

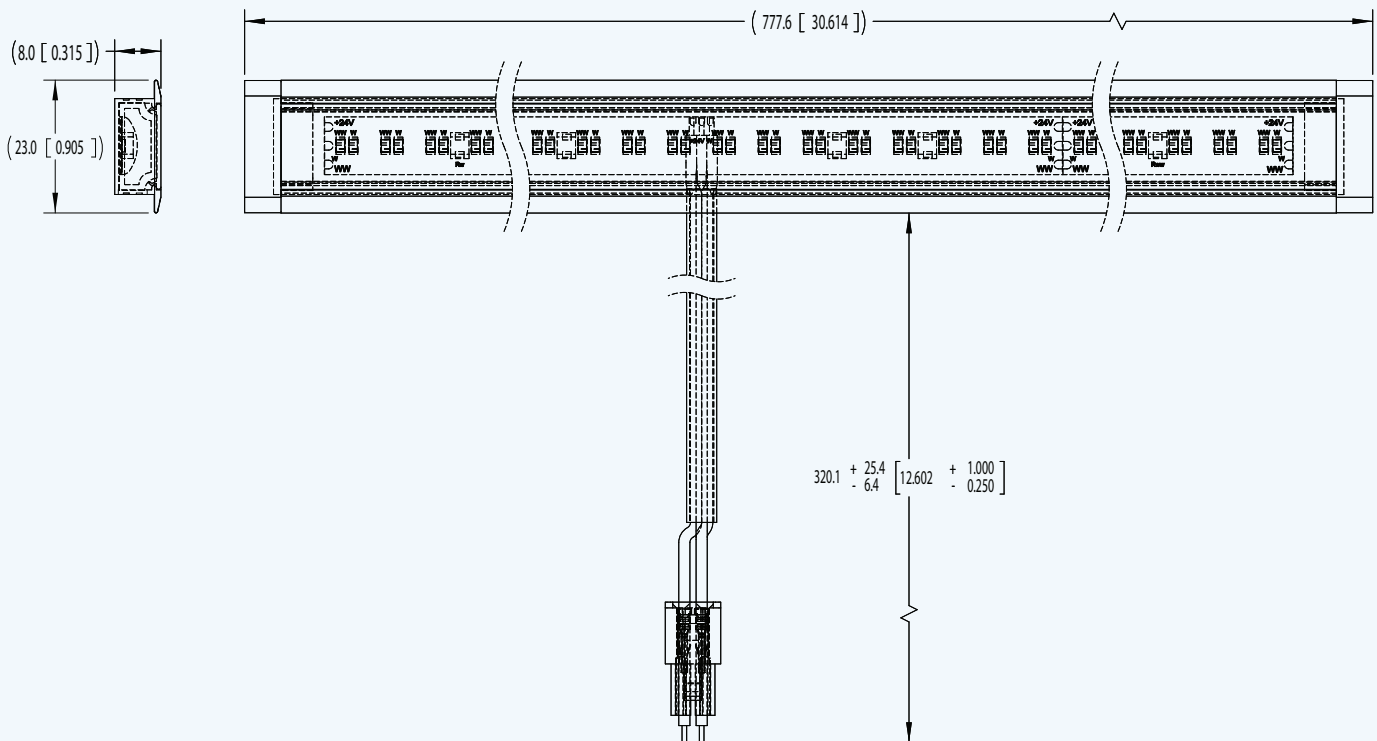
# Tunable Stair Lighting

- Custom step setups available
- Available in a tunable warm white to white (3000k - 6300k)
- UL approved
- Wireless wall mounted control

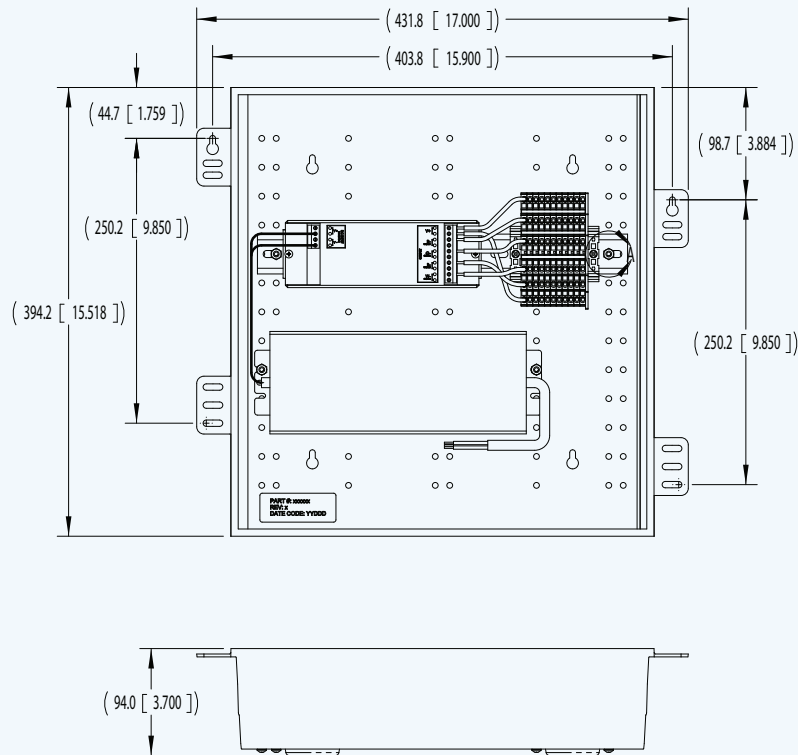


## DIMENSIONS

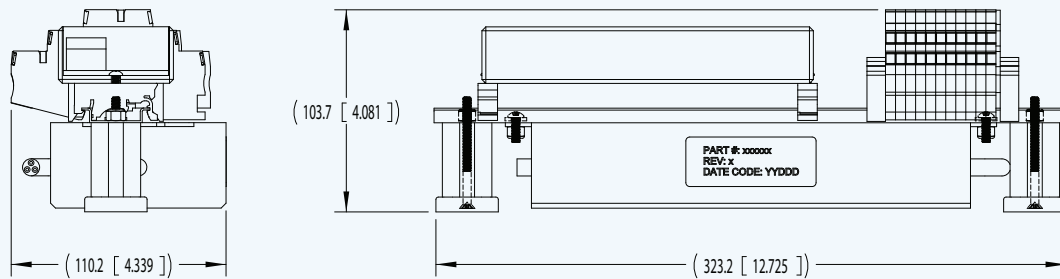
### 481087 - LIGHT STRIP FT ASSY



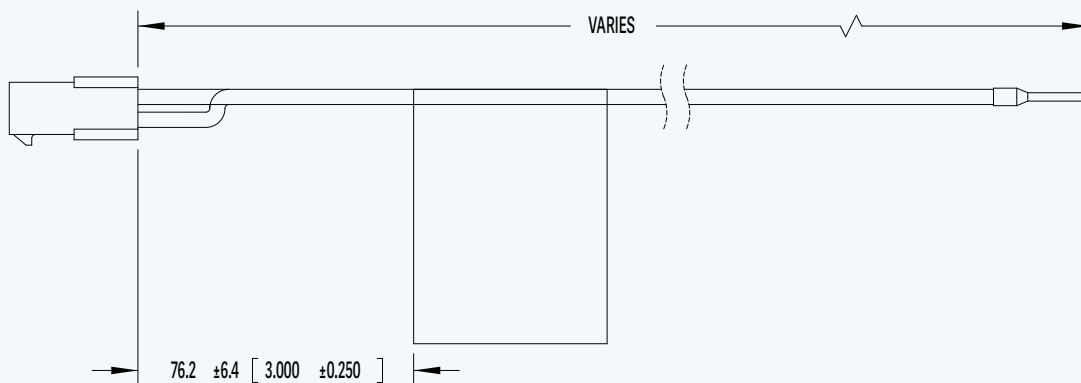
**470179 - CONTROLLER TUNABLE BOX MOUNT POWER SUPPLY RECEIVER**



**470180 - CONTROLLER TUNABLE MAGNETIC MOUNT POWER SUPPLY RECEIVER**



020258



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## SPECIFICATIONS

### SYSTEM

The system provides illumination of stair treads that can be dimmed and adjusted over the white color temperature spectrum with one or more wall mounted remotes. The system consists of one light for each tread, a controller assembly, a set of home run cables to connect each light back to the controller, and one or more wall mount remotes.

### LIGHT STRIP ASSY - 160/M IP65 27.56" 2216 12" w/ MOLEX

Designed to be mounted under each stair tread and illuminate the next lower tread. Lights intended to be flush mount via a routed-out slot in the bottom of the tread. Each light connects to the Controller Assembly with an individual home run cable.

PART NUMBER	VOLTAGE (VDC)	CURRENT (mA)	WATTAGE (W MAX)	CCT (K)	LUMINOUS FLUX (LM)	OPERATING TEMPERATURE (°C)
481087	22 - 26	400 - 490	13.7	5900 - 6300 / 3000 - 3150	240 - 420 / 220 - 420	-20 - 45 °C

### CONTROLLER - TUNABLE MAGNETIC OR BOX MOUNT POWER SUPPLY RECIEVER

The Controller Assemblies include the power supply, light driver, and terminal block. The terminal block allows easy connection of the individual Home Run Cables. The Controller can be purchased to operate up to 10 lights or up to 20 lights. The Controller can also be purchased in two form factors. The first is a magnetic mount designed to be inserted into the stair spline. The second is in an enclosure that can be flush mounted, or surface mounted on a wall.

### MAGNETIC MOUNT

PART NUMBER	WATTAGE	INPUT POWER	OPERATING TEMPERATURE
470174 10 LIGHT KIT	2.66 A max / 240 W	90 - 305 VAC, 46 - 63 Hz	-20 - 45 °C
470180 20 LIGHT KIT	3.56 A max / 320 W		

### BOX MOUNT

PART NUMBER	WATTAGE	INPUT POWER	OPERATING TEMPERATURE
470181 10 LIGHT KIT	2.66 A max / 240 W	90 - 305 VAC, 46 - 63 Hz	-20 - 45 °C
470179 20 LIGHT KIT	3.56 A max / 320 W		

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**HOME RUN CABLES - 22/3 AWG STRANDED UL 1007 R/B/W w/ FERRULE & MOLEX SGL PK**

The Home Run Cables connect each Light back to the terminal block in the Controller Assembly. They are intended to be routed in the center stair spline. Connections to the light is made with a small connector, Connection to the terminal block is made easy with the ferrules applied to that end. The home run cables are available in the following four kits.

- **3 Conductor**
- **22 AWG**
- **105°C Rate Wire**

PART NUMBER	END MOUNT
<b>490053</b> 10 LIGHT KIT	<b>60" - 168" in 12" increments</b>
<b>490055</b> 20 LIGHT KIT	<b>48" - 276" in 12" increments</b>

PART NUMBER	CENTER MOUNT (two each)
<b>490048</b> 10 LIGHT KIT	<b>60" - 108" in 12" increments</b>
<b>490054</b> 20 LIGHT KIT	<b>60" - 168" in 12" increments</b>

**WALL REMOTE - RF WALL MOUNT DUAL CCT COLOR 1P20 2 CHANNEL**

The Wall Remote controls the dimming and color changing function of the lights. They are wireless and intended to be mounted in a standard single bay plastic electrical box. It is a replacement for the standard light switch. Multiple - remotes can be paired to a single Controller and multiple controllers can be slaved to work from the same remotes.

PART NUMBER	MOUNTING	POWER	OPERATING TEMPERATURE
<b>480644</b>	<b>Plastic Electrical Box</b>	<b>One CR2032 3V battery, supplied</b>	<b>0 - 40 °C</b>

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# INSTALLATION INSTRUCTIONS FOR STAIR LIGHT CONTROLLER

## PREPARATION

You will need the following items prior to starting the installation process:

- Drill/Driver
- Appropriate screws for mounting method
- Screwdriver

## FASTENING: Keep the following in mind:

- Disclaimer: Drill/cut any holes at your own risk.
- Verify the location for the controller box to be installed. It is suggested that intended mounting locations are measured prior to installation to ensure proper fitment.
- Verify that there is a clear path for the power wires to be routed from the assembly to the power source.

## STEPS

### Box Mounted Controller Assembly

1. Determine where the controller assembly will be mounted. It will need to be close to where the home run cables will enter the stair spline. The box can be mounted in the wall between 16 center studs or surface mounted on a wall. The box will need a line voltage power feed and a conduit or other raceway between it and the stair spline.
2. If installing in the wall before the plaster board is installed (new construction), locate the box between two studs at a reasonable distance above the floor. With the cover removed, attach each of the four mounting tabs to the stud face with a #8 drywall screw. Consider if a paint shield is necessary when the wall is being finished with the cover removed.
3. If installing in an existing wall (retrofit installation), remove the four mounting tabs. Cut the necessary hole in the wall after checking for proper clearance. Route and connect flexible wiring as necessary for the input power and conduit to the stair spline using the knockouts on the box. Both connections will need to be on the same end of the box to allow it to hook into the wall. Hook the box into the cut-out hole and attach to the side studs using the pilot holes located in the sides of the box inside of the optional hinge mounts. There are two screw locations on each side making four total. If surface mounting, the four mounting tabs can be removed. Locate the box on the wall and attach using the four mounting locations on the back of the box. Use appropriate fasteners for the type of wall material.
4. Fish the home run cables for the installed lights through the conduit or other raceway into the box.
5. Route power to the box per local electrical codes.
6. Proceed to the Remote-Control Panel Mounting section of these instructions.

### DISCONNECT POWER SOURCE (BATTERY) BEFORE STARTING ELECTRICAL WORK.

Recommended methods for splicing wires together (parts not included in Vista product kits):

- Solder and cover bare wires with heat shrink or electrical tape.
- Insulation-displacement connector (IDC) / insulation-piercing contact (IPC).
- Twist on wire connector, "wire nut".
- Crimp connector, "Butt splice".

### Magnetic Mounted Controller Assembly

1. Remove the access cover for the stair spline.
2. In most applications, it will be beneficial to install the lights with their home run cables before placing the controller assembly.
3. Place the controller assembly in the stair spline, allowing access to the terminal block and ensuring that both magnets are fully secured to the inside surface of the spline.
4. Proceed to the Remote-Control Panel Mounting section of these instructions.

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## STEPS (CONTINUED)

### Remote-Control Panel Mounting

1. The Remote-Control Panel is intended to be mounted in a standard electrical box like a typical light switch. No wires are connected to the controller. It should not be installed in the gang box with other high voltage electrical devices. The use of a plastic electrical box is recommended to prevent range issues of the RF signals between the Remote-Control Panel and the Controller Assembly. In most applications, it will be beneficial to install the lights with their home run cables before placing the controller assembly.
2. Pull off the Remote-Control Panel's knob and pry off the front cover.
3. Remove the insulating tab off the battery accessed from the front of the Remote-Control Panel to allow the battery to make contact, before installing it in the electrical box.
4. Mount the main portion of the Remote-Control Panel to the electrical box with a screw in the top and bottom. Align the panel vertically with in the slotted mounting holes before tightening the mounting screws.
5. Replace the front cover and knob.
6. Perform the wiring procedure as document in the Remote-Control Panel instructions.

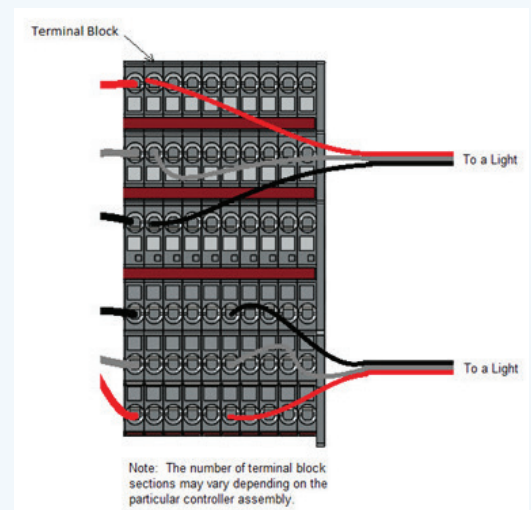
### WIRING:

Route wire as necessary for the application. Do not pinch or puncture wires with fasteners. Do not route wires around sharp edges. A wire loom should be used for protection if wires are to be routed through areas where they may encounter sharp edges, in an application that would experience high amounts of vibration, in areas that may have fasteners protruding into them during later assembly, or other extreme conditions. Standard wiring outputs can be seen below.

Vista Standard RGB Lighting Wire Colors - Due to product variation, the wire colors for some Vista RGB lights may vary depending on the product. Refer to the following wire polarity information to Vista RGB Lighting.

### Home Run Cables to Terminal Block:

1. Each light has a dedicated home run cable that will be connected to the terminal block.
2. Each home run cable is intended to be connected to a set of three terminals on the same terminal section (column) and on the same end of a terminal row (top or bottom three terminals). Remove the insulating tab off the battery accessed from the front of the Remote-Control Panel to allow the battery to make contact, before installing it in the electrical box.
3. Connect each of the three conductors of the home run cable to a terminal block row that corresponds to the a row same color controller to terminal block wire. Replace the front cover and knob.
4. Any light can be connected to any set of terminals; however, the installer is encouraged to select an orderly method of connecting the lights to help in any future debugging that may be required.



### Home Run Cables to Terminal Block:

1. Power connections need to be made per the applicable electrical codes and by qualified personnel.
2. Turn off power to the circuit before making the power connections.
3. Route power wiring to the controller location.
4. Connections can be made in approved housings using wire nuts, or push-in connectors. For installations not using housing approved for high voltage connections, consider using an approved Romex splice.
5. Power is connected to the Power Supply input cable per the following color codes.

Power Supply Input Wire Color	Wire Function	Typical Supply Wire Color
BROWN	Line Side	BLACK
BLUE	Neutral Side	WHITE
GREEN/YELLOW	Functional Earth Ground	Bare Conductor

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# INSTALLATION INSTRUCTIONS FOR ACADIA STAIR LIGHT

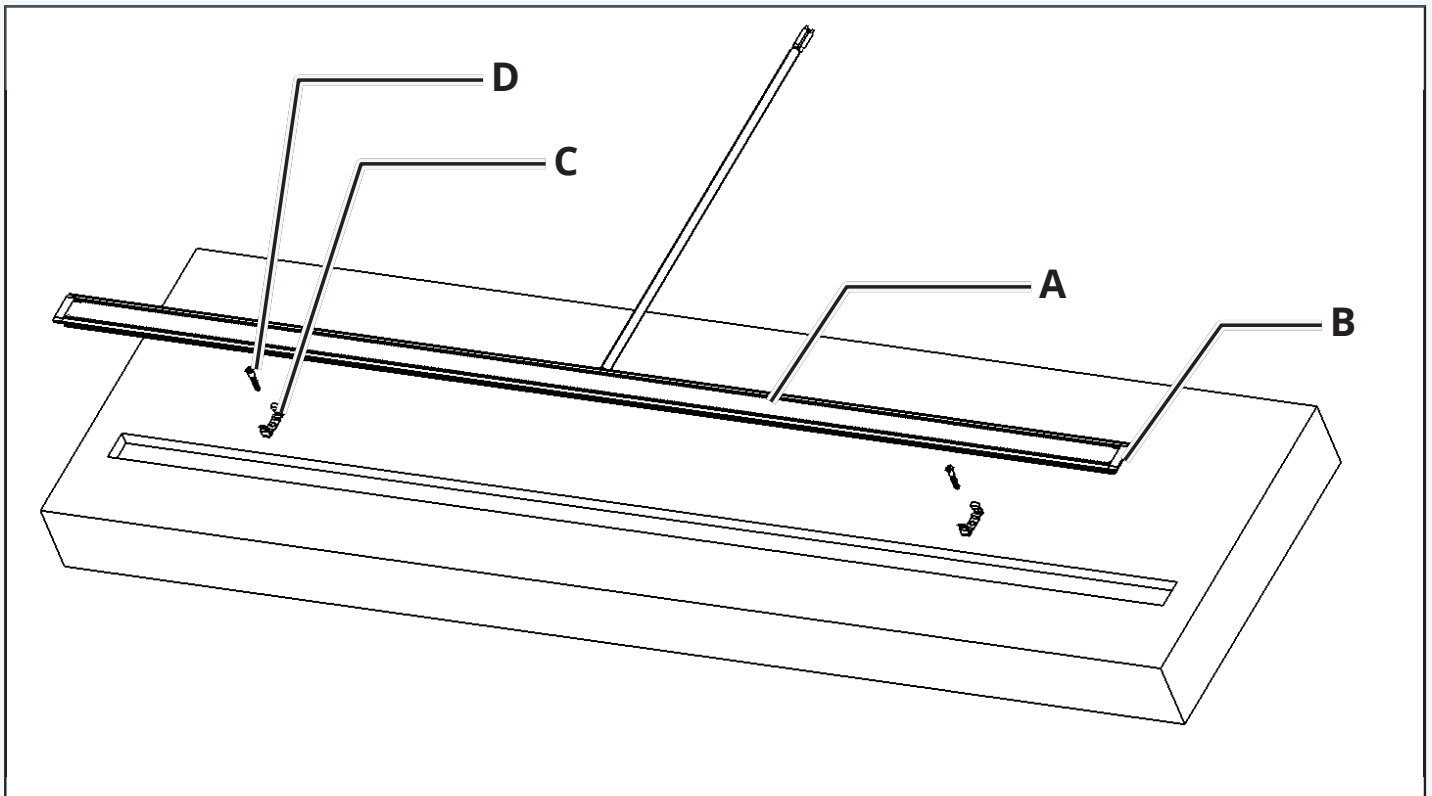
## PREPARATION

You will need the following items prior to starting the installation process:

- Philips head screwdriver
- Plunge router (if flush-mounting)
- 3/8" router bit (if flush-mounting)
- 3/4" drill bit (if flush-mounting, measure tread to determine length of bit required)
- Drill/Driver

## PARTS SUPPLIED

- A. LED Light Strip
- B. Aluminum Channel
- C. Mounting Clips
- D. Mounting Screws



## DISCONNECT POWER SOURCE (BATTERY) BEFORE STARTING ELECTRICAL WORK.

Recommended methods for splicing wires together (parts not included in Vista product kits):

- Solder and cover bare wires with heat shrink or electrical tape.
- Insulation-displacement connector (IDC) / insulation-piercing contact (IPC).
- Twist on wire connector, "wire nut".
- Crimp connector, "Butt splice".

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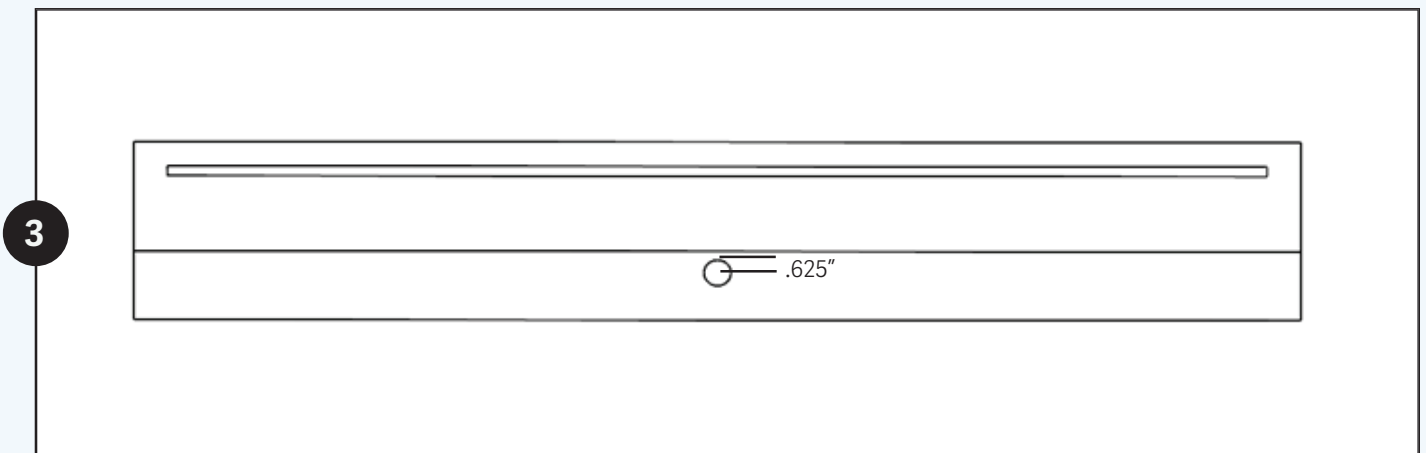
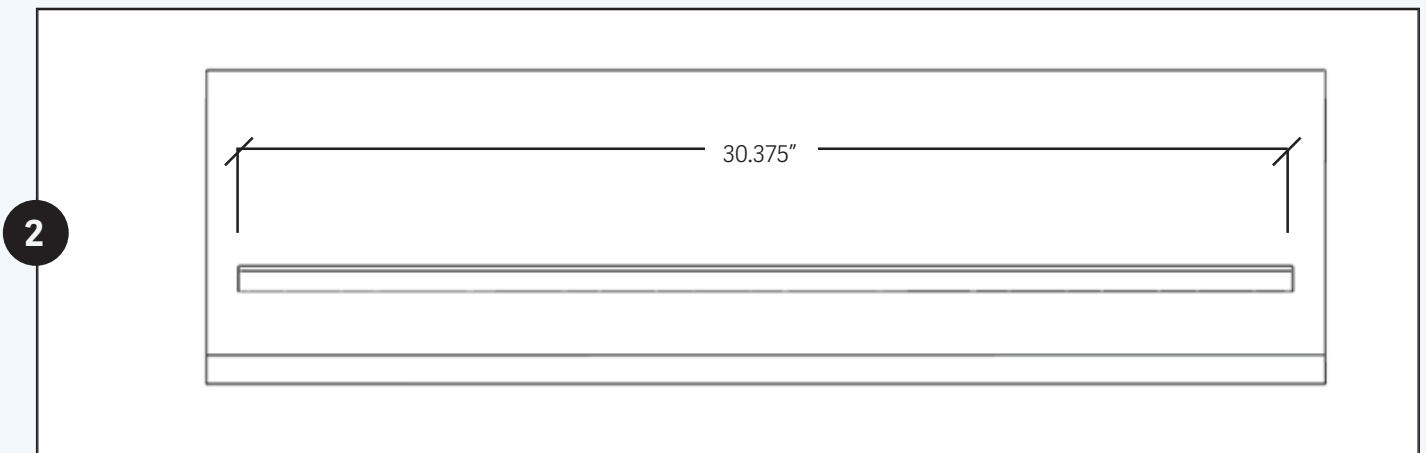
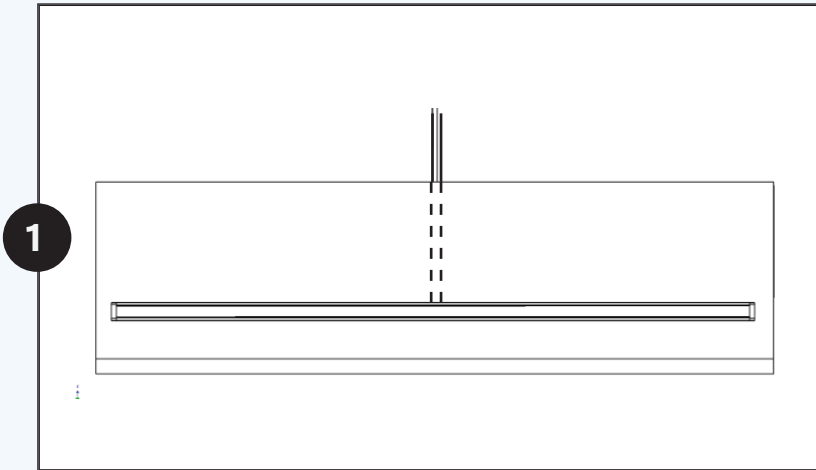
**FASTENING: Keep the following in mind:**

- Disclaimer: Drill/cut any holes at your own risk.
- Verify the location for the controller box to be installed. It is suggested that intended mounting locations are measured prior to installation to ensure proper fitment.
- Verify that there is a clear path for the power wires to be routed from the assembly to the power source.
- 2 screws are required to mount the clips (not included). Recommended screw size is #4 – 3/8" min.

**STEPS: FLUSH-MOUNTED LIGHTS**

**FLUSH MOUNTED LIGHTS**

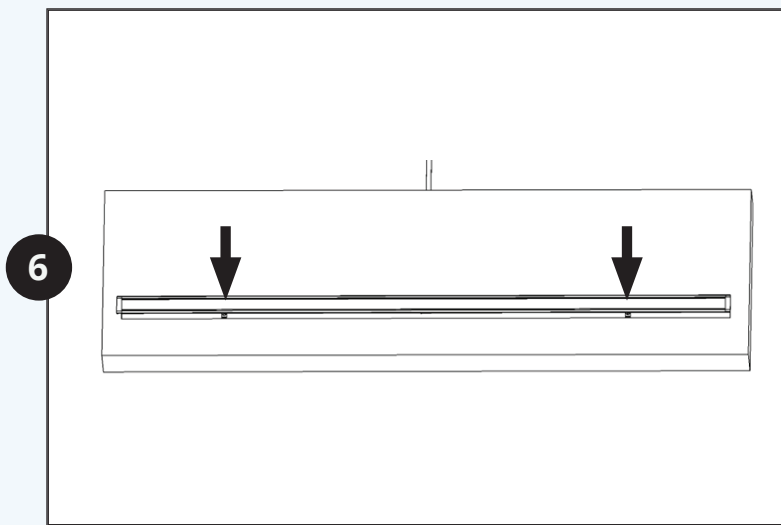
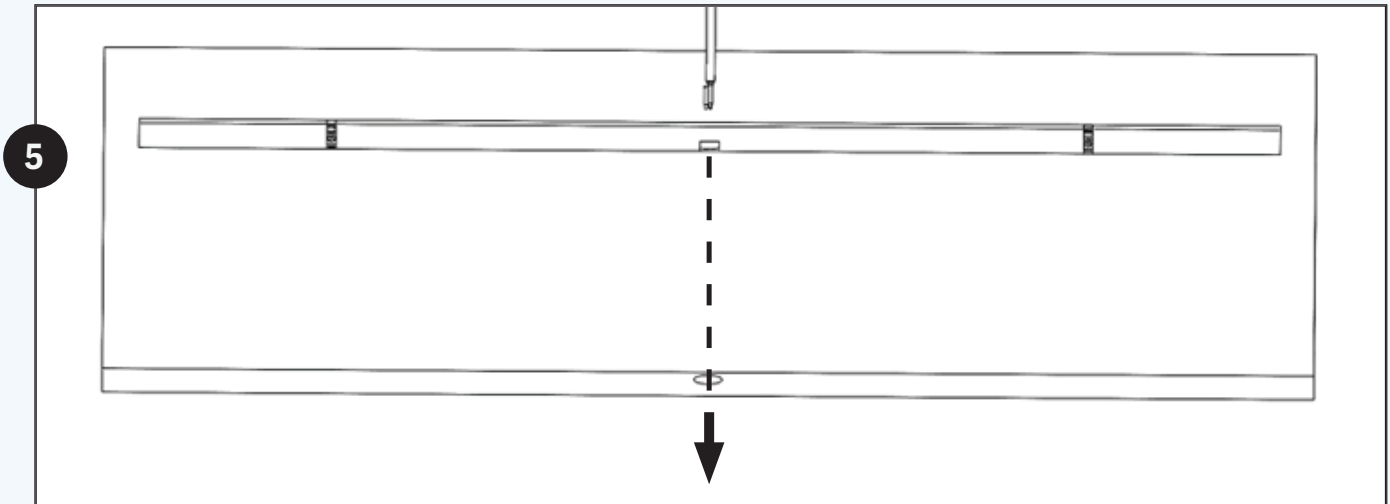
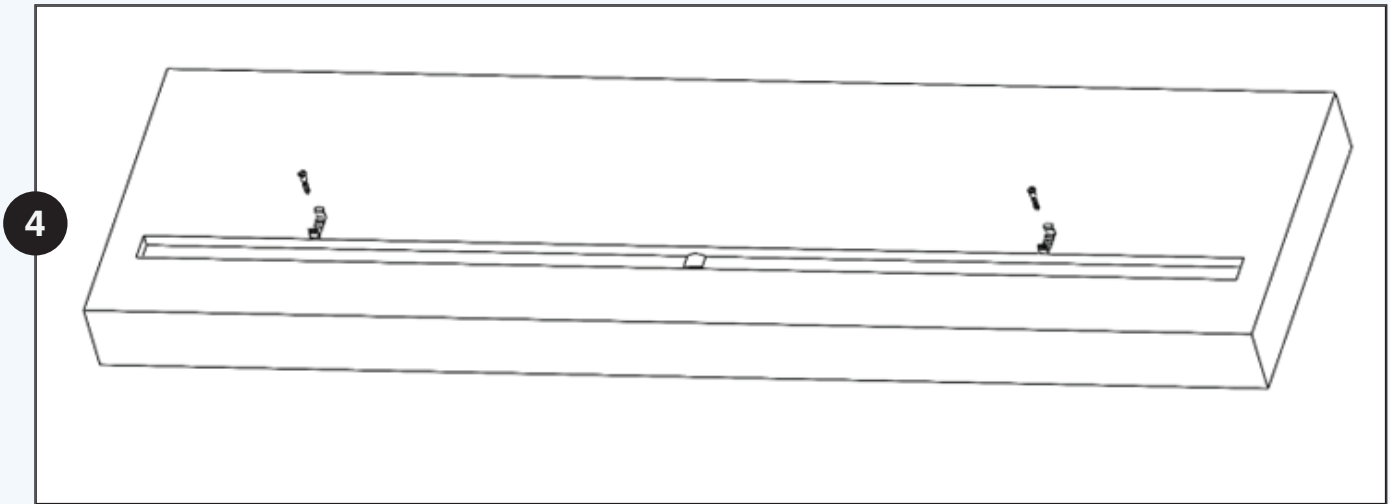
1. Determine where each light will be mounted by measuring length of the connector cable and the desired position on the tread.
2. Use a plunge-based router to remove a 0.875" x 30.375" area to a depth of 0.35"
3. Starting from the back of the tread, drill a 0.75" diameter hole centered 5/8" from the bottom of the tread and centered on the routed cutout



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STEPS: FLUSH-MOUNTED LIGHTS (CONTINUED)



**FLUSH MOUNTED LIGHTS (CONTINUED)**

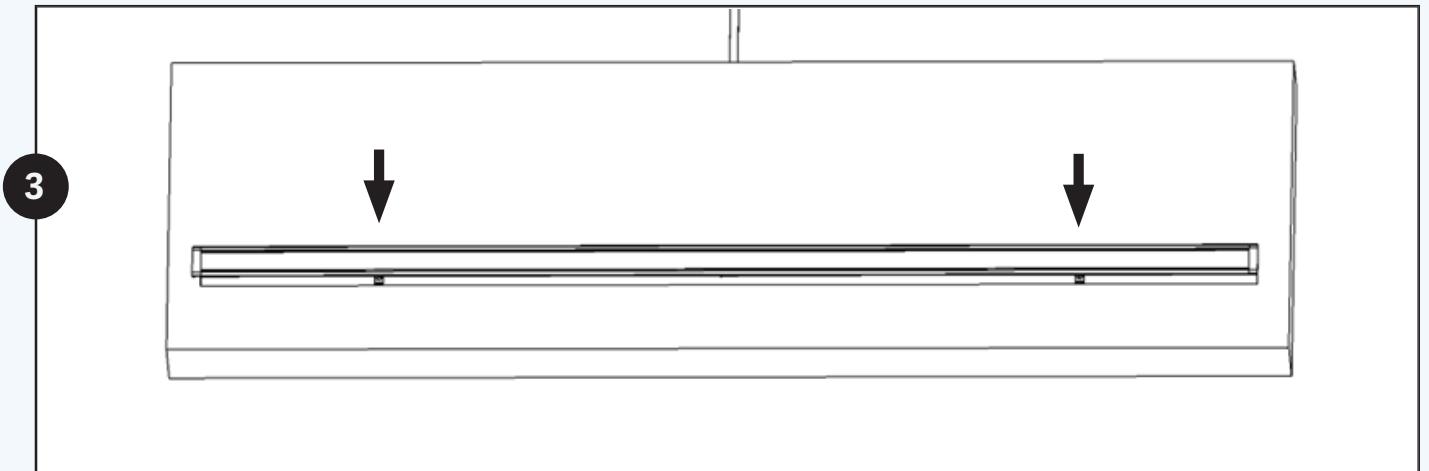
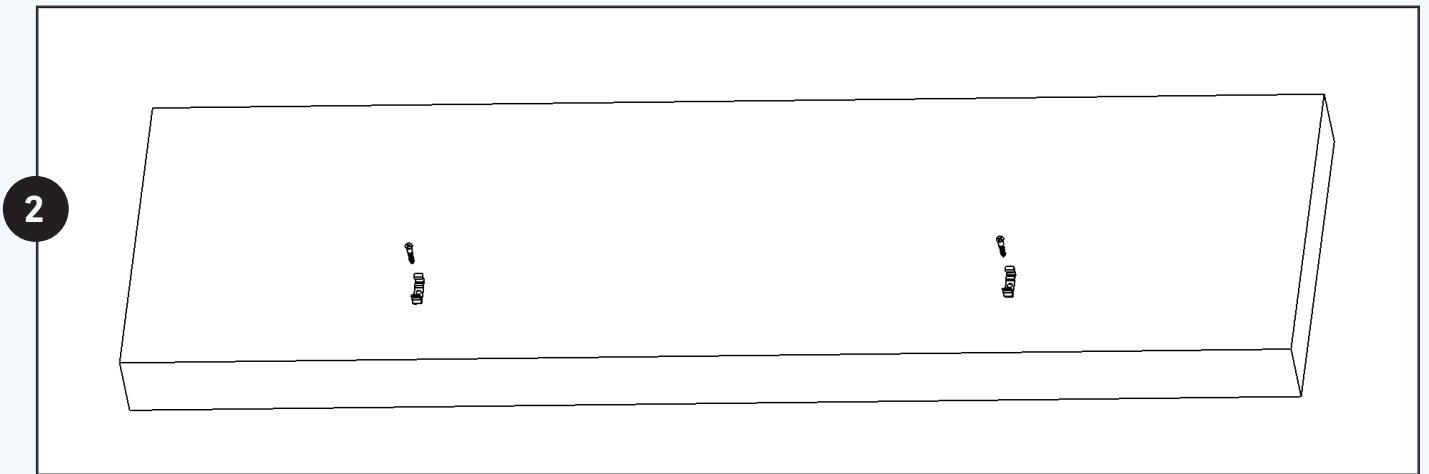
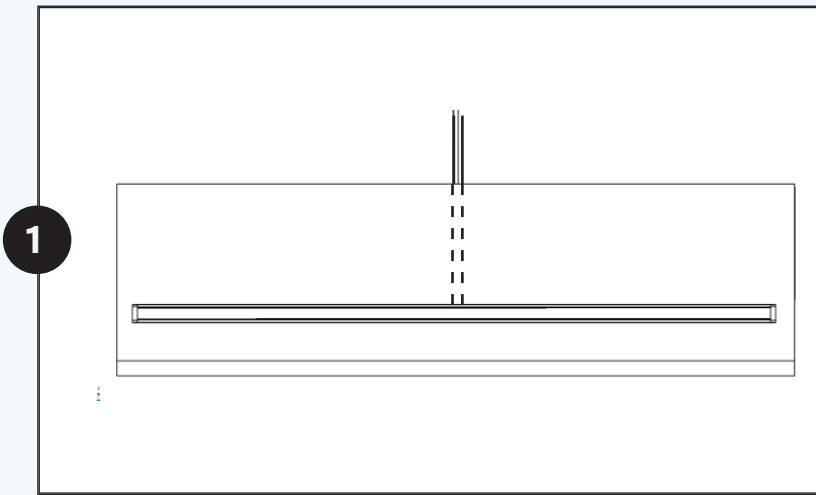
1. Use a #4 wood screw to mount the 2 clips 5" from either side of the routed edge
2. Pull the pigtail cable through the hole drilled in step 3, inserting the pigtail in the routed cut out side and exiting out the back of the tread
3. Press the light into position, focusing the pressure directly over each clip.

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## STEPS: SURFACE-MOUNTED LIGHTS

### SURFACE MOUNTED LIGHTS

1. Determine where each light will be mounted by measuring length of the connector cable and the desired position on the tread.
2. Use a #4 wood screw to mount the 2 clips 20" apart.
3. Press the light into the mounting clips, focusing the pressure directly over each clip.



REFER TO INSTALL INSTRUCTIONS FOR STAIR LIGHT CONTROLLER ASSEMBLY FOR WIRING INSTRUCTIONS

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**WARNING:**

1. Supply current and wattage must not exceed the rated values on the specification documents.
2. Incorrect polarity or improper wiring may cause personal injury and/or damage to the product. It is recommended that an electrical technician, professional, or similarly qualified individual finish wiring.
3. To avoid electrical shock risk, all failures should be examined by a qualified technician.
4. Environmental suitability, including but not limited to water resistance, varies based on product design. Unless explicitly noted, products are to be installed in a location shielded from outdoor elements. To avoid irreparable damage, refer to specification sheets to locate products in a proper environment.
5. Do not install products near an open flame or in high temperature environments unless the product is explicitly designed to function as such. Adversely, do not install products in excessively cold environments unless explicitly designed to function as such. Refer to product spec sheets/drawings for information about minimum and maximum operating temperatures.
6. Vista Manufacturing, Inc. is not liable for any injuries or damage caused due to improper wiring or installation.

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