



# INSTALLATION INSTRUCTIONS

# PLATINUM COVE™ LED 7178059



Read instructions entirely before starting installation.

Call Tivoli, LLC with any questions.



Tivoli's Platinum Cove LED is used mostly for indirect lighting designs. To design the best and most attractive system, first determine lamp spacing and accessories needed.

### Caution:

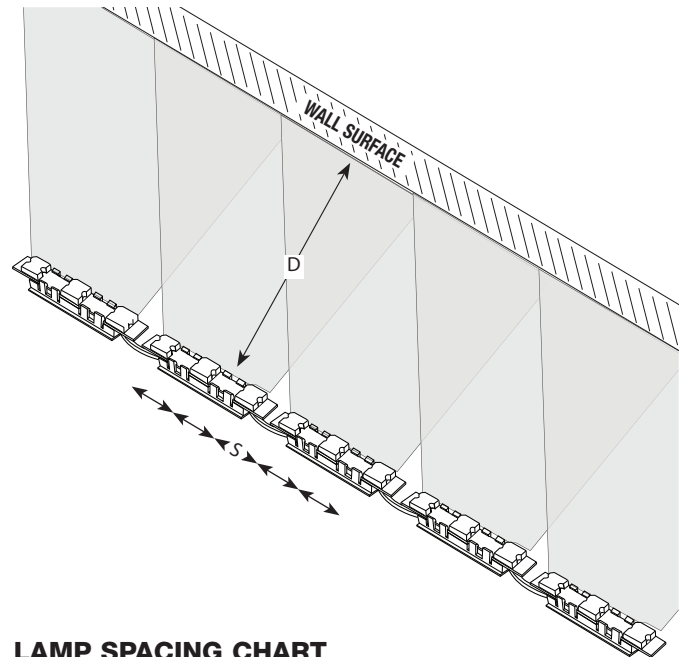
Platinum Cove LED is designed to work with Class II 12V DC transformers only. Use of any other power source will cause damage, shorten the life of the fixture and may void the warranty.

Be sure power is turned off before installing.

### LED DATA

LED	WATTAGE	LED LIFE†	VIEWING ANGLE
 Piranha Superflux	0.31W per LED PCB module	White (5500°k +/-500°k) Warm White (2800°k +/- 300°k) Blue, Green - 40,000 hrs. Yellow, Red - 100,000 hrs.	130°
 Ultra Bright Triple Chip	0.50W per LED PCB module	White (5500°k +/-500°k) Warm White (2800°k +/- 300°k) Blue, Green - 30,000 hrs. Yellow, Red - 80,000 hrs.	180°

\* Lamps operate at 90% of design voltage.  
† Readings at 90% of design voltage.

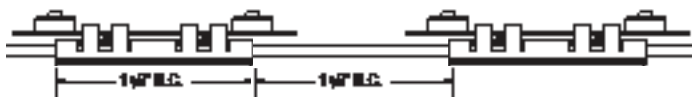


### PROFILES

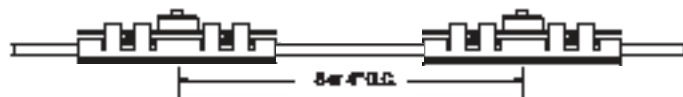
SERIES 01 TRIPLE LED MODULES FOR ¾" O.C. SPACING



SERIES 02 DOUBLE LED MODULES FOR 1½" O.C. SPACING



SERIES 03 AND 04 SINGLE LED MODULES FOR 3" AND 4" O.C. SPACING



### LAMP SPACING CHART

Different LED spacings can create dramatically varied effects. Tighter spacing is most appropriate for uniform lighting applications. The chart above is an example of uniform lighting based on spacing between module and distance to surface for even illumination.

LED's are made in lots and sorted into bins based on wavelength ranges that achieve colors. Tivoli uses a range of 2500°k to 3100°k for warm white and 5000° to 6000°K for white. Individual orders are bin-sorted to within plus or minus 200°k and it is recommended to purchase 10% replacement stock within that bin lot to ensure matched color for needed replacements. White LEDs vary slightly in color temperature from bin to bin. Tivoli references each bin location number on the packing list and labels it on each LED product accordingly. During installation, it is very important that like bins are located in close proximity for color consistency. The overall color will visually appear consistent even with multiple bins located in surrounding areas. However, if different bins are located in close proximity there may be slight color visible variations.

The last two characters assist in identifying the bin number. For example:  
Bin No. B27D5  
Bin No. B5W3

D5 should be installed close to each other.  
W3 should be installed close to each other  
D5 and W3 should **NOT** be installed close to each other.

### MEAN TIME BETWEEN FAILURES (LED MTBF)

While Tivoli utilizes LEDs provided by industry leading vendors, these are electrical components with calculated mean time between failure (MTBF). MTBF for LEDs typically exceeds 100,000 hours. MTBF indicates the point at which 50% of the LEDs will lose 50% of their original brightness. Conditions such as excessive voltage, vibration, heat, and other adverse environments may negatively effect the life of LEDs.

# PLATINUM COVE™

## LED

### 7178059

# INSTALLATION INSTRUCTIONS



#### PRODUCT SPECIFICATION GUIDE

SERIES	PRODUCT MAX RUN LIMITATIONS (Ft/W/LED's)
01 Series - Piranha	5A or 25ft
01 Series - Ultra Bright Triple Chip	5A or 13ft
02 & 03 Series - Piranha	5A or 35ft
02 & 03 Series - Ultra Bright Triple Chip	5A or 18ft

#### Wiring Size

In order for low voltage circuits to operate properly, care must be taken in sizing the wire from the transformer to the light strings.

Tivoli recommends to locate the transformer as close to the light string as possible. Use 12 gauge wire and keep the transformer with 100' of the fixture.

**Step 1:** Measure area where system is to be applied.

**Step 2:** Lay the Platinum Cove LED light string along desired area.

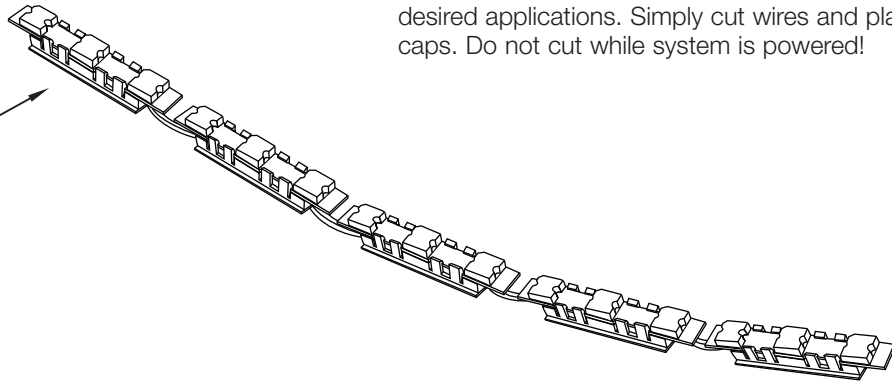
**Step 3:** If the design requires a mounting channel, lay channel along desired area and apply screws (by others) every 9 to 12 inches. Then snap light string into mounting channel.

**Step 4:** Insert end caps into channel and secure with screws (by others) and snap optional lens onto mounting channel.

**Step 5:** If the design requires mounting clips, first lay light string along desired area, then place mounting clips every 12 inches and apply screws (by others).

**Step 6:** Platinum Cove LED is easily cuttable for desired applications. Simply cut wires and place end caps. Do not cut while system is powered!

#PTCL-01-U-XX-12  
Platinum Cove



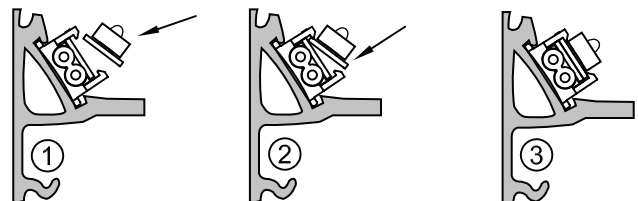
#### NOTE:

For use with Class II 12V DC low voltage transformer. The maximum load of the light string must not exceed the capacity of 5 Amps per circuit. Running length over these limitations will require multiple light strings with independent feeds to the transformer.

#### TRANSFORMER

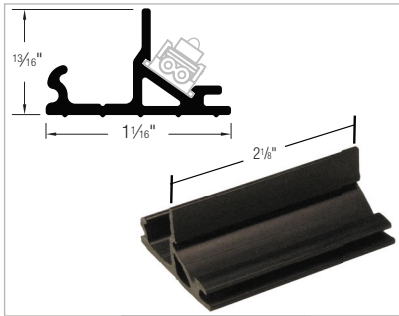
$60 \text{ watt } 5 \text{ Amps} / 0.75\text{W} = 80\text{-}10\% = 72 \text{ LEDs}$

#### LED PCB REPLACEMENT

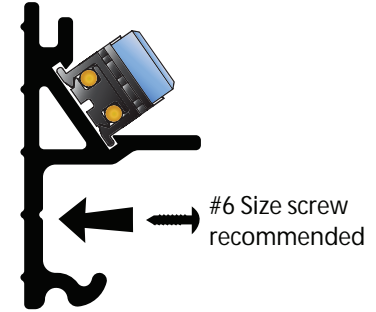
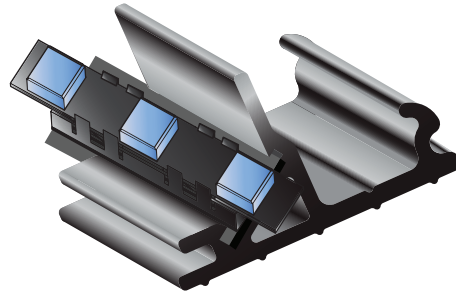


SHOWN IN OPTIONAL MOUNTING CLAMP

### MOUNTING CLAMP

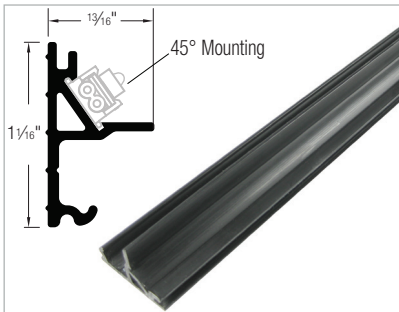


**MOUNTING CLAMP** Horizontal Cove Mount Shown  
For radius installations with angled illumination. One clamp per module required.

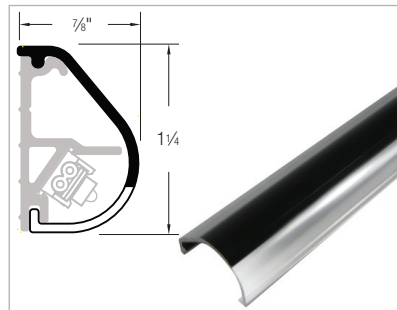


**WALL MOUNT**

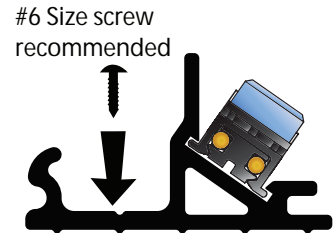
### MOUNTING CHANNEL



**PLATINUM COVE CHANNEL** Vertical Wall Mount Shown  
Screws should be mounted every 18", or less on curved wall. Available in lengths up to 8'.

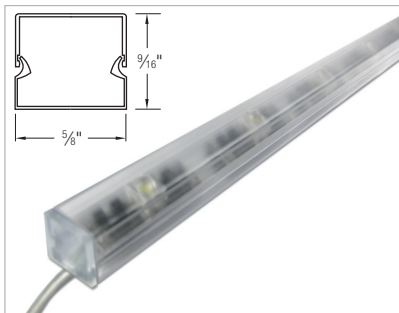


**PLATINUM LENS COVER** Protected downward illumination  
Available in lengths up to 8'.

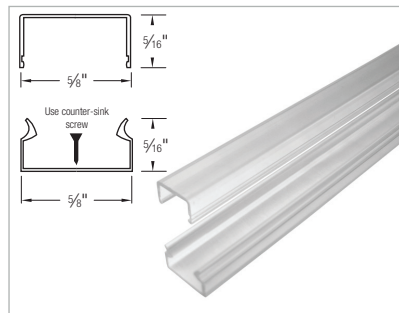


**HORIZONTAL MOUNT**

### INFINITY MOUNTING CHANNEL

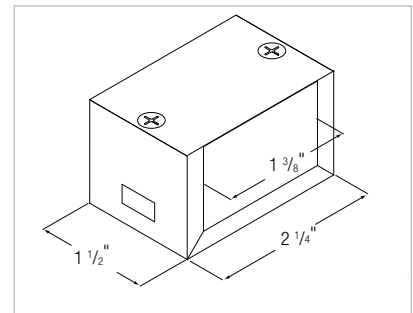


**INFINITY MOUNTING CHANNEL AND COVER ASSEMBLED WITH ENDCAP AND LEADWIRE**



**INFINITY MOUNTING CHANNEL WITH COVER**  
Available in lengths up to 8'.

### JUNCTION BOX



# PLATINUM COVE™

## LED

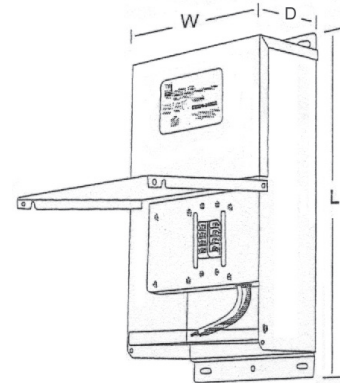
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### CLASS II TRANSFORMER ORDERING INFORMATION

DESCRIPTION	CAT. NO.	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX. LOAD	CIRCUIT CAPACITY	DIMENSION
Class II Transformer JT Series	JT-60-1-5-1-D-120VAC	OUTDOOR	120V AC	12VDC	1	60W	5A	4.25" W X 8.50" L X 3.25" D
	JTH-60-1-5-1-D-277VAC		277V AC					
	JT-240-4-5-1-D-120VAC		120V AC		4	240W		8.50" W X 16.00" L X 4.50" D
	JTH-240-4-5-1-D-277VAC		277V AC					

### Problem 1: Whole run failure

Whole-run failures are typically caused by loss of power to the Platinum Cove Product run. These failures have 3 basic causes;

- 1) No power to transformer or bad transformer
- 2) No power from circuit breaker or tripped breaker
- 3) no power from the connection feed

### NO POWER TO TRANSFORMER TESTS

- 1) Confirm that transformer has power and that break is set to "On".
- 2) Determine if there is power to the transformer by turning primary breaker inside "On" and "Off" to see if there are any product runs that are working off of this transformer.

If the transformer is receiving power and all breakers are in the "On" position and there is no output power of 12VDC then the transformer needs to be replaced.

### NO POWER FROM CIRCUIT BREAKER TESTS

If the transformer has been confirmed to be working and only a single circuit of Platinum Cove is off,

- 1) Confirm that all of the secondary output breakers in the transformer are in the "On" position.
- 2) Determine which circuit the outage is connected to and check to be sure that all wires are connected firmly and in correct polarity. Then, If all secondary breakers are in the "On" position and all is connected correctly isolate between circuit breaker and product by swapping the failed circuit to another working circuit.

If the problem still exists within that same run or the new breaker trips then the problem is on the product side. If the problem exists now with the new run, then the transformer has a failed breaker and needs to be replaced.

### NO POWER FROM CONNECTION FEED

If the transformer and all secondary circuits have been confirmed to be working and the Platinum Cove run is off or tripping the breaker when connected,

- 1] If the breaker stays in the "On" position then the issue is a loose or bad connection and a mid-wire Jbox or at the Power Feed Connector. Confirm that the power feed connection is secure by wiggling and pressing it together. The connection may need to be replaced.
- 2] If the breaker stays or retrips to the "Off" position, then the issue is due to a short at either a mid-wire J-Box, the Power Feed Connection, the End Cap, or a damaged area along the Platinum Cove run.

Examine and confirm that There are no blackened areas along the product run and at any of the connection or end cap areas. Typically, there is a short at the Power Feed connection due to improper cut through the Platinum Cove allowing for a small cross-wire short to exist. Replace connections or damaged areas as needed.