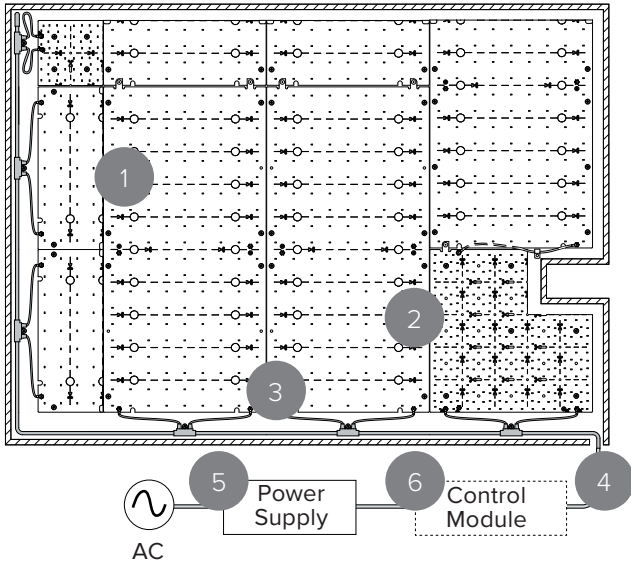


COOLEEDGE™

COOLEEDGE TILE INTERIOR - SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	For Luminous Surfaces

SYSTEM OVERVIEW



Create luminous ceilings, feature walls, and large graphics displays with Cooleedge TILE Interior products

1	TILE Interior
2	TILE Interior Cut-out Kit <i>(optional)</i>
3	TILE Interior T-Cable
4	TILE Interior Starter Cable*
5	Power Supply
6	Control Module <i>(optional)</i>

*Included in TILE Interior Starter Kit

GENERAL

Location	Indoor, dry location only
Operating Temp.	0-40°C
Storage Temp.	-40-85°C
Relative Humidity	90% max (non-condensing)
Operating Voltage	58 VDC
Electrical Connections	Tool-less snap connectors
Mounting Surface	Non-conductive (drywall, plywood, etc)

FEATURES

- Four choices of constant lumen output ensure consistent highly calibrated illumination
- Color consistency of typically 2 SDCM between TILES meets stringent requirements for large area installations
- 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
- Multiple options for dimming, lumen level, and CCT offer the most adaptable illumination for large surface areas available today
- Mounts directly to most common non-conductive construction materials (eg. drywall, plywood)

SPECIFICATION

CE Compliant lighting system inclusive of flexible light emitting sheets, connectors, low voltage cables, and LED drivers. Light output from the system must be +/- 10% of 9680/6460/3230/1610 lumens/m² across the total illuminated area post-installation. Color Rendering Index (CRI) must be >90 and color consistency between light sheets must be typical 2 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 be configurable on-site and include the capability to accommodate obstacles, angles, and curves. System warranty is a minimum of 5 years.

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Cooleedge 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.

COOLEGE TILE INTERIOR - SPECIFICATIONS

PHOTOMETRICS¹

Light Output (lm/m ²)	9680 ³ , 6460, 3230, 1610
Correlated Color Temperature (CCT)	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
Color Rendering Index (CRI)	≥ 90 (except 2200K, CRI88)
Color Uniformity	2 SDCM (typical)
Lumen Maintenance ²	L80 = 75,000hr

¹ Photometric files available from cooledgelighting.com

² Based on LM80 data & TM-21 calculations

³ Not available in 2200K

IESNA TM-30-15 DATA

CCT	Rf	Rg
2200K	87	99
2700K	88	97
3000K	88	97
3500K	87	96
4000K	87	96
5700K	90	100

POWER

Light Output (lm/m ²)	CCT	Power (W/m ²)	EcoDesign Class
9680	2200K	N/A	N/A
	2700K	93.6	F
	3000K	89.8	F
	3500K	88.2	F
	4000K	86.6	F
	5700K	79.1	E
6460	2200K	72.1	N/A
	2700K	62.4	F
	3000K	60.3	F
	3500K	58.6	F
	4000K	57.0	F
	5700K	54.3	F
3230	2200K	34.4	F
	2700K	30.1	F
	3000K	29.1	F
	3500K	28.5	F
	4000K	28.0	F
	5700K	26.9	E
1610	2200K	16.7	F
	2700K	14.5	F
	3000K	14.0	F
	3500K	14.0	F
	4000K	14.0	F
	5700K	13.5	F

CERTIFICATIONS



In Canada, TILE Interior must be installed within an enclosure.



RoHS

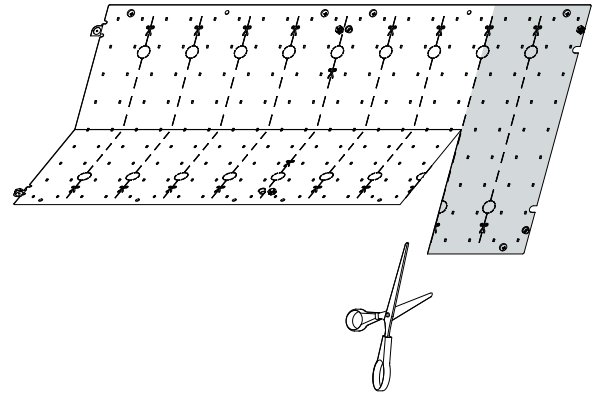
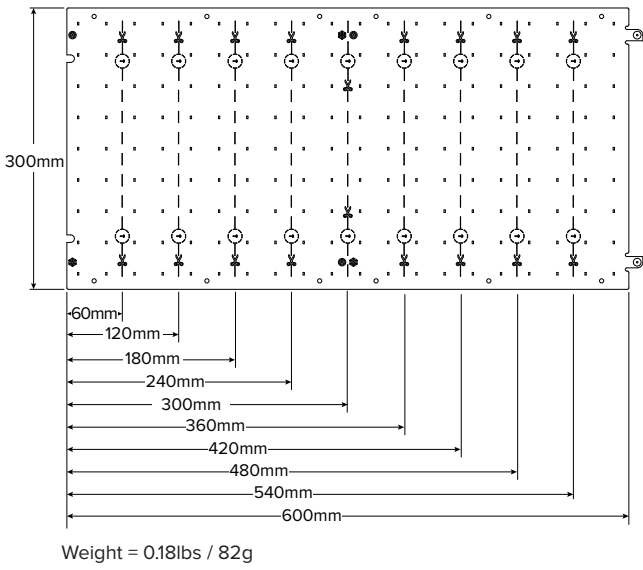
WARRANTY



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



1 TILE INTERIOR



HOW TO ORDER

Example: TILE-INT-600-40-R2*

TILE	-	INT	-	-	-	R2	
<u>PRODUCT</u> TILE		<u>TYPE</u> INT = Interior		<u>FLUX</u> 900 = 9680lm/m ² (900lm per 300x300mm) 600 = 6460lm/m ² (600lm per 300x300mm) 300 = 3230lm/m ² (300lm per 300x300mm) 150 = 1610lm/m ² (150lm per 300x300mm)		<u>CCT</u> 22 = 2200K 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 57 = 5700K	<u>Version</u> R2 = Revision 2

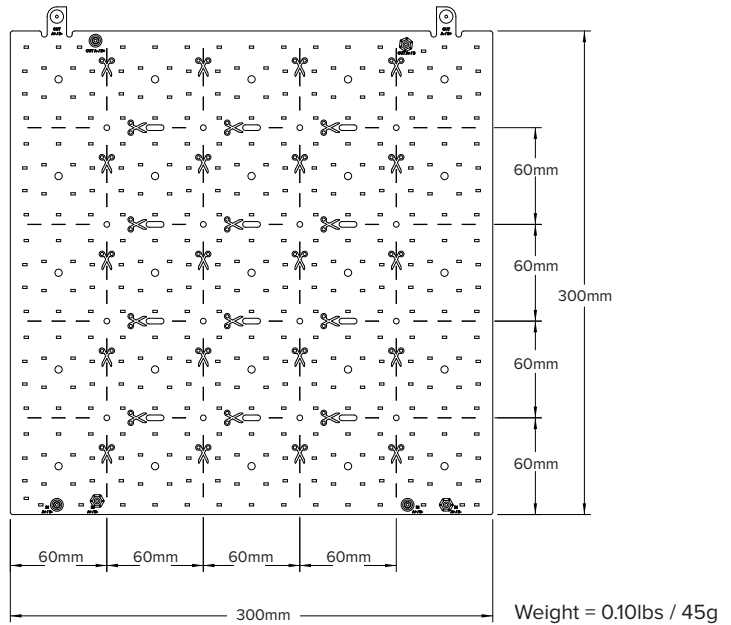
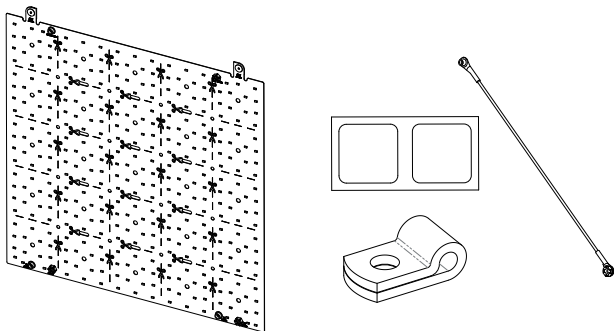
*May be identified as "C2" in some regions

2 TILE INTERIOR CUT-OUT KIT

Purpose: Cut-to-fit around obstacles located in the middle of a luminous surface such as standoffs, support cables/rods, beams, pipes, etc.; used in corners where a full TILE does not fit in the space; or to step cut along angles and curves in a luminous surface. (Optional)

INCLUDED

- (1) Cut-out TILE (300mm x 300mm)
- (2) Insulating Patches
- (1) Cable Clamp
- (1) Jumper Cable



HOW TO ORDER

Example: TACC-INT-CUT-600-35-K*

TACC	-	INT	-	CUT	-	-	-	K	
<u>PRODUCT</u> TACC = TILE Accessory		<u>TYPE</u> INT = Interior		<u>COMPONENT</u> CUT = Cut-out Kit		<u>FLUX</u> 900 = 9680lm/m ² (900lm per 300x300mm) 600 = 6460lm/m ² (600lm per 300x300mm) 300 = 3230lm/m ² (300lm per 300x300mm) 150 = 1610lm/m ² (150lm per 300x300mm)		<u>CCT</u> 22 = 2200K 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 57 = 5700K	<u>KIT</u> K = Kit

*May be identified as "K-C2" in some regions

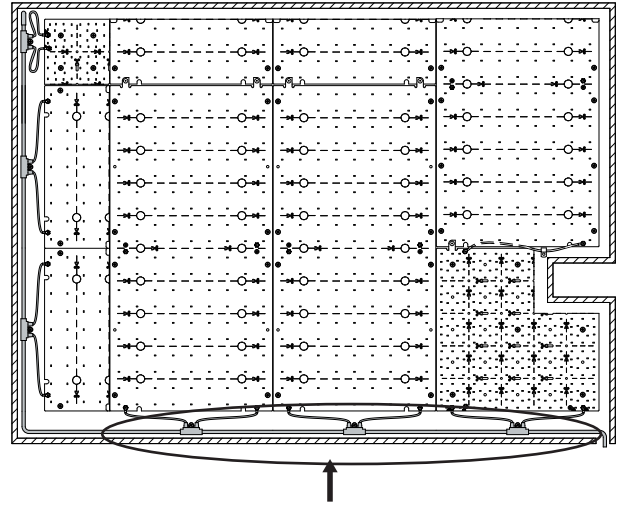
3 TILE INTERIOR T-CABLE

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 TCBL = TILE Cable		TYPE T4 = 4 T-Connectors (weight = 60g) T10 = 10 T-Connectors (weight = 300g)

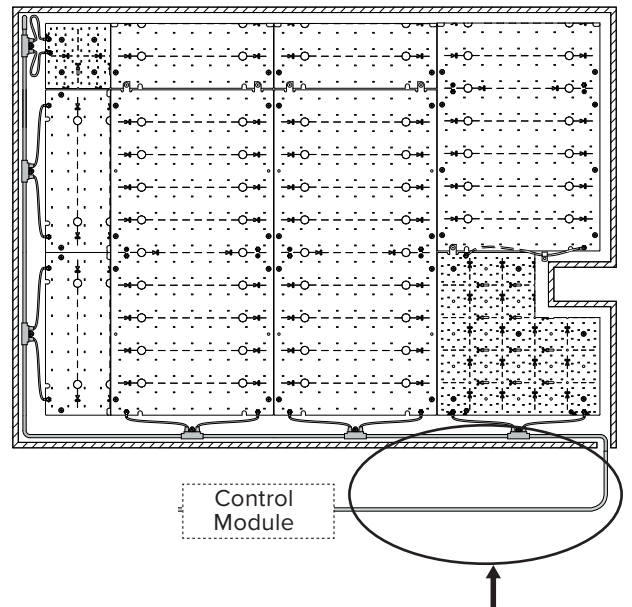
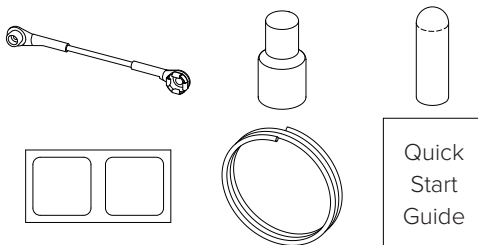


4 TILE INTERIOR STARTER KIT

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. Insulating patches are required to cover areas of TILES where cuts have been made. (Required)

INCLUDED

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



HOW TO ORDER

Example: TACC-STR-K

TACC	-	STR	-	K
PRODUCT TACC = TILE Accessory		TYPE STR = Starter		KIT K = Kit

5 POWER AND CONTROL

Specifications for the power supplies and Cooledge Control Modules shown below are available in:

- Power and Control Specifications (CE Compliant)

The models shown below are those that are compatible with TILE Interior Systems for regions where CE Compliant products are required.

POWER SUPPLIES (58V)

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

Order Code	# Controller Channels*	Enclosure
PSS-100-58V	1	No
PSS-200-58V	2	No
EPSS-400-58V	4	Yes

*Class 2 (max 90W) output

COOLEGE 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 Interior sheets. Also receives input control from one of 4 protocol options to control dimming levels. (Optional)

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

ADDITIONAL ACCESSORIES

EXTENSION CABLES

- 1.3mm² cable (non-plenum rated)
- Available in 3m and 6m lengths

Purpose: Cable between TILE Starter Cable and Control Module that extends the distance the 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.

