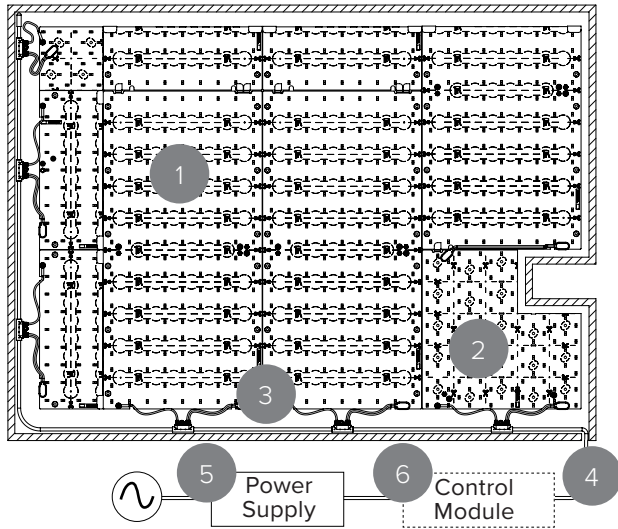




COOLEDGE TILE TUNABLE WHITE - SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	For Luminous Surfaces

SYSTEM OVERVIEW



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

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

*Included in TILE Tunable White Starter Kit

GENERAL

Location	Indoor, dry location only
Operating Temp.	0-40°C (32-104°F)
Storage Temp.	-40-85°C (-40-185°F)
Relative Humidity	90% max (non-condensing)
Operating Voltage	58 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

FEATURES

- Unique tunable white system design provides constant lumen output at all CCTs in the range 2700K-5700K and at all dimming levels
- Dim-to-warm option provides smooth dimming along the CCT curve to 0.05% from 3500K to 2200K
- Cooledge Control Module is 0-10V as standard; DMX, DALI and wireless (Casambi) versions include protocol converters
- Uniquely suited for installations requiring high CRI such as retail and hospitality
- Cut-to-fit means systems are adaptable to any size installation and can accommodate obstacles and shapes

SPECIFICATION

UL Listed lighting system inclusive of flexible light emitting sheets, connectors, low voltage cables, and power & controls. Light output from the system must be +/- 10% of 900/600/300/150 lumens/sq ft across the total illuminated area post-installation. The lighting system must have a Color Rendering index (CRI) >90 and provide constant lumen output for all CCTs between 2700K-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.

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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.

COOLEdge TILE TUNABLE WHITE - SPECIFICATIONS

PHOTOMETRICS¹

Light Output (lm/sqft)	900 ³ , 600, 300, 150
Correlated Color Temperature (CCT)	Tunable White = 2700K-5700K Dim-to-Warm = 3500K-2200K
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 Dim-to-Warm

IESNA TM-30-15 DATA

CCT	Rf	Rg
2200K	92	99
2700K	91	97
3500K	88	97
5700K	87	97
DTW*	91	100
TNW*	89	100

* Denotes both channels @50%

POWER

Light Output (lm/sqft)	CCT	Power (W/sqft)	EcoDesign Class
900	2700K	7.69	F
	3500K	N/A	
	5700K	6.82	
600	2700K	5.10	F
	3500K	4.61	
	5700K	4.50	
300	2700K	2.49	E
	3500K	2.29	
	5700K	2.26	
150	2700K	1.28	F
	3500K	1.19	
	5700K	1.19	



CERTIFICATIONS



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



Contact Cooleedge for ordering information for JA8 compliant models.

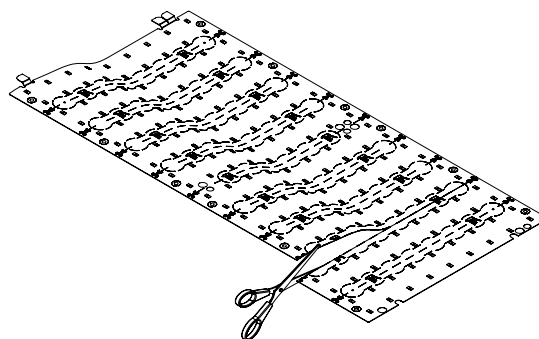
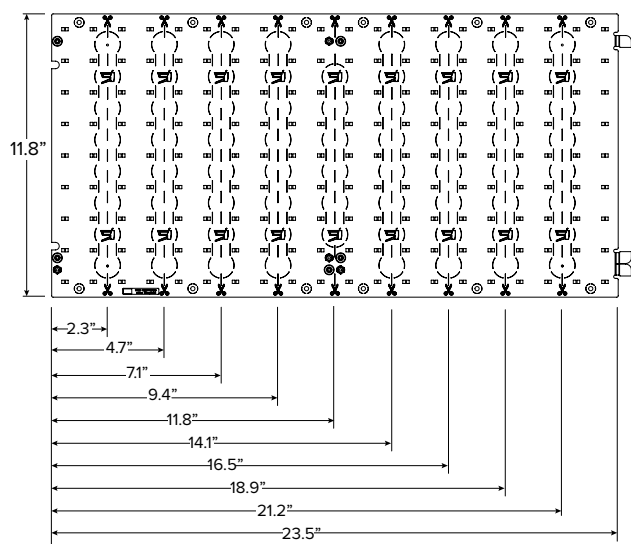


WARRANTY



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

1 TILE TUNABLE WHITE



Weight = 0.19lbs/ 86g

HOW TO ORDER

Example: TILE-TUN-600-TNW-R3

TILE	-	TUN	-	-	-	R3*		
<u>PRODUCT</u> TILE		<u>TYPE</u> TUN = Tunable White		<u>FLUX</u> 900** = 900lm/sqft 600 = 600lm/sqft 300 = 300lm/sqft 150 = 150lm/sqft		<u>CCT</u> TNW = 2700K-5700K DTW = 3500K-2200K		<u>Version</u> R3 = Revision 3

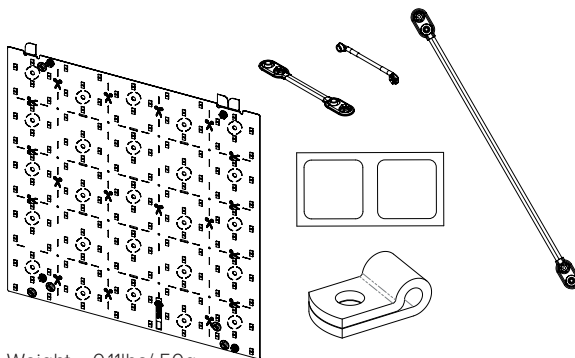
*May be identified as "C3" in some regions
**Not available in DTW

2 TILE TUNABLE WHITE CUT-OUT KIT

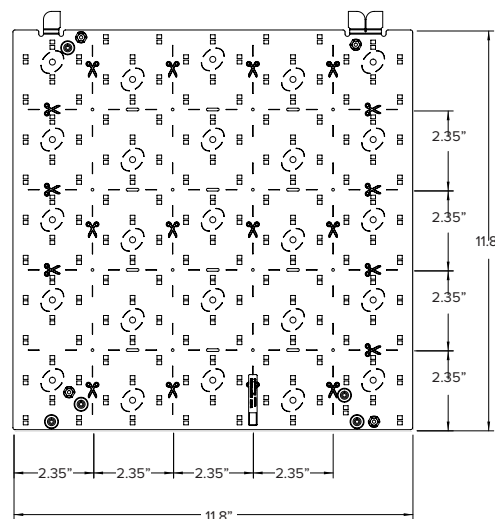
Purpose: Cut-to-fit around obstacles located in a luminous surface such as standoffs, support cables/rods, beams, pipes, etc.; used in corners where a full TILE does not fit in the space; or to step cut along angles and curves at the edge of a luminous surface. (Optional)

INCLUDED

- (1) Cut-out TILE (11.8"x 11.8")
- (2) Insulating Patches
- (1) Cable Clamp
- (1) Single-connector Jumper Cable
- (1) Double-connector Jumper Cable



Weight = 0.11lbs/ 50g



HOW TO ORDER

Example: TACC-TUN-CUT-600-TNW-K-R3

TACC	-	TUN	-	CUT	-	-	-	K-R3*	
<u>PRODUCT</u> TACC = TILE Accessory		<u>TYPE</u> TUN = Tunable White		<u>COMPONENT</u> CUT = Cut-out Kit		<u>FLUX</u> 900** = 900lm/sqft 600 = 600lm/sqft 300 = 300lm/sqft 150 = 150lm/sqft		<u>CCT</u> TNW = 2700K-5700K DTW = 3500K-2200K	<u>KIT</u> K = Kit Revision 3

*May be identified as "K-C3" in some regions
**Not available in DTW

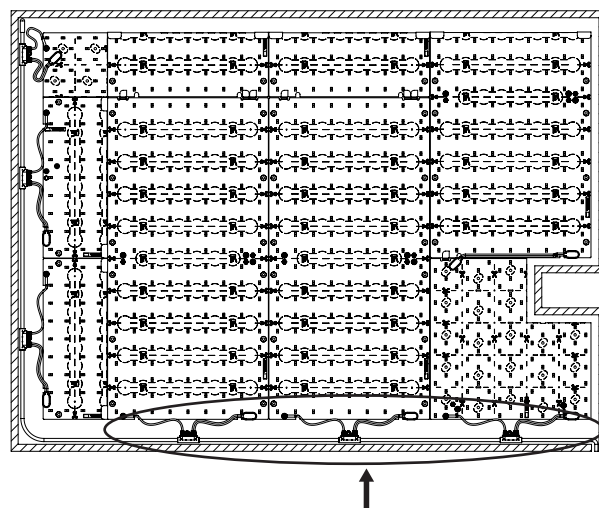
3 TILE TUNABLE WHITE T-CABLE

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 - TUN-T10

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

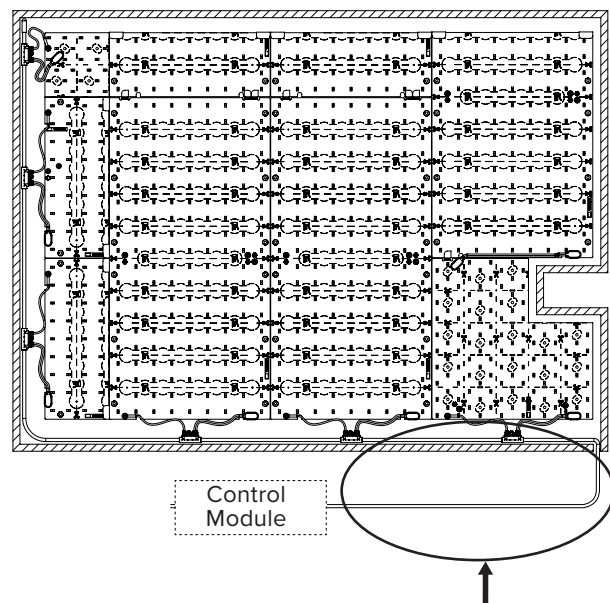
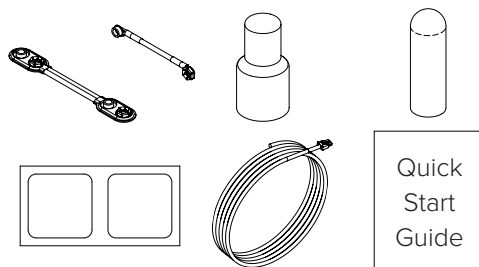


4 TILE TUNABLE WHITE STARTER KIT

Purpose: Includes the Starter Cable that makes the connection from the Control Module 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

- (2) Single-connector Cut TILE Reuse Jumper Cables
- (2) Double-connector Cut TILE Reuse Jumper Cables
- (2) Splice Connectors
- (4) End Caps
- (10) Insulating Patches
- (1) 10ft (3m) Starter Cable with Connector
- (1) Quick Start Guide



HOW TO ORDER

Example: TACC-TUN-STR-K

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

5 POWER AND CONTROL

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

- Power and Control Specifications (UL Listed)

The models shown below are those that are compatible with TILE Tunable White Systems for regions where cUL Listed products are required.

POWER SUPPLIES (58V)

Purpose: Convert AC main (line) power to safe, low voltage DC power. Coolege LED drivers are offered with range of dimming options. (Required)

Order Code	# Controller Channels *	Enclosure
EPSS-200-58V	2	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 0-10V to control dimming levels. Included converters translate dimming inputs to 1-10V.

Order Code	Function	Protocols
CTR-TUN-010-58V-CE	Tunable White	0-10V
CTR-TNW-010-58V-UL	Tunable White	0-10V
CTR-TNW-DMX-58V-UL	Tunable White	DMX
CTR-TNW-CAS-58V-UL	Tunable White	Casambi (Wireless)
CTR-DTW-010-58V-UL	Dim-to-Warm	0-10V
CTR-DTW-DMX-58V-UL	Dim-to-Warm	DMX
CTR-DTW-CAS-58V-UL	Dim-to-Warm	Casambi (Wireless)

ADDITIONAL ACCESSORIES

EXTENSION CABLES

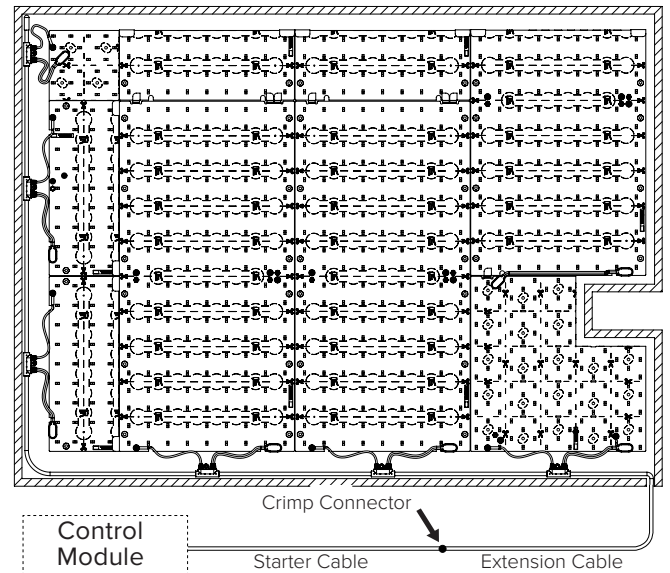
- 16 AWG cable (non-plenum rated)
- Available in 10' & 20' lengths

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

Example: TCBL - TUN - LNG - 10

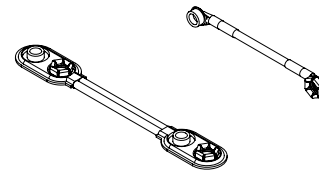
TCBL	-	TUN	-	LNG	-	
PRODUCT		TYPE				LENGTH
TCBL = Extention Cable		TUN = Tunable White				10 = 10ft (3m) 20 = 20ft (6m)



JUMPER CABLES

- 5 sets of double and single-connector jumper cables

Purpose: Allows a Tile to be cut in half and both portions connected in separate runs. Kit sufficient for 5 cut Tiles



HOW TO ORDER

Example: TACC - TUN - JMP - 5

TACC	-	TUN	-	JMP	-	5
PRODUCT		TYPE				
TACC = Jumper Cables		TUN = Tunable White				