

# Proper Sizing, Spacing and Lighting Techniques

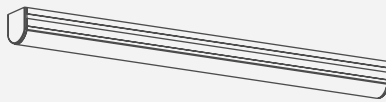
As its name suggests, under cabinet lighting refers to lights that are installed under a cabinet, resulting in illumination of the area immediately below a section of cabinets. It is most commonly used in kitchen areas, where additional lighting is useful for food preparation.

## Types of under cabinet lighting



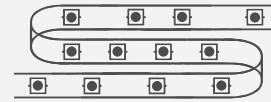
### Puck lights

Pucks are the most versatile product as they can be installed in any application. Most of our pucks can either be installed as a surface mount or recessed into the cabinetry so that they are flush to the surface. Our pucks are designed to provide smooth and uniform light output.



### Linears

Linears are great for efficient and uniform solutions. Our linears are all designed to be surface mounted and many of them can also pivot to focus them on other features such as the backsplash. Most linears come in a variety of sizes, so combined together they can cover the length of most surfaces.



### Tape lights

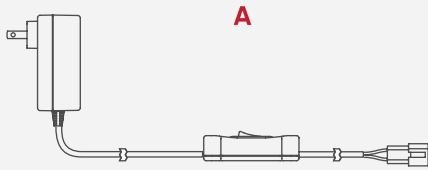
A flexible roll of LED's with an adhesive back, tape lights can virtually be installed in any application, even beyond undercabinet lighting. Super low profile and easy to install.

### How many do I need?

If you are installing pucks, we recommend spacing them approximately 24" apart. For linears you can either install them seamlessly from end to end or leave a gap equivalent to the size of the product.

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## Power source

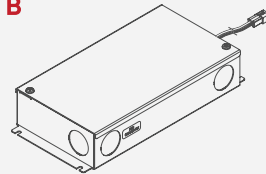


**A**

### Low voltage (12V)

Low voltage systems include two parts: the light fixture and the driver. You would typically use one driver to power several products. The advantages of low voltage is that the light fixture can often be sleeker as less components are required and since the wiring from the driver to the fixtures is low voltage it is much thinner and less restrictive.

**B**



### Direct wire (120V)

120V direct means that no other components are required to power the product. Either the LED's are 120V direct or a driver is integrated in each product. The advantage of a 120V product is the ease of installation.

### Choosing the right Driver

We offer a wide range of plug in **(A)** and direct wire drivers **(B)**. To select the right driver, simply add up the wattage from all your lights and choose a driver with a higher wattage.

## Connections

### Direct wire

Direct wire systems are typically installed by electrical contractors, it means that the power feed is connected directly inside the product or driver, without any plugs therefore no exposed wires. Direct wire installations must be enclosed in a connection box with a minimal volume for a safe connection. All of our direct wire products have the connection box built in to them with convenient knock-outs to discretely pass the wiring.

### Plug-in

Plug-in options are really easy to install as they plug directly into an electrical outlet.



For optimal dimming try to use up at least 50% of the drivers capacity. For example, if all products come up to 10 watts, you would be much better off with a 12W driver than a 24W driver.