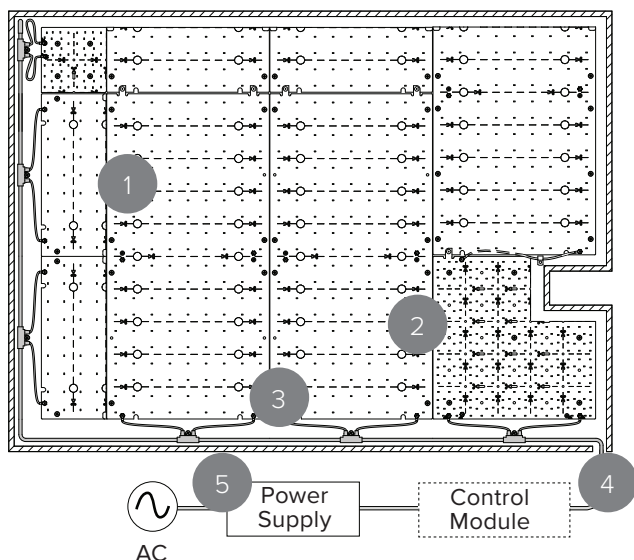




COOLEDGE cUL TILE EXTERIOR R2 - SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	For Luminous Surfaces

SYSTEM OVERVIEW



Illuminate facades, canopies, entrances (including arches & columns) and large-scale graphics

1	TILE Exterior R2
2	TILE Exterior R2 Cut-out
3	TILE T-Cable
4	TILE Exterior Starter Kit
5	Power and Control

GENERAL

Location	Damp location
Ingress Protection	IP65
Operating Temp.	-4 to 131°F
Storage Temp.	-40 to 158°F
Relative Humidity	90% max (non-condensing)
Operating Voltage	58 VDC
Electrical Connections	Tool-less snap connectors
Exposure	Not to be exposed to direct sunlight, rain or snow. Intended for installation behind diffuser materials.

SPECIFICATION

cUL Listed Damp Location lighting system inclusive of flexible light emitting sheets, connectors, low voltage cables, and LED drivers. Light output from the system must be $\pm 10\%$ of 900/600/300 lumens/sqft across the total illuminated area post-installation. Color Rendering Index (CRI) must be >90 and color consistency between light sheets must be typical 3 SDCM. Electrical connections between light emitting sheets and between cables and light emitting sheets must be tool-less and allow more than one connect/ disconnect iteration. System must include the capability to accommodate obstacles, angles, and curves. System warranty is 5 years.

FEATURES

- Three choices of constant lumen output ensure consistent highly calibrated illumination
- Color consistency of typically 3 SDCM between TILES meets stringent requirements for large area installations
- Factory cutting and sealing means systems are adaptable to any size installation and can accommodate obstacles and shapes while reducing installation time and potential errors
- 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
- Multiple options for dimming, lumen level, and CCT offer the most adaptable illumination for large surface areas available today
- Mounts directly to non-conductive construction materials (eg. drywall, plywood)

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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.

PHOTOMETRICS¹

Light Output (lm/sqft)	900, 600, 300
Correlated Color Temperature (CCT) ³	2700K, 3000K, 3500K, 4000K, 5700K, TNW ⁴
Color Rendering Index (CRI)	≥ 90
Color Uniformity	3 SDCM (typical)
Lumen Maintenance ²	L70 = 50,000hr

¹ Photometric files available from cooledgelighting.com

² Based on LM80 data & TM-21 calculations

³ CCT shown is nominal. Contact Cooledge for specific values

⁴ Tunable White = 2700K - 5700K

POWER

Light Output (lm/sqft)	CCT	Power (W/sqft)
900	2700K	8.7
	3000K	8.4
	3500K	8.2
	4000K	8.1
	5700K	7.4
600	2700K	5.8
	3000K	5.6
	3500K	5.5
	4000K	5.3
	5700K	5.1
300	2700K	2.8
	3000K	2.7
	3500K	2.7
	4000K	2.6
	5700K	2.5

CERTIFICATIONS



In Canada, TILE Exterior R2 must be installed within an enclosure.

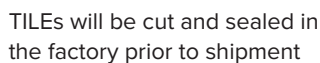
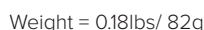
RoHS

IP65

WARRANTY



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



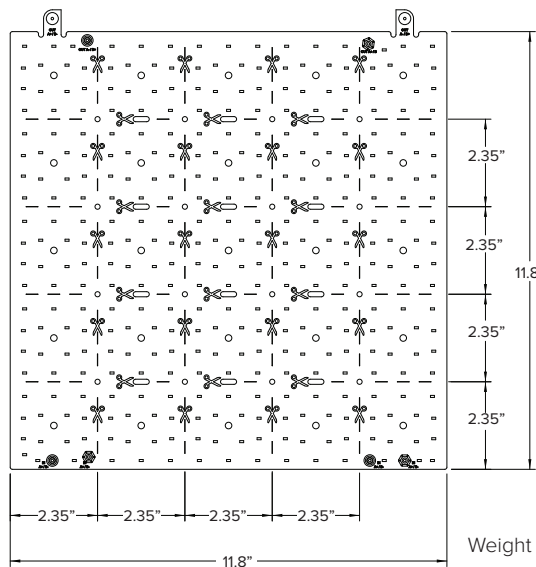
Example: TILE-EXT-600-30-R2

[illegible]

2 TILE EXTERIOR R2 CUT-OUT KIT = 2

INCLUDED

- (2) Cable Clamps
- (2) Jumper Cables
- (1) Cut-out Tile



TILEs will be cut
and sealed in the
factory prior to
shipment

Weight = 0.10lbs / 45g

HOW TO ORDER

Example: TACC-EXT-CUT-600-30-R2

TACC	-	EXT	-	CUT	-		-	R2	
<u>PRODUCT</u> TACC = TILE Accessory		<u>TYPE</u> EXT = Exterior		<u>COMPONENT</u> CUT = Cut-out Kit		<u>FLUX</u> 900 = 900lm/sqft 600 = 600lm/sqft 300 = 300lm/sqft		<u>CCT</u> 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 57 = 5700K TNW = Tunable White	<u>KIT</u> R2 = Revision 2

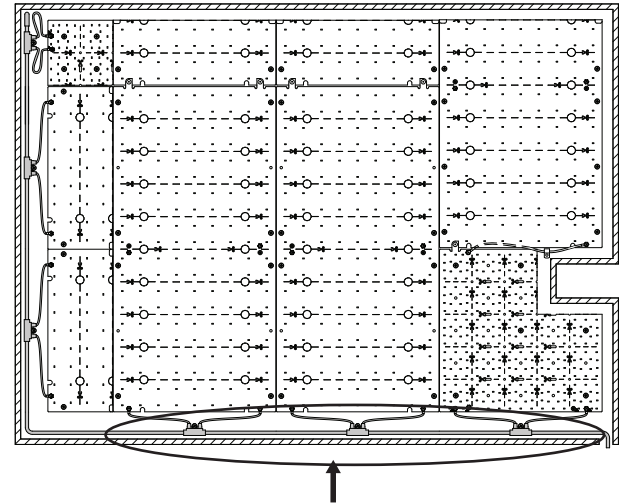
3 TILE T-CABLE = 3

Purpose: Makes the electrical connection to the first TILE in each run from the Starter Cable that supplies power from the power/control components. Each “T” connects to a TILE via snap connectors. (Required)

HOW TO ORDER

Example: TCBL-T10

TCBL	-	
PRODUCT	TYPE	
TCBL = TILE Cable	T4 = 4 T-Connectors (weight = .13lb)	
	T10 = 10 T-Connectors (weight = .66lb)	

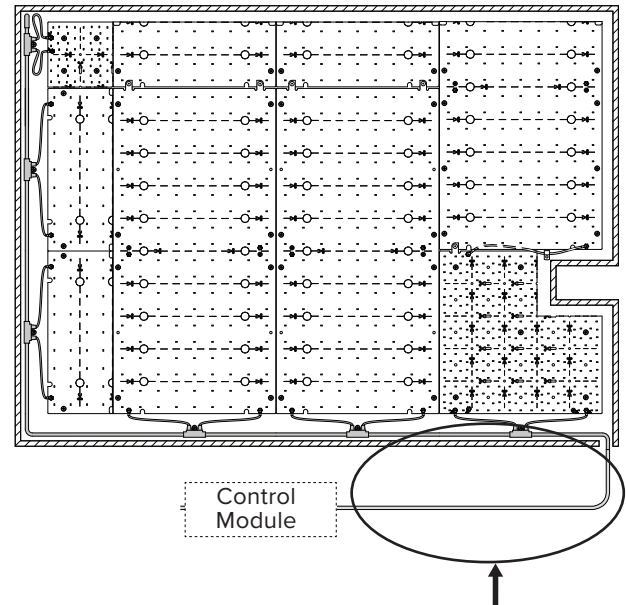
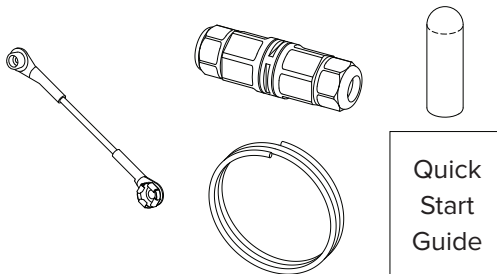


4 TILE EXTERIOR STARTER KIT = 4

Purpose: Includes the Starter Cable that makes the connection from the Power/Control components to the T-Cable and other accessories required for wire termination and connections.

INCLUDED

- (2) IP65 Splice Connectors.
- (4) End Caps
- (4) Cut TILE Reuse Jumper Cables
- (1) 16 AWG (1.3mm²) Cable, 10 ft (3m) Length
- (1) Quick Start Guide
- (6) Insulation Patches



HOW TO ORDER

Example: TACC-EXT-STR

TACC	-	EXT	-	STR
PRODUCT	TYPE		TYPE	
TACC = TILE Accessory	EXT = Exterior		STR = Starter	

5 POWER AND CONTROL = 5

Specifications for the power supplies and Cooledge Control Modules shown below are available in the following document:
- PSD-0007 cUL Listed Power and Control Specifications

The models shown below are those that are compatible with TILE Exterior R2 Systems for regions where cUL listed products are required.

POWER SUPPLIES (58V)

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

Order Code	IP Rating	# Controller Channels ³
EPSS-200-58V-EXT ¹	IP66 ²	2
EPSS-400-58V-EXT ¹	IP66 ²	4

¹Includes two conduit adapters suitable for ½" cable glands.

²Includes integrated input and output junction boxes

³Class 2 (max 90W) output

COOLEEDGE CONTROL MODULES (58V)

Purpose: Receives 58VDC power from the power supply and converts it to max. 90W per channel of controlled output to drive TILE Exterior R2 sheets. Also receives input control from one of 4 protocol options to control dimming levels. (Optional)

Order Code	Protocols
CTR-SCT-DAL-58V	DALI/0/1-10V
CTR-SCT-DMX-58V	DMX
CTR-SCT-CAS-58V	Casambi (wireless)

For exterior applications, Cooledge Control Modules must be mounted within an appropriate IP65 or higher UL Listed enclosure. The minimum recommended for size for the enclosure is 14.2" L x 6.3" W X 3.6" H. Please contact Cooledge Lighting for recommendations.

ADDITIONAL ACCESSORIES

EXTENSION CABLES

- 16 AWG cable (non-plenum rated)
- Available in 10' & 20' lengths

Purpose: Cable between TILE Starter Cable and Cooledge Control Module that extends the distance the Cooledge Control Module and power supply may be remotely located away from the TILES. Please consult Cooledge for additional information including requirements for plenum rated cables.

IP65 SPLICE CONNECTOR

Purpose: Connect Extension Cable to Starter Cable

