accommodate obstacles and shapes
- Constant voltage electrical architecture is fully scalable without loss of performance or need to reconfigure drivers
- Low setback distances, flexibility, and no requirement for a heat sink enable optimal integration with luminous surfaces

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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.

PHOTOMETRICS

Color	CCT/Wavelength (K/nm)	Luminous Flux (lm/sqft)	CRI	Voltage (DC V)	Power (W/sqft)
Red	620-630	152	--	24	5.8
Green	510-530	482	--		5.8
Blue	460-470	114	--		5.8
White	3500K	510	90		5.8
W+R+G+B	N/A	1265	--		23.0

TUNABLE WHITE CHARACTERISTICS

Nominal CCT	CRI	R9
2700K	80	51
3000K	90	79
3500K	95	95
4000K	95	97
5000K	93	96
5700K	91	88

CERTIFICATIONS



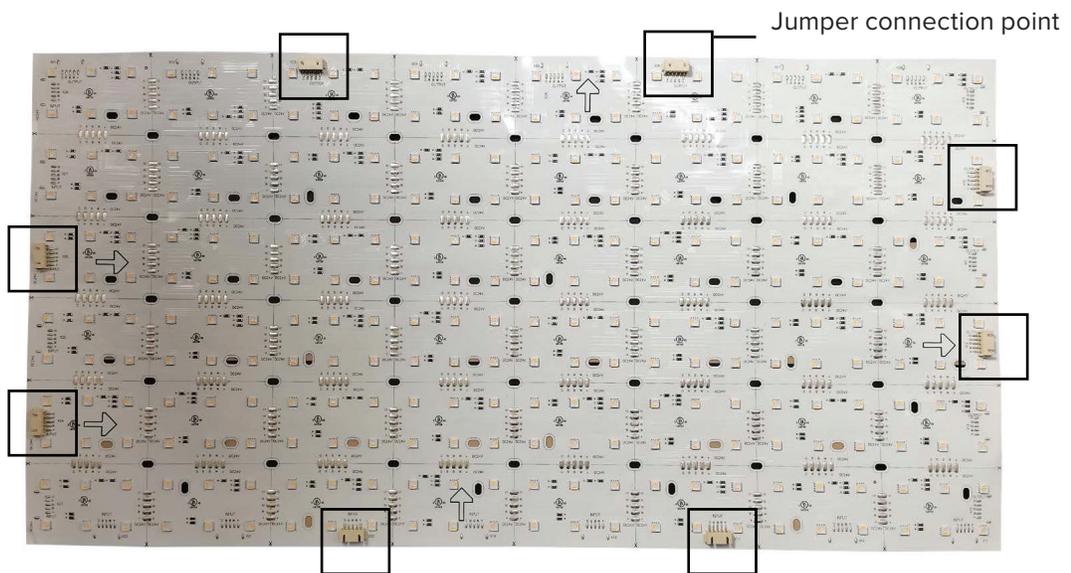
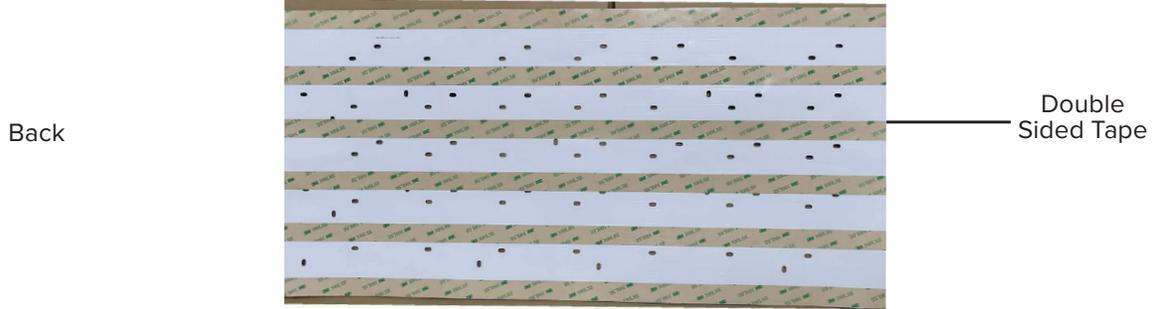
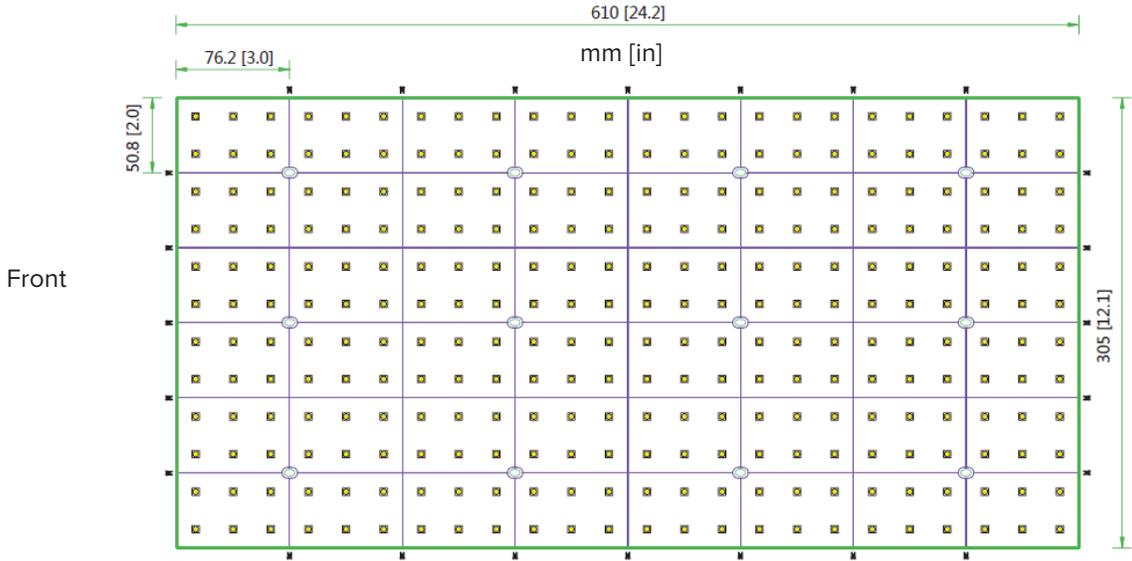
**RoHS**

WARRANTY



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

DIMENSIONS



## POWER AND CONTROL

Additional specifications for the power supplies and Cooledge Control Modules for W+RGB are available in the following document:

- Power and Control Specifications (cUL Listed)

### POWER SUPPLIES (24V)

**Purpose:** Convert AC main (line) power to safe, low voltage DC power.

Order Code	# Controller Channels	Certification	Enclosure
EPSS-400-24V	4	cUL Listed	Yes

### COOLEEDGE CONTROL MODULES (24V)

**Purpose:** Receives 24VDC power from the power supply and converts it to max. 90W per channel of controlled output to drive W+RGB sheets. Also receives input control from one of 2 protocol options to control color and dimming levels. These are cUL Listed and CE Compliant.

Order Code	Function	Protocols
CTR-WRGB-DMX-24V	W+RGB	DMX
CTR-WRGB-CAS-24V	W+RGB	Casambi (Wireless)

## HOW TO ORDER

Order Code	Description
TILE-WRGB-35-R1	Cooledge TILE W+RGB (12" x 24"/305mm x 610mm), 3500K White, 24VDC
TCBL-WRGB-JMP	Jumper cable; connection between TILE W+RGB sheets
TACC-WRGB-STR-K	Starter cable (6.6'/2.0m length); connection between Control Module and TILE W+RGB
CTR-WRGB-DMX-24V	Cooledge Control Module, DMX input, 24V
CTR-WRGB-CAS-24V	Cooledge Control Module, Casambi (Wireless) input, 24V
EPSS-400-24V	400W Power Supply, 24 VDC output