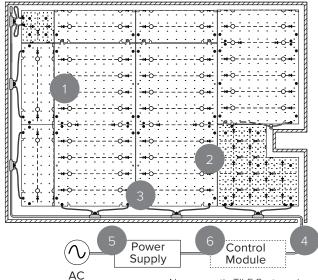
### **COOLEDGE TILE INTERIOR ACOUSTIC - SPECIFICATIONS**



PROJECT	REFERENCE TYPE	
SPECIFIED BY	QUANTITY	
DATE	NOTE	For Luminous Surfaces

## SYSTEM OVERVIEW



Non-acoustic TILE System shown

#### **GENERAL**

Location	Indoor, dry location only
Operating Temp.	0-40°C
Storage Temp.	-40-85°C
Relative Humidity	90% max (non-condensing)
Operating Voltage	54 VDC
Electrical Connections	Tool-less snap connectors
Mounting Surface	Non-conductive* (drywall, plywood, etc)

\*Mounting to a conductive surface may void warranty. Please contact Cooledge if this is required Create luminous ceilings, feature walls, and large graphics displays with Cooledge TILE Interior products

1	TILE Interior
2	TILE Interior Cut-out Kit - non-acoustic (optional)
3	TILE Interior T-Cable
4	TILE Interior Starter Cable*
5	Power Supply
6	Control Module (optional)

\*Included in TILE Interior Starter Kit

### **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.

# **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)

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T +1844 455 4448 W cooledgelighting.com 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.

## **COOLEDGE TILE INTERIOR ACOUSTIC - SPECIFICATIONS**

## PHOTOMETRICS<sup>1</sup>

Light Output (Im/m²)	9680³, 6460, 3230, 1610
Correlated Color Temperature (CCT)	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
Color Rendering Index (CRI)	≥ 90
Color Uniformity	2 SDCM (typical)
Lumen Maintenance <sup>2</sup>	L80 = 75,000hr

<sup>1</sup> Photometric files available from cooledgelighting.com

# **POWER**

Light Output (lm/m²)	ССТ	Power (W/m²)	EcoDesign Class
	2200K	N/A	N/A
	2700K	74.4	Е
0000	3000K	68.3	D
9680	3500K	66.7	D
	4000K	66.7	D
	5700K	66.7	D
	2200K	53.3	Е
	2700K	50.0	Е
C4C0	3000K	46.7	Е
6460	3500K	43.9	D
	4000K	44.4	D
	5700K	45.6	D
	2200K	26.7	Е
	2700K	24.4	Е
3230	3000K	23.3	Е
3230	3500K	21.7	D
	4000K	22.2	D
	5700K	21.7	D
	2200K	13.3	Е
	2700K	12.2	Е
1610	3000K	11.7	Е
1010	3500K	11.1	D
	4000K	11.1	D
	5700K	11.1	D

# $\begin{array}{c|c} A \\ \updownarrow \\ G \end{array} \quad D \qquad \begin{array}{c|c} A \\ \updownarrow \\ G \end{array}$

#### IESNA TM-30-18 DATA

ССТ	Rf	Rg
2200K	91	99
2700K	91	100
3000K	87	97
3500K	88	97
4000K	90	100
5700K	87	97

### **CERTIFICATIONS**











## **ACOUSTIC PERFORMANCE**

When Cooledge TILE Acoustic products are mounted to an acoustic backing material with a Noise Reduction Coefficient (NRC) rating of 1.0, Cooledge estimates that the resulting NRC value of the combined light emitting panel will be in the range of NRC = 0.5-0.7 depending on the surrounding environmental factors.

## **WARRANTY**

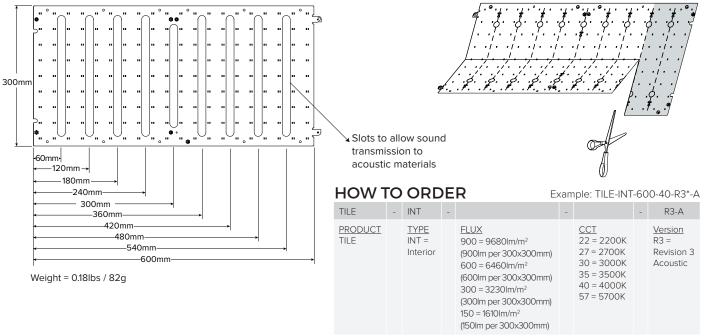


5 Year Limited Warranty: Parts and workmanship when used with a Cooledge approved power supply.

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

<sup>3</sup> Not available in 2200K

# 1 TILE INTERIOR ACOUSTIC



#### \*May be identified as "C3" in some regions

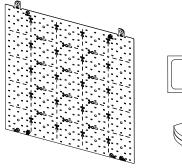
# 2 TILE INTERIOR CUT-OUT KIT (NON-ACOUSTIC)

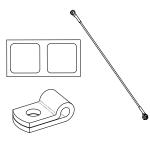
**Purpose:** Cut-to-fit around obstacles located in the middle of a luminous surface such as standoffs, support cables/rods, beams, pipes, etc.; used in corners where a full TILE does not fit in the space; or to step cut along angles and curves in a

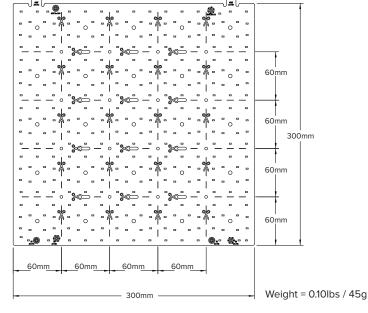


## **INCLUDED**

- (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\*-R3

TACC	-	INT	-	CUT	-		-		-	K	-	R3
PRODUCT TACC = TILE Accessory		TYPE INT = Interior		COMPONENT CUT = Cut-out Kit		FLUX 900 = 9680lm/m² (900lm per 300x300mm) 600 = 6460lm/m² (600lm per 300x300mm) 300 = 3230lm/m² (300lm per 300x300mm) 150 = 1610lm/m² (150lm per 300x300mm)		CCT 22 = 2200K 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 57 = 5700K		KIT K = Kit		<u>VERSION</u> R3 = Revision 3

\*May be identified as "K-C3" in some regions

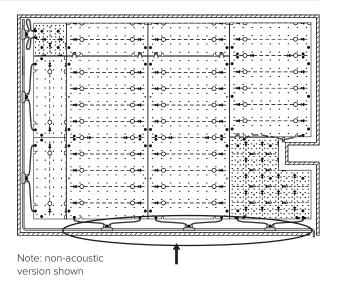
# **3 TILE INTERIOR T-CABLE**

**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**

TCBL	-	
PRODUCT TCBL = TILE Cable		TYPE SCT-T4 = Static CCT, T-Connectors (weight = 0.13lb/59g) SCT-T10 = Static CCT, T-Connectors (weight = 0.66lb/300g)

Example: TCBL-SCT-T4

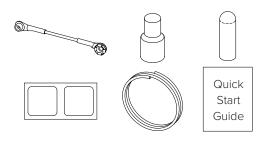


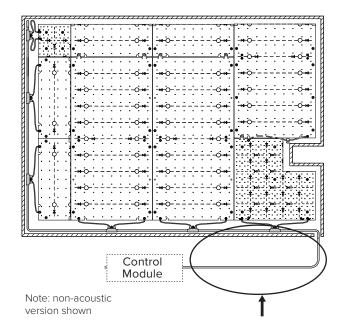
# 4 TILE INTERIOR STARTER KIT

**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. Insulation 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 (1.3mm<sup>2</sup>) Cable, 10 ft (3m) Length
- (1) Quick Strart Guide





### **HOW TO ORDER**

110W 10 OKDEK				Example: 1	ACC	-5C1-51R-K
TACC	-	SCT	-	STR	-	K
PRODUCT TACC = TILE Accessory		CCT SCT = Static Color Temp		TYPE STP = 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 (54V)**

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

Order Code	Description	# Controller Channels*	Integrated Wiring Enclosure
EPSS-092-54V-CE	92W Power Supply, 54V (CE Compliant) with integrated junction box	1	Yes
EPSS-200-54V-CE	200W Power Supply, 54V (CE Compliant) with integrated junction box	2	Yes
EPSS-400-54V-CE	400W Power Supply, 54V (CE Compliant) with integrated junction box	4	Yes

<sup>\*</sup>Class 2 (max 90W) output

### **COOLEDGE CONTROL MODULES (54V)**

**Purpose:** Receives 54VDC 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-DAL/010-48/58V	0-10V, DALI
CTR-SCT-DMX-48/58V	DMX
CTR-SCT-CAS-48/58V	Casambi (wireless)

### **ADDITIONAL ACCESSORIES**

#### **EXTENSION CABLES**

- 1.3mm<sup>2</sup> 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.

### **HOW TO ORDER**

TACC	-	
PRODUCT TACC = TILE Accessory		TYPE SCT-LNG-10 = Static CCT, Length = 3m (10ft) SCT-LNG-20 = Static CCT, Length = 6m (20ft)

