



# Prism ETS™ Installation Guide



Refer to the Assembly Guide document if your lights aren't assembled

**Call 301-244-8419 for assistance**

Designed, Assembled, and Tested in the USA



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## **Critical Safety Information**

### **Installer**

This product must be installed in accordance with the applicable local electrical codes by a qualified electrician.

### **Electrical Connections**

- Turn off the power at breaker before starting installation.
- Do not plug or unplug AC power cables with the power applied.
- Ensure that the AC line voltage is compatible with the AC input voltage listed on the LED driver.
- Use AC connection cables from the junction box to the LED driver that have a maximum voltage rating of 600V for proper operation.
- Use minimum 90°C supply conductors.
- All connections should be made to the Prism ETS™ 650 LED driver before applying AC power
- Install cords in the following manner:
  - Not concealed or extended through a wall, floor, ceiling, or other parts of the building structure.
  - Not located above a suspended ceiling or drop ceiling.
  - Not permanently affixed to the building structure.
  - Routed so that they are not subject to strain and are protected from physical damage.
  - Are visible over their entire length.
  - Used within their rated ampacity as determined for the maximum temperature of the installed environment as specified in the instructions.

### **Photobiological Risk**

Following is the Photobiological Risk information from UL.

Risk Group 1
No Labeling Required
Product Tested Against IEC62471



## Important Installation Notes

### LED Bar Types and Bin Codes

Prism ETS™ bars are available in differing light spectrums such as GH1, GH2, GH3, BKW and others. In addition, each Prism ETS™ bar has a specific bin code. The spectrum and bin codes are labeled using a yellow sticker on the back of the Prism ETS™ bar.

**GH2-C**

Spectrum

Bin Code

**NOTE:** For Prism ETS™ bars connected to the same LED driver, the Spectrum and Bin code must match as shown below in Table 1 Prism ETS™ Spectrum and Bin code matching. Mixing Prism ETS™ bars with different spectrum types or bin codes on a single LED driver may shorten the life of the Prism ETS™ bars or result in failure.

### Bar Type and Bin Code Example Table

Bar 1	Bar 2	Acceptable?
GH1 Bin C	GH1 Bin C	✓
GH1 Bin C	GH2 Bin C	✗
GH3 Bin C	GH3 Bin D	✗

Table 1 Prism ETS™ Spectrum and Bin code matching

### Clearance

The Prism ETS™ should have minimum clearances of:

- At least 2" clearance from the ends to other light bars or LED drivers.
- At least 4" clearance on the sides and at least 10" from any other (non-ETS MAX) lighting fixture or heat generating device.
- Suspended from a light rail with at least 4" above the bar.

### Ambient Temperature

- Maximum ambient temperature is 104° F or 40° C when the Prism ETS™ 650 and 430 are in operation.

### Mounting

- Prism™ ETS 650 components must be clear of any moving objects such as hanging baskets.



#### Warning: Handle LED Boards with Care

Do not bump, scratch, or apply pressure to the LED boards during handling, assembly, or installation. The LEDs are sensitive components and can be permanently damaged by impact or improper contact. Always support the fixture from the frame and avoid touching the LED surface directly.

## Components

PRODUCT PART	IMAGE
<b>PRISM ETS™ ARRAY</b> (430 or 650)	
<b>LED DRIVER</b> 1. Prism ETS™ 650: uPowerTek TLD600C14 2. Prism ETS™ 650: PowerLand 800 HTH56CV-MP 3. Prism ETS™ 430: uPowerTek TLD400C990	
<b>PLASTIC MOUNTING HOOKS</b> (Optional depending on your lighting setup)	
<b>WIRE MOUNTING HOOKS</b> (Optional depending on your lighting setup)	
<b>10-16X3/8 PAN - PHILLIPS TYPE B - SELF TAPPING SCREWS - 18-8 STAINLESS</b>	
<b>UNIVERSAL DRIVER HOOKS</b>	



## Installing Wire Hooks for Parallel Configuration

We recommend lights to be hung with two people.

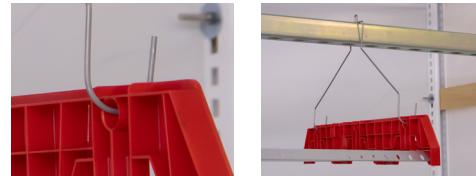
### Step 1:

Place the hooks on the unistrut.



### Step 2:

Insert the wire hooks into the outermost mounting holes of the array end caps on both sides, ensuring the wire hooks are parallel to the array end caps.



## SECTION 2: Connecting the DC Cables to the Prism ETS™

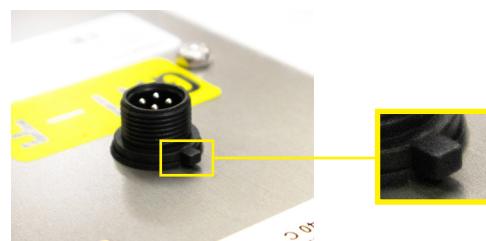
Note: If your DC cables are already connected to the Prism ETS™, skip this step.

### IMPORTANT:

Proper cable connections are critical. Failure to follow these steps may result in a blown fuse and/or damage to the light that will require repair.

### Step 1:

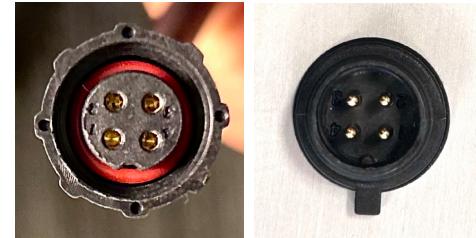
Locate the three panel-mount connectors on the back of the Prism ETS™ board. The panel-mount connectors should have 4 pins inside of them. Ensure that the alignment tabs on all connectors are facing the same direction. These tabs indicate the correct orientation and help guide proper installation.



### NOTE:

Each female DC cable connector has a slot inside the connector.

This slot must align precisely with the detent (tab) located inside the panel-mount connector to ensure proper connection.



Female DC cable connector

Panel-mount connector

**Step 2:**

Begin with the center DC cable connector.  
Carefully align the detent in the DC cable connector with the slot on the panel-mount connector.  
When aligned correctly with some pressure, the connector will slide down and seat firmly onto the panel-mount connector.  
Once seated, twist until it is fully secured.

**Step 3:**

Follow the same alignment and seating process for the left and right connectors. Make sure each one is properly aligned (detent-to-slot), fully seated, and tightly screwed in by hand.



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**SECTION 3: Attaching the Universal Driver Hooks onto the Driver**

Tools Needed: Phillips screwdriver and the provided screws.

**Step 1:**

Identify which two holes on the LED driver align with the holes on the universal hooks.

**Step 2:**

Use the provided screws to attach the universal hook on one side of the LED driver. *Note: It may be difficult to drive the screws down into the mount, this is intentional as the screws are thread forming and the mounts need to be firmly secured on the driver.*

**Step 3:**

Repeat on the opposite side. Hole placement may differ.  
Ensure both universal LED driver hooks face the same direction and sit evenly.

## SECTION 4: Installing the Driver

**Note:** Ensure the driver is securely mounted and both light array and driver are hung before proceeding with electrical connections.

**DRIVER TYPES:**

Prism ETS™ 650: **uPowerTek TLD600C14** or **PowerLand 800 HTH56CV-MP** | Prism ETS™ 430: **uPowerTek TLD400C990**

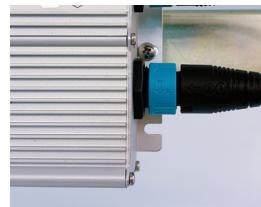
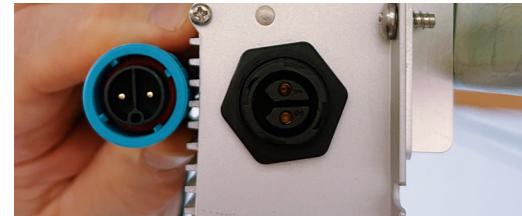
**Step 1:**

Line up the universal driver hook on the back of the driver to be seated over the unistrut. Press down firmly and ensure that it is stable.



**Step 2:**

Locate the DC output connector on the driver and align it with the central T-connector on the DC power cable. Press the connector into the output port until the blue locking ring clicks into place. Gently tug on the cable to ensure it is fully seated and lock.



## SECTION 5: Connecting AC Power

**Warning:** The connection of the AC power cable to the junction box should only be performed by a qualified electrician. Be sure to turn off AC power at the breaker before starting electrical installation. Do not plug or unplug AC power cables with the power applied.

**Step 1:**

Start with the AC Power turned off. If the junction box has a power receptacle, plug the AC power cable into it. If the junction box does not have a power receptacle, the AC power cable should be wired into the junction box by a licensed electrician. Plug the other end of the AC cable into the Input connector on the LED Driver, making sure it's properly aligned. Press until the blue locking ring clicks, then gently pull to confirm it's secure.



**Step 2 (if applicable):**

If using dimming cables, connect them to the dimming connector on the LED Driver. Align the keyed connector with the light bar, press until the blue locking ring clicks, and gently pull to ensure it's locked in place.





### Installed Prism ETS™ 650



### Installed Prism ETS™ 430



**Congrats! Your Prism ETS™ is installed!  
For additional assistance, call 301-244-8419**