



Product Overview

The Elara Strip IITM is a light engine designed for strip lighting. The Elara Strip IITM combines nine LEDs with a dimming regulated current driver, all on a 11.5" x 0.45" strip. The low 0.15" profile and wide 120° viewing angle allows the Elara Strip IITM to be mounted in tight locations while still providing flood illumination. The Elara Strip IITM is designed to be connected end-to-end for long runs that only need power applied to one end of the run. The 0-10V dimming input allows the Elara Strip IITM to be dimmed with many off-the-shelf dimming controls. Built-in surge protection further enhances the reliability of this versatile strip.

Electrical Specifications

Input Voltage: 12-25V DC
Absolute Maximum: 28V DC
Power: 5W at 20°C
Dim Input: 0-10V
Operating Temp: -40°C to +50°C

Features

- Up to 450 Lumens / ft. light output
- Efficient and flexible on-board drive circuit accepts 12-25V input
- 0-10V dimming input, compatible with many off-the-shelf dimming controllers
- End-to-end connectable up to 10 feet
- Strips can be cut down to 4" or 8" lengths

Typical Applications

- Cove Lighting
- Display Lighting
- Landscape Lighting
- Automotive Lighting
- Architectural Lighting
- Accent Lighting
- Wall Wash & Bias Lighting
- Solar/Off Grid Apps



Electrical Connections

With the pins on the left, the connections on each end of the Elara Strip IITM (from top to bottom) are Vin+ (VCC), SWITCH, DIM and POWER/DIM GROUND. Because the connections at one end are identical to the other end (from top to bottom), multiple Strips can be connected end-to-end to make longer runs (up to 10'). To make this easier, the Elara Strip IITM comes with end-to-end connectors. Power and dimming can be brought out to wires on one end using an Elara Strip IITM Wiring Harness (Part #7011-HE). The wiring harness needs to be installed with the RED wire connecting to the VCC pin (labeled right next to the connector on the strip). See Fig. 1.



RED	Vin+ (Vcc) +12-25v DC
ORANGE	Switch
PURPLE	Dim
BLACK	Vin- (Power/Dim Ground)

Fig. 1 - Electrical Connections

Part Number	Color Temp	Min CRI
7011-B27	2700K	80
7011-B30	3000K	80
7011-B35	3500K	80
7011-B40	4000K	80
7011-B50	5000K	70
7011-B57	5700K	70
7011-B27	6500K	70

Power Budgeting

The Elara Strip IITM should be budgeted at 5W per foot. If a 4" or 8" section is used, it should be budgeted at 2W per 4" length.

Dimming

The Elara Strip IITM can be dimmed using a 0-10V dimmer. The COMMON or GROUND wire of the dimmer should be connected to the GND input on the Elara Strip IITM, and the 0-10V SIGNAL wire should be connected to the DIM input on the Elara Strip IITM. The strip goes into standby mode when the DIM voltage drops below 0.6V. In this mode the LEDs will all be off. Leaving the DIM input unconnected will result in full-brightness operation.

The Elara Strip IITM dimming has been tested with Lutron Nova T^{*} and Nova T[☆] 0-10V Slide Dimming Modules, as well as the very affordable A019 dimming module by LUXdrive.TM

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Heat Sinking and Mounting

The Elara Strip IITM can be mounted and operated without a heat sink, however using an aluminum Heat spreader is recommended for maximum LED lifetime. The heat spreader should be a minimum of 1/16" x .5" and run at least the length of the strips. The strip can be attached to the heat spreader with a thin double-sided tape (such as VHB) or thermal tape (such as 7011-TAT from LUXdriveTM).

4" and 8" Strips

The Elara Strip IITM can be cut to the lengths of 4" or 8". These strips can be used individually or as the last strip in a longer end-to-end run of strips. To create a shortened strip, locate the solder jumper (designated by SJ1) between the first and second led on the strip. These are blobs of solder or zero-ohm jumpers that connects two parts of the circuit. If strip is cut to 4" remove SJ2 if strip is cut to 8" remove SJ1. Remove the jumpers with a soldering iron and some solder wick or a solder sucker. Once the electrical connection has been broken, simply shear the strip. The left side can then be plugged into another strip or into a wiring harness.

Physical Dimensions

All dimensions are in inches (+/- 0.1").

When Elara Strips IITM are placed end to end, the 1 $\frac{1}{3}$ " LED pitch is maintained along the length of the run.

