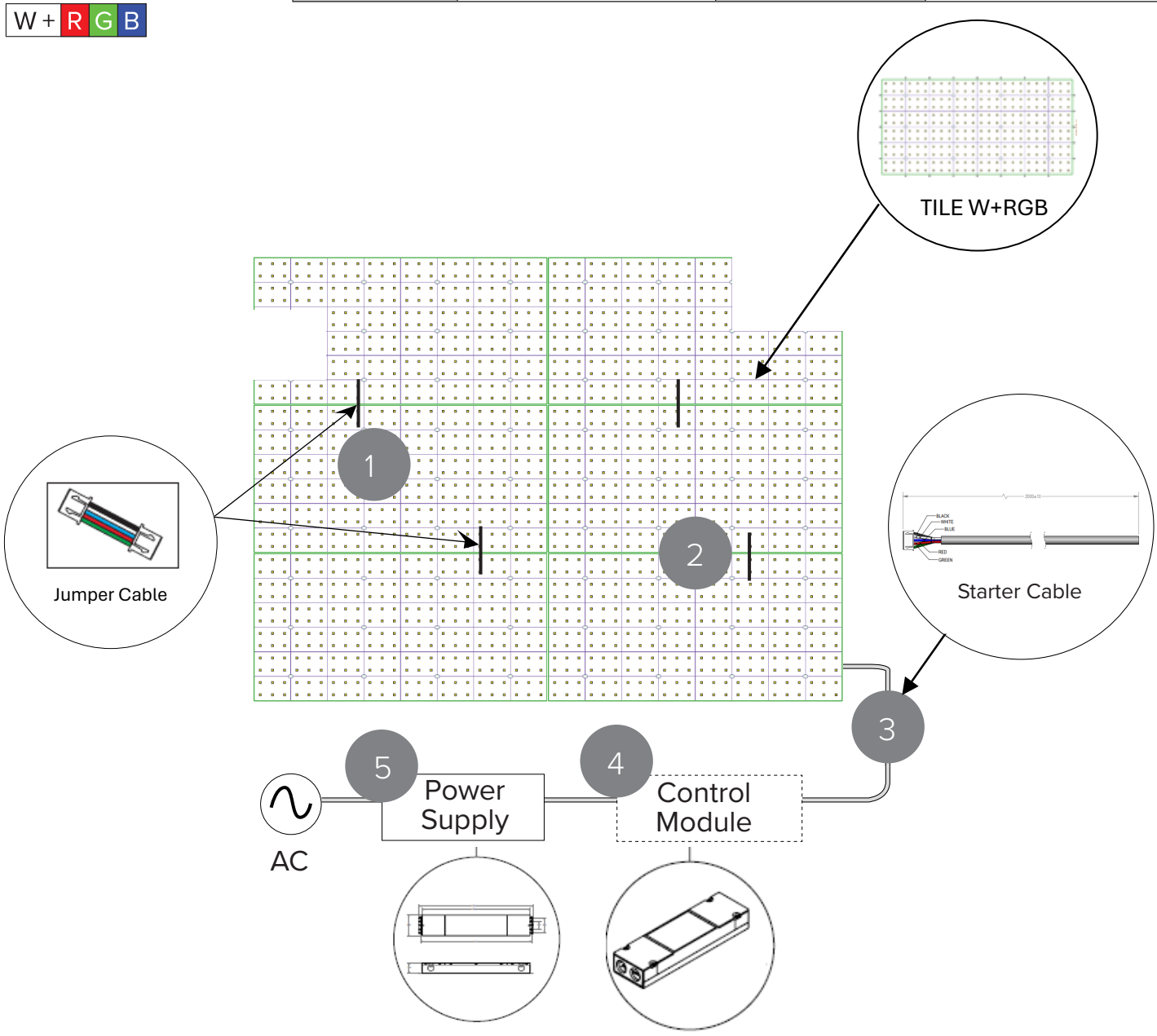
COOLEDGE™

W + R G B

COOLEDGE TILE W+RGB - INSTALLATION MANUAL

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	



Caution: Observe precautions for handling electrostatic sensitive devices.

CE

c UL us LISTED

RoHS

5 YEAR SYSTEM WARRANTY 5 YEAR SYSTEM WARRANTY

5 Year Limited Warranty:
Parts and workmanship

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1.0 IMPORTANT INSTALLATION NOTES

Please read instructions prior to installation

Installation must be completed by a qualified electrician in accordance with all national and local electrical and construction codes.

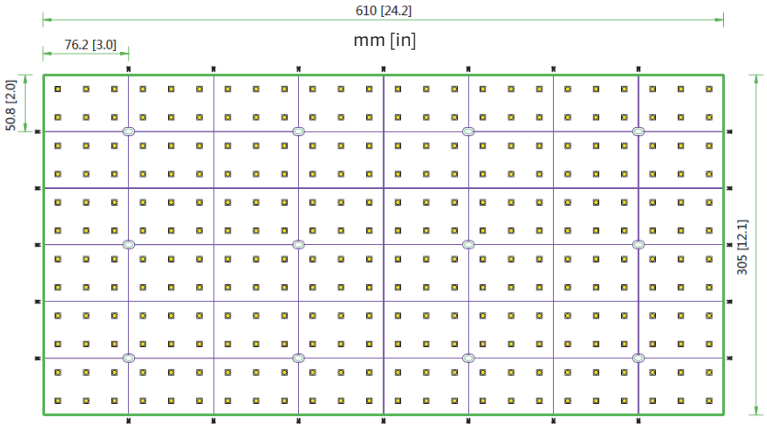
- Ensure power is off prior to installation.
- TILE products are dry location rated only.
- Mounting surface must be non-conductive (eg. drywall, phywood, etc)
- TILE products must be powered by a Cooledge approved constant voltage Class 2 or LPS LED Driver.
- Using a non-approved power source could damage the system and will void the warranty.

⚠ DO NOT DISCARD the contents of the Installation Kit. All components will be needed to perform the installation.

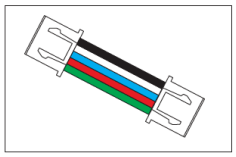
2.0 SYSTEM CONTENTS

A. TILE W+RGB	Light emitting sheets with white, red, green, and blue LEDs
B. Jumper Cable	5-conductors with connector at two (2) ends (2.6”/65mm)
C. Starter Cable	5-conductor cable with connector at one (1) end (79”/2.0m)
D. Control Module	Converts incoming control signals (DMX or Casambi wireless) to dim or set color of the TILEs. The Control Module has one input connection from the power supply and enables up to 90W of power per channel (W/R/G/B)
E. Power Supply	Converts incoming AC power to 24 VDC output to the Control Module

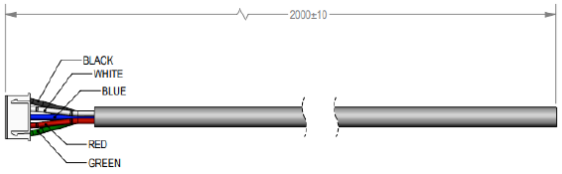
A. TILE W+RGB



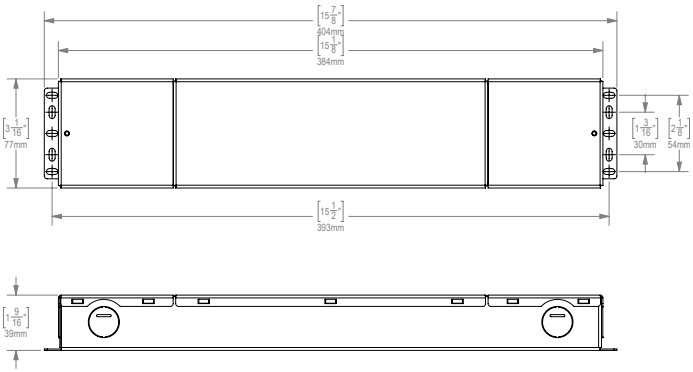
B. Jumper Cable



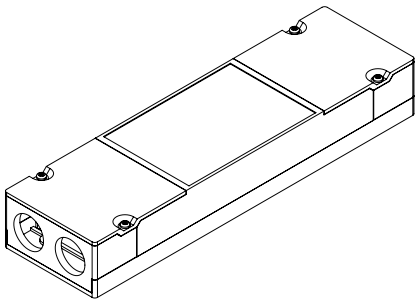
C. Starter Cable



E. Power Supply



D. Control Module



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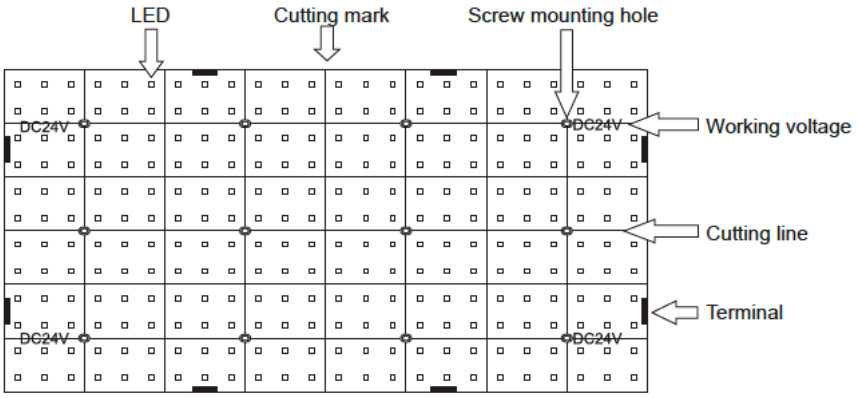
Light as a building material

3.0 EQUIPMENT

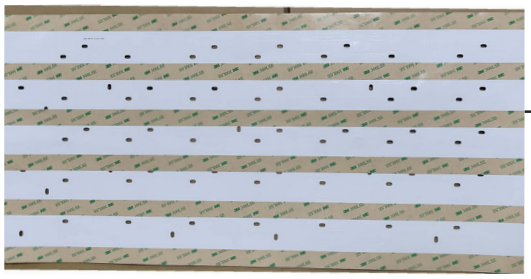
Self-tapping screw | Insulation Tape | Electric drill

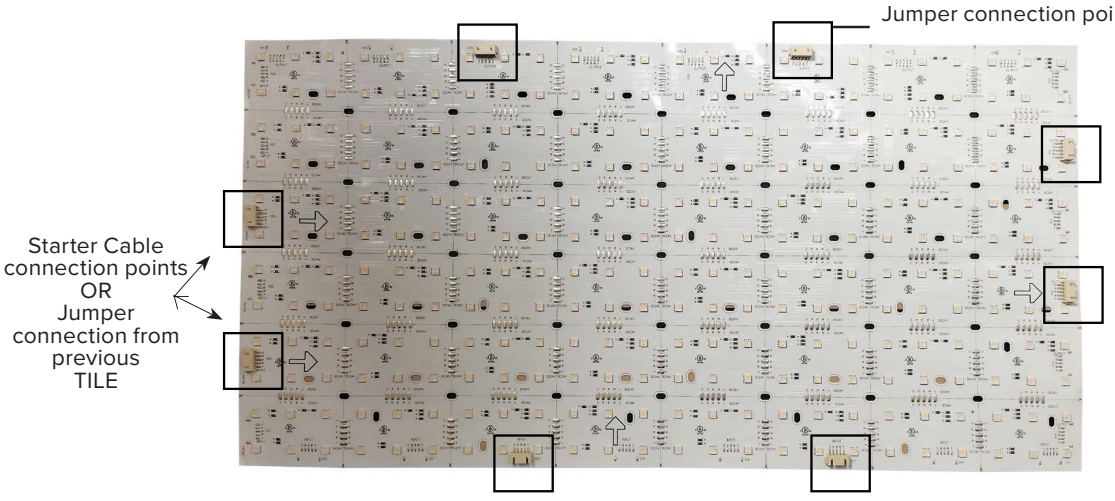
4.0 INTRODUCTION TO TILE W+RGB

Front View



Back View





5.0 CARE & HANDLING GUIDELINES

Always handle TILEs along the outer edges of the sheet.

Avoid handling, scraping, rubbing or wiping the front surface of the sheet. Although the LEDs and drive components are bonded strongly to the base material, it is possible to remove them or damage the electrical connection if not handled with care.

Avoid penetrating the sheet at any location other than along the cut lines or in the marked knockout holes.

As with all electronics, light sheets are susceptible to damage from Electrostatic Discharge (ESD). Where possible avoid situations that are conducive to creating static.

Avoid creasing or repeated flexing of TILE as this may cause separation in the traces of the electrical circuits located on the surface of the sheets.

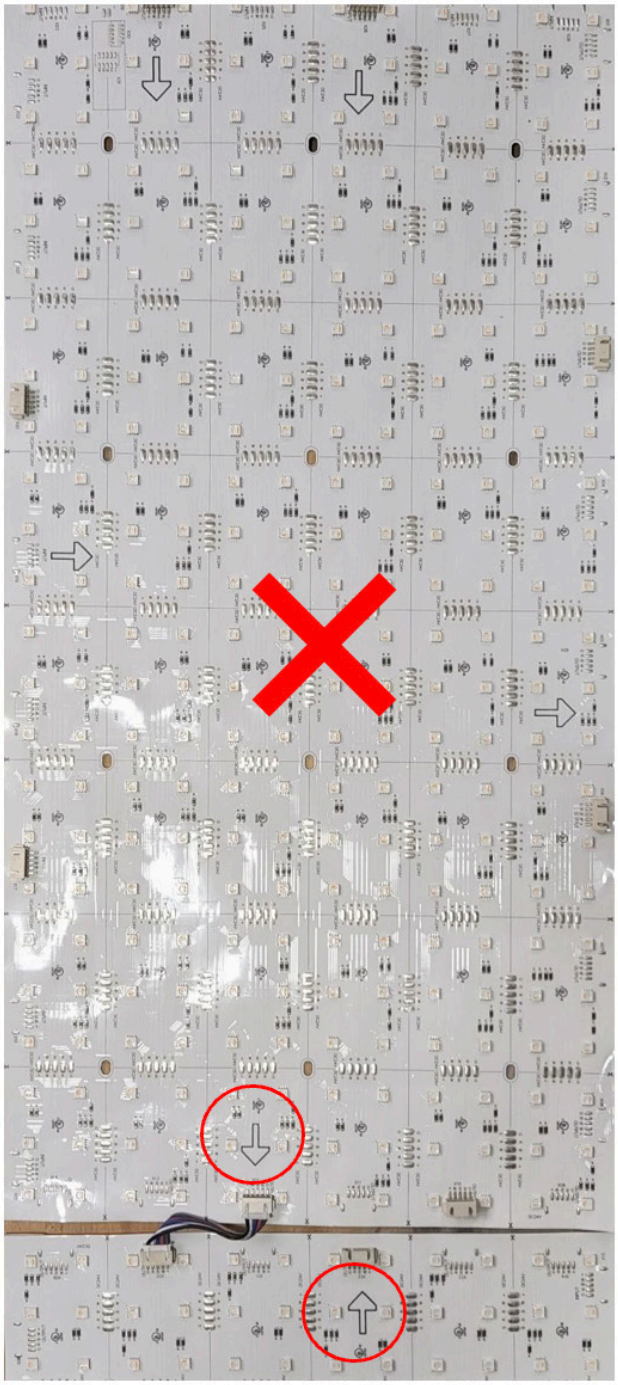
6.0 SYSTEM LAYOUT – GENERAL INFORMATION

Always refer to the layout drawing provided for your project.

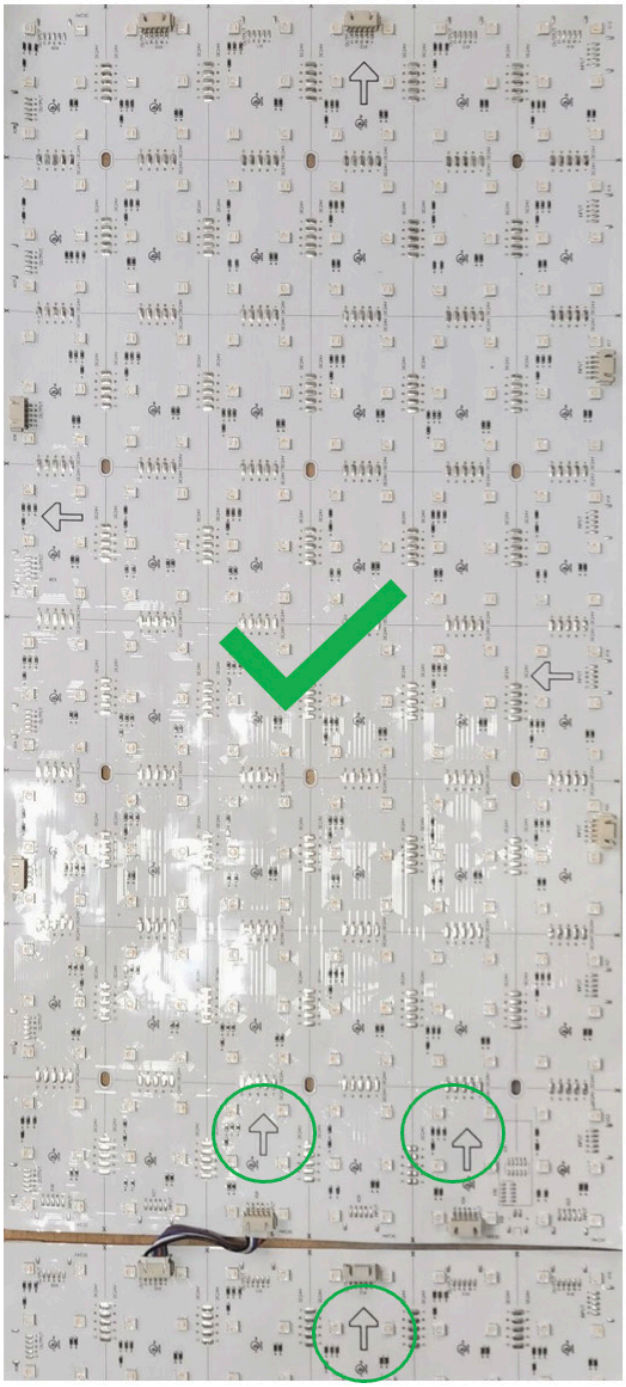
- Each TILE is supplied with adhesive tape on the back. This tape is not intended to be the primary mounting method and should be used only to secure the TILEs in place until the primary mounting screws are installed. Note that once the TILE has been adhered to the mounting surface with the tape, attempting to remove the TILE may cause permanent damage.
- Each Control Module may be connected to up to six (6) TILEs and supplies 4 channels (W/R/G/B).
- TILEs may be connected to other TILEs in either the lengthwise direction or on either side using the jumper cables provided – use only one jumper per sheet connection.'
- Starter cables must be connected to the input connector on any TILE in a circuit (max. 6 sheets). Input connectors are those with the arrows pointing inward toward the center of the sheet.
- Each Control Module requires a 400W Power Supply.
- Each TILE is exactly 1ft x 2ft (305mm x 610mm) and should be patterned exactly by 1ft and 2ft (305 x 610) increments.
- The LED space is equal between sheets when the sheets are touching each other.

6.1 SYSTEM LAYOUT – SHEET ORIENTATION

TILEs must be mounted with the lengthwise arrows pointing in the same direction. These arrows indicate the input power for each TILE sheet. If not aligned correctly, the sheets will not operate.



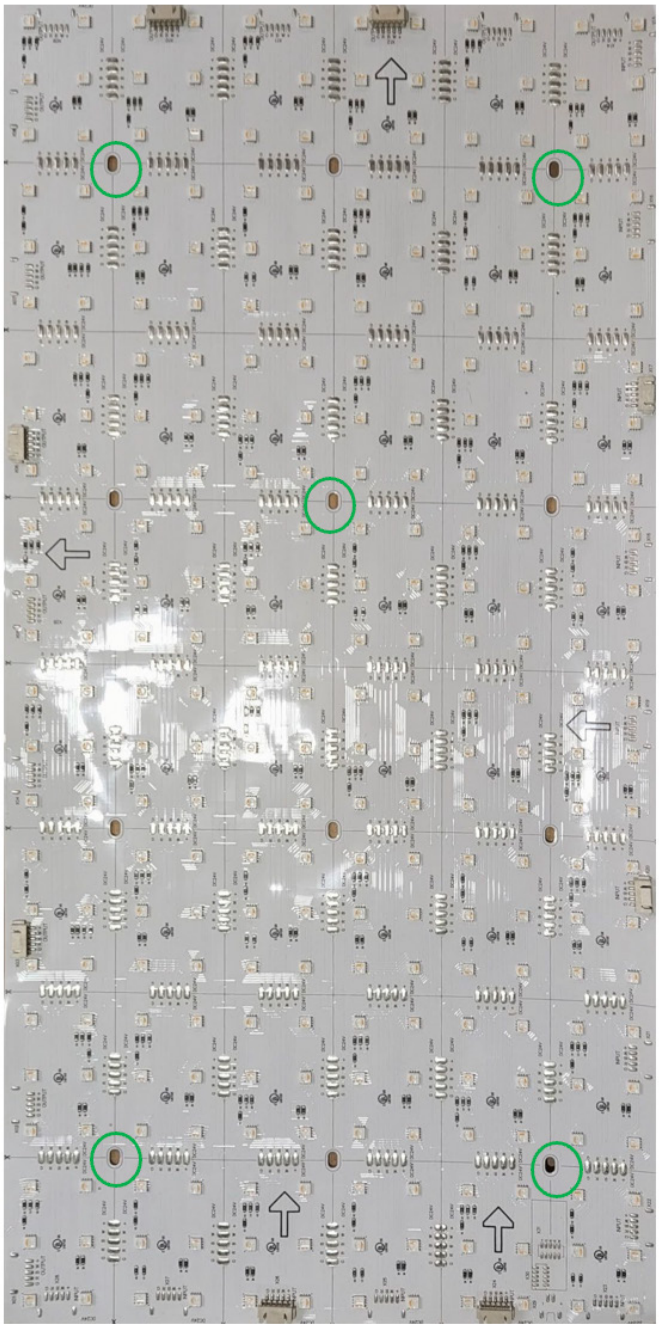
Arrows are in opposite directions



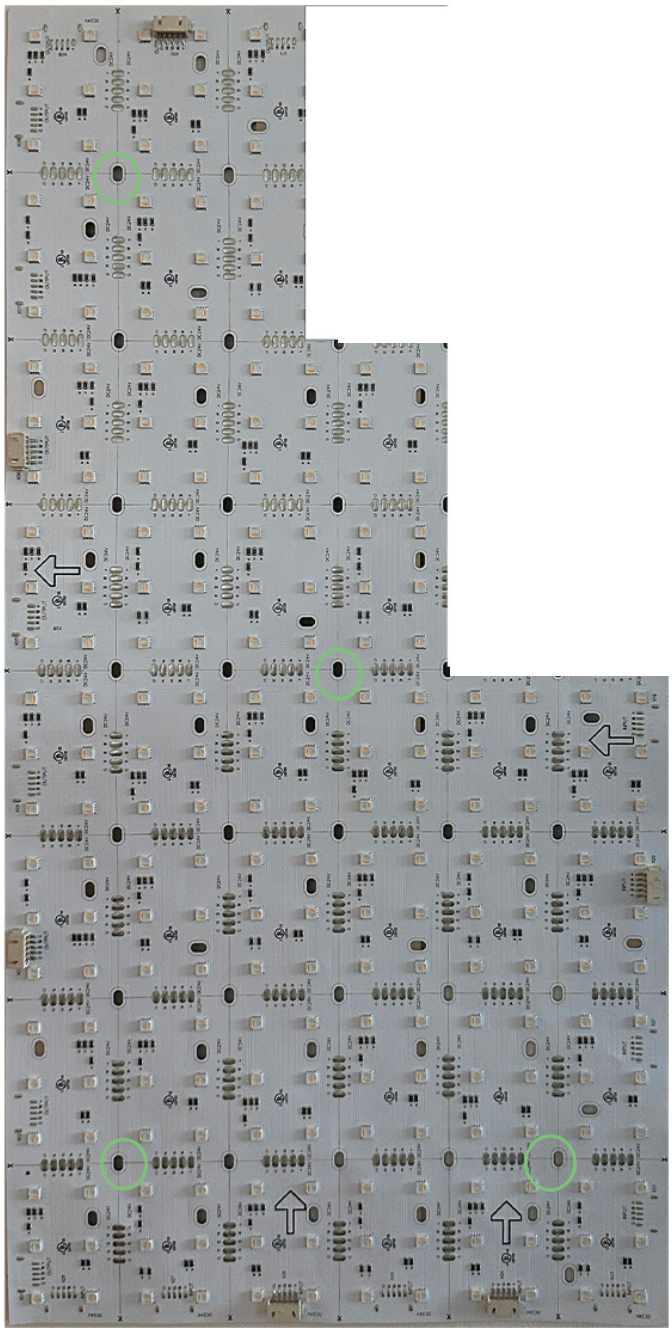
Arrows are aligned

7.0 INSTALLATION

- Once the TILEs have been correctly positioned and secured in place with the double-sided tape, the primary mounting is done with five (5) #6, 3/16 long screws on each sheet: 4 screws near the corners and one in the center. Use plastic washers to avoid shorting the sheets.

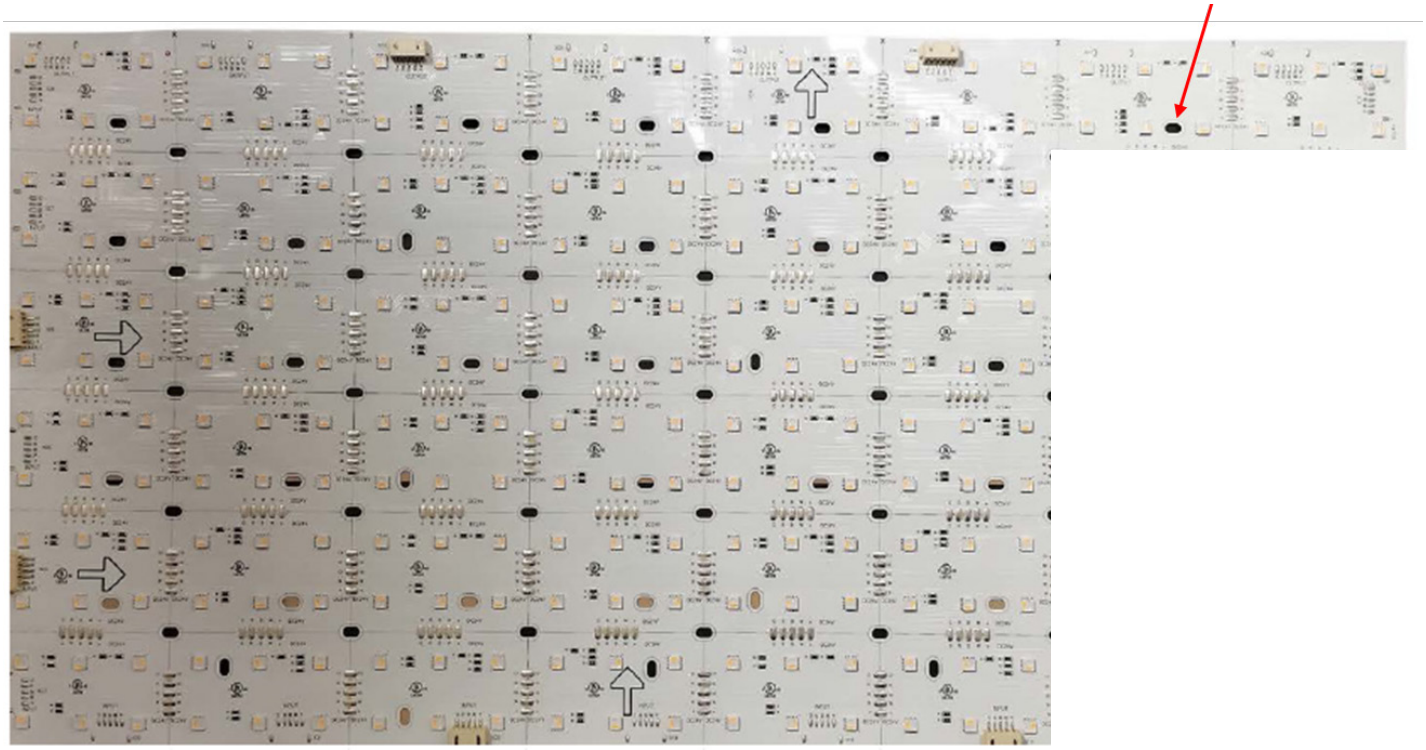


Recommended screw location for full sheet.



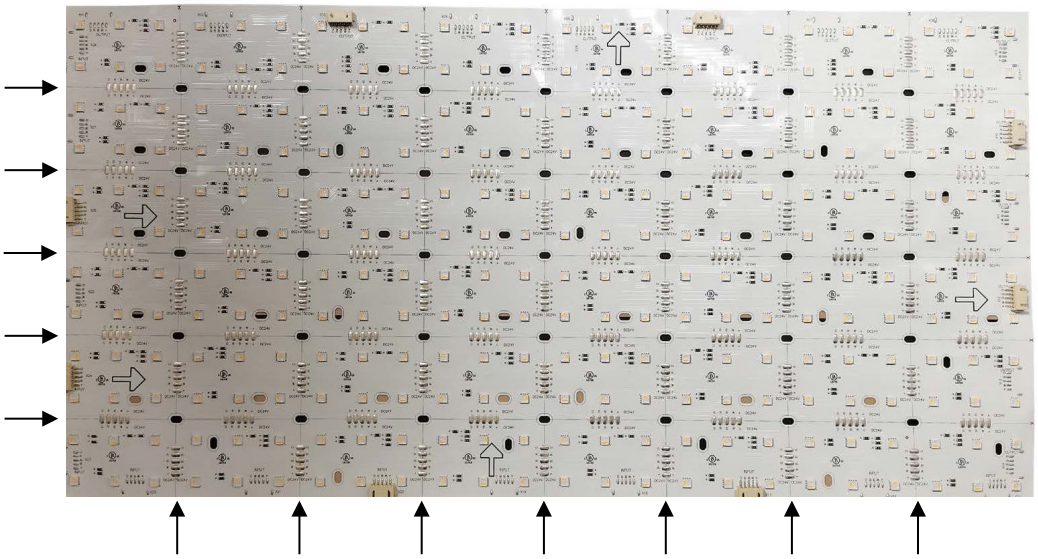
Example screw location for sheet that has been cut

- Unsupported blocks at any corner should be less than 2, use the mounting holes inside block as needed.



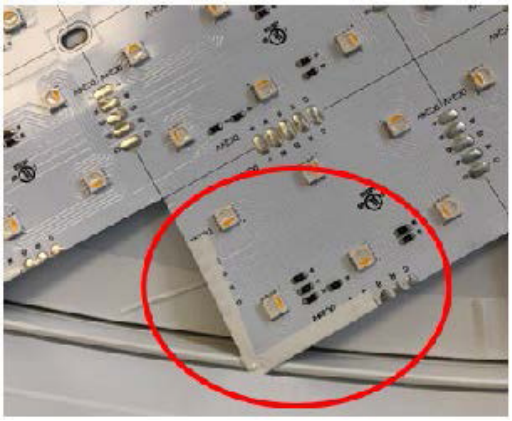
7.1 CUTTING TILES

The TILEs may be cut in two directions along the lines shown on front side of each sheet. Cut lines are identified by a scissors symbol along each edge of the sheet.



Cut Lines

Where cuts have been made, insulation tape should be applied to the remaining cut edges to avoid shorting when install.



Insulation Tape on Cut Edges

8.0 POWER & CONTROLS

For details regarding the installation, commissioning, and operation of the Power Supplies and Control Modules, please refer to the following documents available at cooledgelighting.com:

24V DMX
24V Casambi

9.0 PRODUCT SUPPORT

Contact Cooledge Technical Support at:

E: apps.engineering@cooledgelighting.com
O: +1.781.899.0317
T: 1.844.455.4448 (toll free – North America)

10.0 WARRANTY

Cooledge warrants that the products manufactured, distributed or sold by it will:

1.	Be free of any claim of ownership by third parties.
2.	Be conforming to the Specifications and free from defects in materials and workmanship under normal use, handling, warehousing and service.

The warranty period specified in the Cooledge Warranty Terms and Conditions for the products will be for a period of five (5) years from the shipment date of any products sold by Cooledge.