



Loda LED Lighting Summary

LED Lighting Specs:

- Continuous lighting strips - Hotspot-free appearance (even in low profile channels)
- Correlated color temperature (CCT): 3,000K (warm white)
- Fully dimmable (dimmer sold separately)
- UL Listed and RoHS
- 90 watts per reel | 18 watts per meter | ~6 watts per foot
- 7350 lumens per reel | 1470 lumens per meter
- Power supply varies by application (sold separately). We generally recommend using a power supply rated for at least 20% higher wattage than the lighting. We recommend and can supply Meanwell products. Keeping drivers close to lighting helps prevent voltage drop issues.
- Baffle suspension has low-voltage wire - length from baffle to ceiling required at time of order otherwise, we will supply 9' of wire.

Sonus' responsibility of lighting ends with low volt wire to the ceiling. An electrician is responsible for identifying correct wiring, power supply, and connections to a power source. Sonus can supply Driver and Dimmer upon request or the electrician can supply.

Power Supply / Driver / Transformer

We generally recommend using a power supply rated for at least 20% higher wattage than the lighting (6/5 of estimated actual power consumption). These numbers are conservative, since additional margin for error is built into the ratings of the power supplies themselves. Using a more powerful driver than you need is not a problem for the components and will actually extend the operational life of the power supply.

There are two limits you need to keep in mind:

1. How much load can you put on each driver?
2. How much wire and lighting can you drive in one branch without making a home run to the driver? The answer is generally one "unit of sale," which is a reel or set of modules.

They are very different concepts. Examples:

1. How much load can you put on each driver?



Let's say you put 75 feet of 24-watt regular strip on a 60-watt driver. You don't violate #2 above, but you do violate #1. The driver is not big enough and your installation won't work. You need a more powerful driver.

2. How much wire and lighting can you drive in one branch without making a home run to the driver?

Let's say you have a 150-watt driver and you connect 50 feet of regular strip lights in a single line. You don't violate #1-your driver is large enough (150>> 24 watts x 50 feet.) You do exceed the branch length limit of 16-20 feet, so after 20 feet your lights will become ever dimmer. In an RGB installation, they will be the wrong color and appear to respond strangely to the controller. Worst of all, the section of strip light closest to the driver will be forced to carry more current than it is designed for. This will cause it to run hot and fail prematurely. Shorten your branches by making home runs to the driver or controller. Or, let's say you want to put the same 3 reels of regular strip light at the end of a 50 foot run of 18 gauge wire. Using 12 volts, 18 gauge, 6 amps load and 50 feet, we calculate you'll drop 3.95 volts. If you power your head end with 8 volts, it will barely light. At the tail end of each reel, it will probably be dark. You need thicker wire or a shorter run. Put the driver closer to the lights, if you can. Using a higher wattage driver won't help with this problem. You could adjust the driver voltage up to compensate for the drop, but very few drivers allow enough adjustment to accomplish that, plus if you have any lights closer to the driver, you run the risk of burning them out with excessive voltage (and, therefore, current.) Use thicker wire, make more home runs and move your drivers closer to the lights.

Low Cost / Easy Configuration Recommendations:

	Driver	Dimmer
High Voltage Dimmer	DMU-24-30 (48" Loda) DMU-24-60 (72-96" Loda)	Contractor supplied - typically wall mounted
Wireless Low Voltage Dimmer	LPV-35-24 (48" Loda) LPV-60-24 (72-96" Loda)	Linkup-Dim
No dimmer	LPV-35-24 (48" Loda) LPV-60-24 (72-96" Loda)	N/A

Note: the above assumes one driver per light. Anytime lights are separated by more than 15" or when no designer or electrician has defined in plans, we recommend a driver per light. This simplifies solutioning and avoids needing to engage a designer and electrician.



Recommended Dimmer allows for 45 feet of LED on a single channels (2 channels per receiver). You can link multiple receivers to a remote.

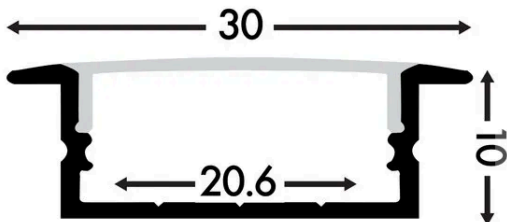
LED Channel:

The CS117-2m LED Channel System includes our high quality aluminum channel and compatible frosted diffuser. Suitable for custom high brightness fixtures. Creating a professional LED strip light installation has never been easier.

- Comes in 2 meter segments and can be cut to any length.
- 30 mm wide by 10 mm high.
- Includes aluminum channel and diffuser.
- Perfect for mounting LED Strip Light up to 20 mm in width.
- The frosted diffuser protects LED strip light from the elements and softens lighting effects.
- Compatible end caps are available (sold separately).
- Aluminum channel is not returnable because the packaging and freight costs are typically higher than the product cost.

Inside Width	> 14.4 mm
Height (English)	0.39 in
Height (Metric)	10 mm
Length (English)	78.74 in
Length (Metric)	2 m
Manufacturer	EnvironmentalLights
Width (English)	1.18 in
Width (Metric)	30 mm

CS117

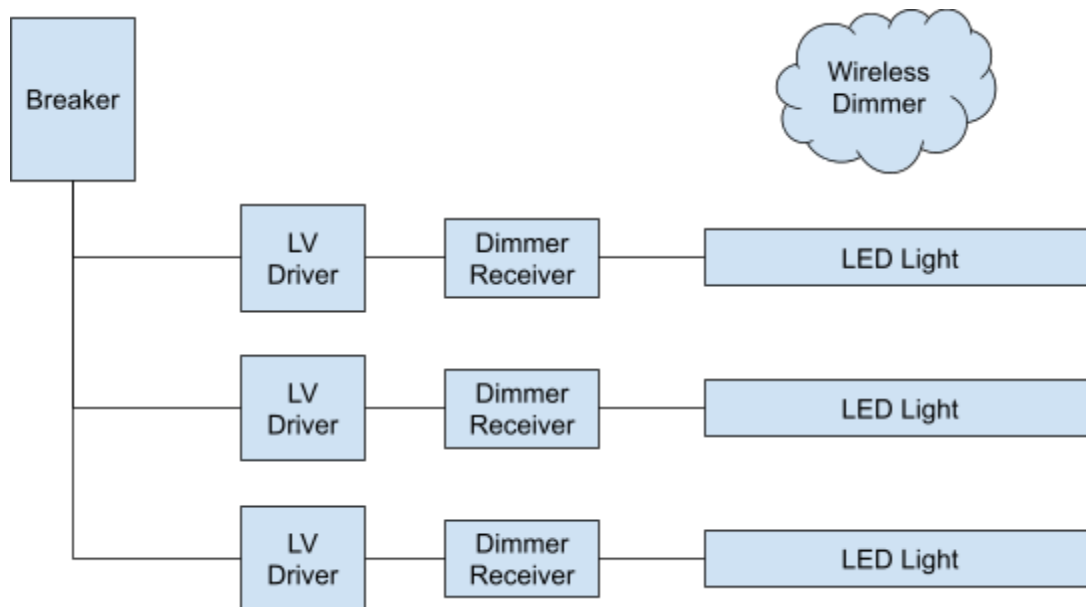


measurements in mm



Lighting Configurations:

Wireless Low Voltage Dimmer (or no dimmer)



High Voltage Dimmer

