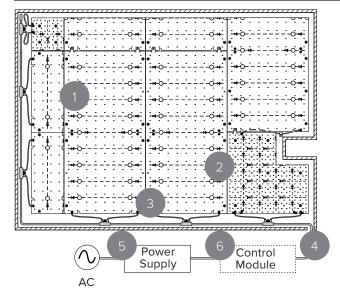


COOLEDGE TILE EXTERIOR TUNABLE WHITE R3 - SPECIFICATIONS

PROJECT	REFERENCE TYPE	
SPECIFIED BY	QUANTITY	
DATE	NOTE	For Luminous Surfaces

SYSTEM OVERVIEW



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	54 VDC			
Electrical Connections	Tool-less snap connectors			
Exposure	Not to be exposed to direct sunlight, rain or snow. Intended for installation behind diffuser materials.			

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

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

^{*}Included in TILE Exterior Tunable White Starter Kit

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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T +18444554448 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 EXTERIOR TUNABLE WHITE R3 - SPECIFICATIONS

PHOTOMETRICS¹

Light Output (Im/sqft)	900³, 600, 300
Correlated Color Temperature (CCT)	Tunable White = 2700K-5700K
Color Rendering Index (CRI)	≥ 90
Color Uniformity	3 SDCM (typical)
Lumen Maintenance ²	L80 = 50,000hr

¹ Photometric files available from cooledgelighting.com

POWER

Light Output (Im/sqft)	ССТ	Power (W/sqft)	EcoDesign Class
900	2700K	6.9	Е
900	5700K	6.2	С
600	2700K	4.6	E
600	5700K	4.2	Е
200	2700K	2.3	Г
300	5700K	2.0	Е
150	2700K	1.1	F
150	5700K	1.0	E



IESNA TM-30-18 DATA

ССТ	Rf	Rg
2700K	91	100
5700K	87	97
TNW*	89	100

^{*} Denotes both channels @50%

CERTIFICATIONS











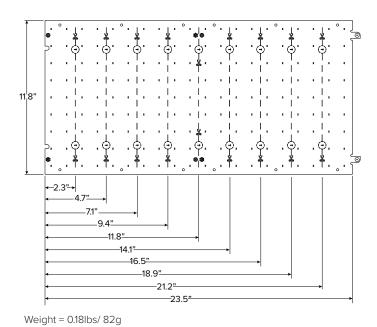
WARRANTY

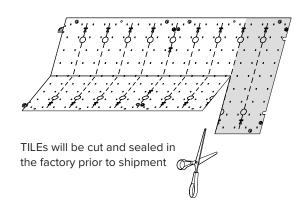


5 Year Limited Warranty: Parts and workmanship when used with a Cooledge approved power supply.

² Based on LM80 data & TM-21 calculations

1 TILE EXTERIOR TUNABLE WHITE





HOW TO ORDER					Exa	amp	le: TILE-E>	<Τ-(600-TNW-R3
	TILE	-	EXT	-		-		-	R3
	PRODUCT TILE		TYPE EXT = Exterior		FLUX 900 = 900lm/sqft 600 = 600lm/sqft 300 = 300lm/sqft		<u>CCT</u> TNW = 2700K- 5700K		<u>Version</u> R3 = Revision 3

TILE TUNABLE WHITE CUT-OUT KIT

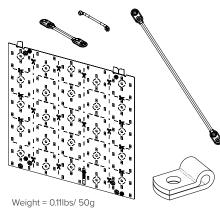
Purpose: Cut-to-fit around obstacles located in a luminous surface such as standoffs, support cables/rods, beams, pipes, etc.; used in corners where a full TILE does not fit in the space; or to step cut along angles and curves at the edge of a luminous surface. (Optional)

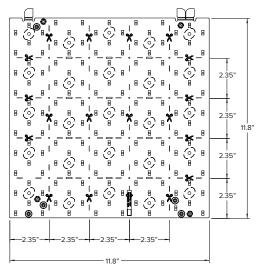
INCLUDED

- (1) Cut-out TILE (11.8"x 11.8")
- (1) Cable Clamp
- (1) Single-connector

Jumper Cable

- (1) Double-connector Jumper Cable





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

HOW TO ORDER

HOW TO	0	RDER						Example: TACC-EXT-CU	T-60	00-TNW-K-R3	
TACC	-	EXT	-	CUT	-		-		-	K-R3	
PRODUCT TACC = TILE Accessory		$\frac{\text{TYPE}}{\text{EXT}} = \text{Exterior}$		COMPONENT CUT = Cut-out Kit		FLUX 900* = 900lm/sqft 600 = 600lm/sqft 300 = 300lm/sqft		<u>CCT</u> TNW = 2700K-5700K		KIT K = Kit Revision 3	

*Not available in DTW

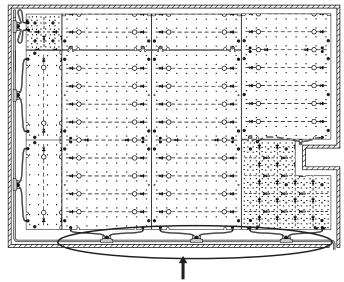
3 TILE TUNABLE WHITE T-CABLE

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)

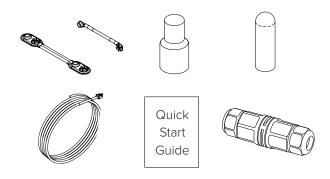


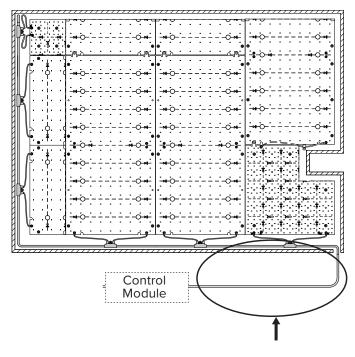
4 TILE EXTERIOR TUNABLE WHITE STARTER KIT

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.

INCLUDED

- (2) Single-connector Cut TILE Reuse Jumper Cables
- (2) Double-connector Cut TILE Reuse Jumper Cables
- (2) Splice Connectors
- (4) End Caps
- (1) 10ft (3m) Starter Cable with Connector
- (1) Quick Strart Guide
- (2) IP65 Splice Connectors





HOW TO ORDER

Example: TACC-EXT-TUN-STR

TACC	-	TUN	-	TUN	-	STR
PRODUCT TACC = TILE Accessory		$\frac{\text{TYPE}}{\text{EXT} = \text{Exterior}}$		$\frac{\text{TYPE}}{\text{TUN}} = \text{Tunable White}$		TYPE STR = Starter

COOLEDGE TILE EXTERIOR TUNABLE WHITE R3 - SPECIFICATIONS

5 POWER AND CONTROL

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

- Power and Control Specifications (UL Listed)

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

POWER SUPPLIES (54V)

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

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

*Class 2 (max 90W) output 3 wire connection to TILES

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 signal to control dimming levels.

Order Code	Function	Protocols
CTR-TNW-DAL/010-48/58V	Tunable White	0-10V, DALI
CTR-TNW-DMX-48/58V	Tunable White	DMX
CTR-TNW-CAS-48/58V	Tunable White	Casambi (Wireless)
CTR-DTW-DAL/010-48/58V	Dim-to-Warm	0-10V, DALI
CTR-DTW-DMX-48/58V	Dim-to-Warm	DMX
CTR-DTW-CAS-48/58V	Dim-to-Warm	Casambi (Wireless)

For exterior applications, Cooledge Control Modules must be mounted within an appropriate IP65 or higher UL listed enclosure. The minimum recommended size for the enclosure is 15.6° L x 6.5° W x 3.6° H. Please contact Cooledge Lighting for recommendations.

ADDITIONAL ACCESSORIES

EXTENSION CABLES

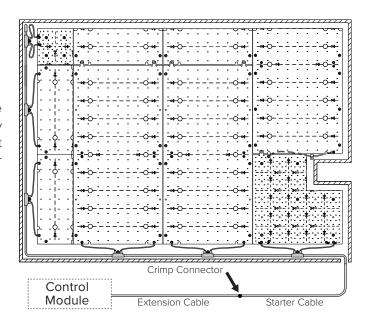
- 16 AWG cable (non-plenum rated)
- Available in 10' & 20' lengths

Purpose: Cable between TILE Starter Cable and 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	
	10

TCBL	-	TUN	-	LNG	-	
PRODUCT TCBL = Extention Cable		TYPE TUN = Tunable White				<u>LENGTH</u> 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



Example: TACC - TUN - JMP - 5

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

