DL

# DIODE LED
## PREMIER LED LIGHTING COLLECTION

# "Experience the Diode Difference"

We are passionate about sustainability, specifically energy conservation and the role LEDs play in producing healthy environments. It is this passion which drives our pursuit to provide high quality products at affordable prices.

In a fast paced market full of innovation and new technology, we strive to provide our customers the necessary tools and assistance they need to make informed decisions.  When it comes to LED lighting solutions, we want to make them simple to understand, effortless to adapt, and easy to use.  This is what we call "the Diode difference".

As we grow, so does our commitment to our customers. We actively listen and work to improve product features and designs by engineering our products to meet the needs of our customers. We specialize in both residential and commercial lighting products that are used in a variety of different applications and can transform any space into a work of art.  By customizing our product to fit your needs, the options are endless. We are excited to explore these opportunities with you.

Our web site, www.DiodeLED.com is continuously updated with new information about our product lines and accessories, which include specification sheets, wiring diagrams, educational tutorials, videos, and more!

We know you will enjoy our latest offers featured in this catalog and formally invite you to . . .

**"Experience the Diode Difference"**

**Apollo DMX Color Controller**
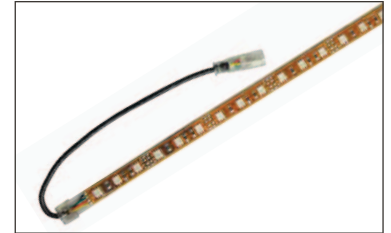(item #DI-0764)
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# LED Strip Light Collection

Known as tape light or ribbon light, Diode LED Strip Lights have it all. They are flexible, cuttable, dimmable, and low-profile, so they can be used virtually anywhere. Diode LED Strip Light is a 12V or 24V light source that draws less wattage than traditional incandescent light, making it an economical and energy-efficient alternative to traditional lighting. It comes with a 3M™ adhesive backing, which allows for easy mounting on a dry, clean surface. We offer a full line of LED strip lights that all operate in the same fashion, but vary in brightness, color, and application, to meet your individual needs.

**NEW** • EMBER Ambient Strip Light - A low output strip for paths and stairways

• FLUID VIEW Strip Light - Our standard strip

**NEW** • SIDEWINDER Vertical Strip Light - Light shines at a 90º angle from the strip

• BLAZE High Output Strip Light - Our most popular strip is twice as bright as FLUID VIEW

**NEW** • ULTRA BLAZE 24V High Output Strip Light - Extremely bright 24V task lighting

LED strip light can be used in all lighting situations, but especially:

• Kitchen cabinets / under cabinet task lighting
• Interior coves and nooks
• Display cases and shop windows
• Closets and pantries
• Soffits and hallways
• Architectural enhancements
• Staircase, step accents and toe kicks
• Presentations, light boxes, light tables, and exhibits
• Signs

# EMBER Ambient Strip Light

EMBER Ambient Strip Light is ideal for those in need of a soft, low light linear installation. This LED strip is perfect for lighting pathways, stairs, railings, or for ambient and subtle accent lighting. This LED tape comes with a 3M™ adhesive backing which allows easy mounting almost anywhere, and emits light with a 120 degree light beam angle.

The low profile of the EMBER Ambient Strip Light allows for out-of-sight installation in many discreet locations and applications, and it's even dimmable. The flexible design and efficiency of this low wattage strip lighting make it ideal for lighting:

- Stairways and railings
- Marker lighting
- Theaters and cinemas
- Pathways and walkways
- Ambient lighting
- Interior cove lighting

The EMBER Ambient Strip Light can be powered by either a Plug-In Adapter (p. 74) or Hard-Wired Driver (p. 72).The EMBER Ambient Strip Light can be dimmed by our in-wall REIGN 12V/24V Dimmer Switches (p. 73) or by the Diode LED Hard-Wired Dimmable Drivers (p. 76).



## Highlights

- **UL Listed**
- **Dimmable**
- **Field cuttable per UL 2108**
- Height: 0.1"
- Connectors: 3 foot bare lead wires on one end and a 12 inch white, female DC plug on the other end
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**

4" between cut points

Actual width
size shown

0.3"

1.3" between centers
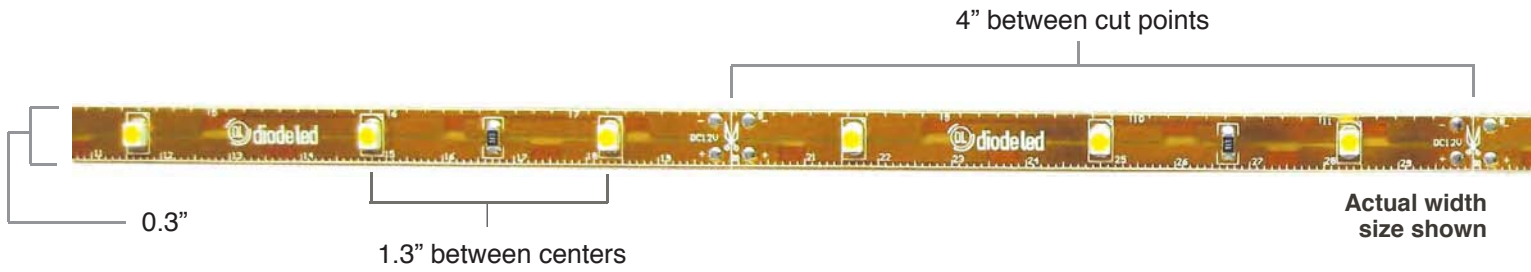
## Technical Specifications: EMBER Ambient Strip Light

| item # | length | color | color temp. | lumens / ft. | beam angle | power consumption / ft. | CRI | LEDs / ft. |
|--------|--------|-------|-------------|--------------|------------|-------------------------|-----|------------|
| DI-0080 | 16.4' | warm white | 2700k | 58 | 120° | 0.72W / 60mA | 75 | 9 |
| DI-0081 | 16.4' | cool white | 5000k | 58 | 120° | 0.72W / 60mA | 80 | 9 |

**Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**
See how this product compares with our other products on the comparison chart on page 86.

## Accessories

**Strip Light Splice Connector**
**3.4"** (item #DI-0732)
    Qty of 25 (item #DI-0732-25)
    Qty of 50 (item #DI-0732-50)
**2 ft.** (item #DI-0742)
    Qty of 25 (item #DI-0742-25)
    Qty of 50 (item #DI-0742-50)
**4 ft.** (item #DI-0743)
    Qty of 25 (item #DI-0743-25)
    Qty of 50 (item #DI-0743-50)
**6 ft.** (item #DI-0744)
    Qty of 25 (item #DI-0744-25)
    Qty of 50 (item #DI-0744-50)
**8 ft.** (item #DI-0745)
    Qty of 25 (item #DI-0745-25)
    Qty of 50 (item #DI-0745-50)

Connects EMBER Ambient Strip Light to a
Hard-Wired Driver.

**Strip-to-Strip Connector**
(item #DI-0701)  0.7" x 0.4" x 0.1"
Connects sections of non-wet location
EMBER Ambient Strip Light.

**Strip Light Bending Extension**
(item #DI-0722)  3" x 0.4"
Connects non-wet location single color
EMBER Ambient Strip Light sections with
a flexible joint with a bending range of 0° -
180°. See page 81 for more sizes.

**Strip Light DC Plug Connector**
(item #DI-0700)  5.4" x 0.4"
Connects non-wet location single color
EMBER Ambient Strip Light to a Plug-In
Adapter.

**Adapter Splice Cable - female**
(item #DI-0712F)  42" x 0.45"
When soldered to the EMBER Ambient
Strip Light, this splice cable provides a
connection to a Plug-In Adapter.

**Adapter Splice Cable - male**
(item #DI-0712M) 42" x 0.45"

**39 Inch DC Extension Cable**
(item #DI-0708)  39.4" x 0.5"
Creates an extension between any fixtures
or accessories that use DC plugs.

**DC Wire Plug**
female white (item #DI-1713F)
male white (item #DI-1713M)
1.6" x 0.6" x 0.5"
Converts two-strand wire to a DC plug
without soldering.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Strip Light to DC Plug
Connectors to one Plug-In Adapter.

# FLUID VIEW Strip Light

The FLUID VIEW Strip Light is a light fixture that has it all. It's flexible, field-cuttable every two inches to a custom length, and dimmable. It's extremely low-profile, at a tenth of an inch high and third of an inch wide, it can be used virtually anywhere. It's a 12V fixture that draws 1.44 Watts per foot, making it very economical. To top it off, it comes in a rainbow of colors: warm white, cool white, amber, pink, red, green, blue, and purple.

Each spool comes with both a DC plug and lead wires attached that allow for easy connection to a power source, whether a 12V Plug-In Adapter or Hard-Wired Driver, so it's plug-and-play. It comes with a 3M™ adhesive backing which allows for easy mounting on a clean, dry surface.

The FLUID VIEW Strip is applicable in all lighting situations like interior coves and nooks, cabinets, hallways, display cases, shop windows, and exhibits. Fluid View Strip Light is great for any close application lighting.

The FLUID VIEW Strip can be powered by either a Plug-In Adapter (p. 74) or Hard-Wired Driver (p. 72). And the FLUID VIEW Strip can be dimmed by our in-wall REIGN 12V/24V Dimmer Switches (p. 73) or by the Diode LED Hard-Wired Dimmable Drivers (p. 76).

**C UL US LISTED  RoHS Compliant**

## Highlights

- **UL Listed**
- **Dimmable**
- **Field cuttable per UL 2108**
- Height: 0.1"
- Connectors: 16.4 ft. spools come with 3 foot bare lead wires on one end and a 12 inch white, female DC plug on the other end; 100 ft. spools come with 3 foot bare lead wires on both ends
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**

2” between cut points



0.3”

0.65” between centers

**Actual width size shown**

## Technical Specifications: FLUID VIEW Strip Light

| item # | length | color | color temp. | lumens / ft. | beam angle | power consumption / ft. | CRI | LEDs / ft. |
|--------|--------|-------|-------------|--------------|------------|-------------------------|-----|------------|
| DI-0001 | 16.4’ | warm white | 2700k | 115 | 120° | 1.44W / 120mA | 75 | 18 |
| DI-0010 | 100’ | warm white | 2700k | 115 | 120° | 1.44W / 120mA | 75 | 18 |
| DI-0002 | 16.4’ | cool white | 5000k | 115 | 120° | 1.44W / 120mA | 80 | 18 |
| DI-0011 | 100’ | cool white | 5000k | 115 | 120° | 1.44W / 120mA | 80 | 18 |
| DI-0003 | 16.4’ | red | 625nm | 35 | 120° | 1.44W / 120mA | n/a | 18 |
| DI-0004 | 16.4’ | green | 525nm | 68 | 120° | 1.44W / 120mA | n/a | 18 |
| DI-0005 | 16.4’ | blue | 465nm. | 18 | 120° | 1.44W / 120mA | n/a | 18 |
| DI-0006 | 16.4’ | amber | 590nm | 35 | 120° | 1.44W / 120mA | n/a | 18 |
| DI-0007 | 16.4’ | purple | 435nm | 2.5 | 120° | 1.44W / 120mA | n/a | 18 |
| DI-0008 | 16.4’ | pink | 605nm | 45 | 120° | 1.44W / 120mA | n/a | 18 |

**Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**
See how this product compares with our other products on the comparison chart on page 86.

## Accessories



**Strip Light Splice Connector**
**3.4”** (item #DI-0732)
    Qty of 25 (item #DI-0732-25)
    Qty of 50 (item #DI-0732-50)
**2 ft.** (item #DI-0742)
    Qty of 25 (item #DI-0742-25)
    Qty of 50 (item #DI-0742-50)
**4 ft.** (item #DI-0743)
    Qty of 25 (item #DI-0743-25)
    Qty of 50 (item #DI-0743-50)
**6 ft.** (item #DI-0744)
    Qty of 25 (item #DI-0744-25)
    Qty of 50 (item #DI-0744-50)
**8 ft.** (item #DI-0745)
    Qty of 25 (item #DI-0745-25)
    Qty of 50 (item #DI-0745-50)

Connects FLUID VIEW Strip Light to a Hard-Wired Driver.

**Strip-to-Strip Connector**
(item #DI-0701)  0.7” x 0.4” x 0.1”
Connects sections of non-wet location single color FLUID VIEW Strip Light.

**Strip Light Bending Extension**
(item #DI-0722)  3” x 0.4”
Connects non-wet location single color FLUID VIEW Strip Light sections with a flexible joint with a bending range of 0° - 180°. See page 81 for more sizes.

**Strip Light DC Plug Connector**
(item #DI-0700)  5.4” x 0.4”
Connects non-wet location single color FLUID VIEW Strip Light to a Plug-In Adapter.

**Adapter Splice Cable - female**
(item #DI-0712F)  42” x 0.45”
When soldered to the FLUID VIEW Strip Light, this splice cable provides a connection to a Plug-In Adapter.

**Adapter Splice Cable - male**
(item #DI-0712M) 42” x 0.45”

**39 Inch DC Extension Cable**
(item #DI-0708)  39.4” x 0.5”
Creates an extension between any fixtures or accessories that use DC plugs.

**DC Wire Plug**
female white (item #DI-1713F)
male white (item #DI-1713M)
1.6” x 0.6” x 0.5”
Converts two-strand wire to a DC plug without soldering.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7” x 0.4”
**3-Way** (item #DI-0705) 8” x 0.6”
**5-Way** (item #DI-0707) 8” x 0.6”
Connects several Strip Light to DC Plug Connectors to one Plug-In Adapter.

# SIDEWINDER Vertical Strip Light

SIDEWINDER Vertical Strip Light's low profile and narrow width allows use in many discreet locations. The depth of the SIDEWINDER Vertical Strip Light is a mere 0.2 inches, so it will fit virtually anywhere and comes with a 3M™ adhesive backing that permits easy mounting. The flat-style 12V LEDs cast light sideways at a 90 degree angle from the strip surface instead of straight out like all other Diode LED strip lights.

The flexible and thin low-profile design and high-intensity LED lighting make it ideal for:

- Floorboard and stairway lighting
- Cove, closets and interior lighting
- Exhibit lighting
- Kitchen cabinet lighting
- Project lighting
- Close lighting task application

The SIDEWINDER Vertical Strip Light can be powered by either a Plug-In Adapter (p. 74) or Hard-Wired Driver (p. 72). And the SIDEWINDER Vertical Strip Light can be dimmed by our in-wall REIGN 12V/24V Dimmer Switches (p. 73) or by the Diode LED Hard-Wired Dimmable Drivers (p. 76).

C **UL** US
**LISTED**

**RoHS** compliant

## Highlights

- **UL Listed**
- **Dimmable**
- **Field cuttable per UL 2108**
- Height: 0.05"
- Connectors: 3 foot bare lead wires on one end and a 12 inch white, female DC plug on the other end
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**

0.65" between centers

↑ direction of light ↑

0.2"

2" between cut points

**Actual width size shown**
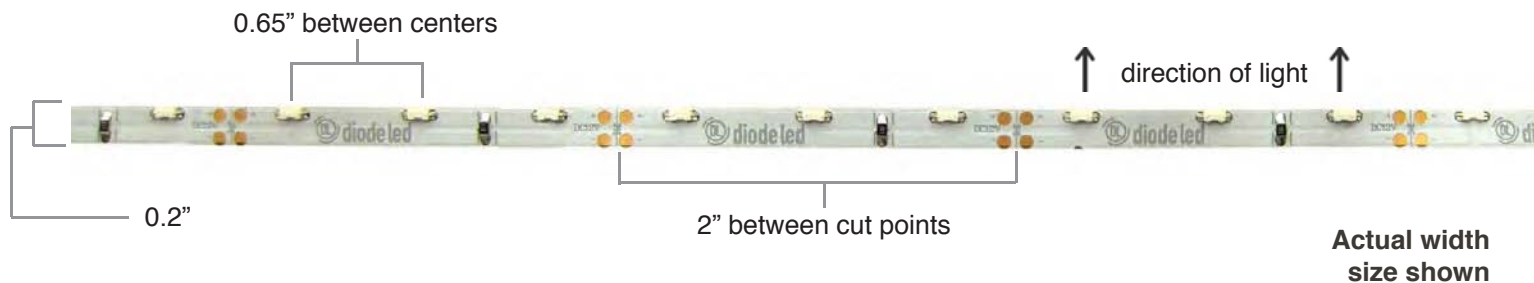
## Technical Specifications: SIDEWINDER Vertical Strip Light

| item # | length | color | color temp. | lumens / ft. | beam angle | power consumption / ft. | CRI | LEDs / ft. |
|--------|--------|-------|-------------|--------------|------------|------------------------|-----|-----------|
| DI-0025 | 16.4' | warm white | 2700k | 90 | 120° | 1.44W / 120mA | 75 | 18 |
| DI-0026 | 16.4' | cool white | 5000k | 90 | 120° | 1.44W / 120mA | 80 | 18 |

**Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**
The SIDEWINDER Vertical Strip Light is not compatible with strip light connectors and must be soldered at additional cut-points to connect to power. See how this product compares with our other products on the comparison chart on page 86.

## Accessories

**Two Strand Wire** per foot
18 gauge - white (item #DI-0770-F), per 250 ft. spool (item #DI-0770-S)
18 gauge - brown (item #DI-0771-F), per 250 ft. spool (item #DI-0771-S)
18 gauge - clear (item #DI-0772-F), per 250 ft. spool (item #DI-0772-S)
14 gauge - white (item #DI-0784-F), per 250 ft. spool (item #DI-0784-S)
16 gauge - white (item #DI-0785-F), per 250 ft. spool (item #DI-0785-S)
20 gauge - white (item #DI-0786-F), per 250 ft. spool (item #DI-0786-S)

This two-strand wire connects SIDEWINDER Vertical Strip Light to a power source, creates extensions between sections of SIDEWINDER Vertical Strip Light, and allows for parallel runs of SIDEWINDER Vertical Strip Light. Available by the foot or by the 250 foot spool. For surface use or in-cabinet installations only (not rated for behind wall applications).

**Adapter Splice Cable - female**
(item #DI-0712F)  42" x 0.45"
When soldered to the SIDEWINDER Vertical Strip Light, this splice cable provides a connection to a Plug-In Adapter.

**Adapter Splice Cable - male**
(item #DI-0712M) 42" x 0.45"

**REIGN 12V / 24V Dimmer Switches**
(page 73)
The REIGN Dimmer is connected between the 12V or 24V DC power supply and 12V or 24V LED fixture, and offers 100%-0% dimming. Limit of 100W.

**39 Inch DC Extension Cable**
(item #DI-0708)  39.4" x 0.5"
Creates an extension between any fixtures or accessories that use DC plugs.

**DC Wire Plug**
female white (item #DI-1713F)
male white (item #DI-1713M)
1.6" x 0.6" x 0.5"
Converts two-strand wire to a DC plug without soldering.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Strip Light to DC Plug Connectors to one Plug-In Adapter.

# BLAZE High Output Strip Light

BLAZE High Output Strip Light has twice as many LED chips as the FLUID VIEW Strip Light and offers twice the brightness. It has the same ultra-low profile as the FLUID VIEW strips, which means it will fit in almost any lighting installation. It is flexible, field cuttable every inch, and comes with a 3M™ adhesive backing that ensures easy mounting on any clean, flat, dry surface.

This flat LED strip emits light in a 120° light beam angle. The BLAZE High Output Strip is packed with high power surface mount diode (SMD) LEDs that combine to make a brighter, cheaper, and warmer light than almost any fluorescent or incandescent fixture. There is no scalloping, just a completely even line of light.

Although BLAZE strips are twice as bright as standard strips, they use a mere 2.9 Watts of electricity per foot! This strip features LED lights that, unlike halogen fixtures, emit very little heat. The energy efficiency, flexible design, and high intensity of LED strip lighting make it optimal for these home and commercial lighting situations:

- Kitchen cabinet, under cabinet, shelf, and case lighting
- Exhibit, presentation, and project lighting
- Close application task lighting
- Cove and interior accent lighting
- Shop windows, window displays, display case lights, and uplighting
- Light boxes and interior signage

## Highlights

- **UL Listed**
- **Dimmable**
- **Field cuttable per UL 2108**
- Height: 0.1"
- Connectors: 16.4 ft. spools come with 3 foot bare lead wires on one end and a 12 inch white, female DC plug on the other end; 100 ft. spools come with 3 foot bare lead wires on both ends
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**

1" between cut points

0.3"

0.3" between centers

**Actual width size shown**
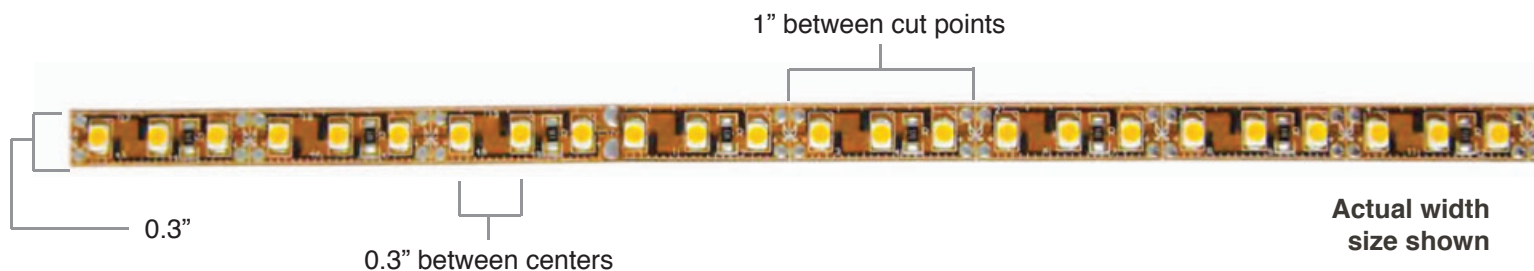
## Technical Specifications: BLAZE High Output Strip Light

| item # | length | color | color temp. | lumens / ft. | beam angle | power consumption / ft. | CRI | LEDs / ft. |
|--------|--------|-------|-------------|--------------|------------|-------------------------|-----|------------|
| DI-0090 | 16.4' | warm white | 2700k | 240 | 120° | 2.9W / 240mA | 75 | 36 |
| DI-0012 | 100' | warm white | 2700k | 240 | 120° | 2.9W / 240mA | 75 | 36 |
| DI-0091 | 16.4' | cool white | 5000k | 240 | 120° | 2.9W / 240mA | 80 | 36 |
| DI-0013 | 100' | cool white | 5000k | 240 | 120° | 2.9W / 240mA | 80 | 36 |

**Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**
See how this product compares with our other products on the comparison chart on page 86.

## Accessories

**Strip Light Splice Connector**
**3.4"** (item #DI-0732)
        Qty of 25 (item #DI-0732-25)
        Qty of 50 (item #DI-0732-50)
**2 ft.** (item #DI-0742)
        Qty of 25 (item #DI-0742-25)
        Qty of 50 (item #DI-0742-50)
**4 ft.** (item #DI-0743)
        Qty of 25 (item #DI-0743-25)
        Qty of 50 (item #DI-0743-50)
**6 ft.** (item #DI-0744)
        Qty of 25 (item #DI-0744-25)
        Qty of 50 (item #DI-0744-50)
**8 ft.** (item #DI-0745)
        Qty of 25 (item #DI-0745-25)
        Qty of 50 (item #DI-0745-50)

Connects BLAZE High Output Strip Light to a Hard-Wired Driver.

**Strip-to-Strip Connector**
(item #DI-0701)  0.7" x 0.4" x 0.1"
Connects sections of non-wet location single color BLAZE High Output Strip Light.

**Strip Light Bending Extension**
(item #DI-0722)  3" x 0.4"
Connects non-wet location single color BLAZE High Output Strip Light sections with a flexible joint with a bending range of 0° - 180°. See page 81 for more sizes.

**Strip Light DC Plug Connector**
(item #DI-0700)  5.4" x 0.4"
Connects non-waterproof single color BLAZE High Output Strip Light to a Plug-In Adapter.

**Adapter Splice Cable - female**
(item #DI-0712F)  42" x 0.45"
When soldered to the BLAZE High Output Strip Light, this splice cable provides a connection to a Plug-In Adapter.

**Adapter Splice Cable - male**
(item #DI-0712M) 42" x 0.45"

**1 Meter DC Extension Cable**
(item #DI-0708)  40" x 0.5"
Creates an extension between any fixtures or accessories that use DC plugs.

**DC Wire Plug**
female white (item #DI-1713F)
male white (item #DI-1713M)
1.6" x 0.6" x 0.5"
Converts two-strand wire to a DC plug without soldering.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Strip Light to DC Plug Connectors to one Plug-In Adapter.

# ULTRA BLAZE In 12V or 24V
# High Output Strip Light



**LISTED**

ULTRA BLAZE High Output Strip Light is a super bright LED strip that is 50% brighter than BLAZE High Output Strip Light and four times as bright as FLUID VIEW Strip Light. The ULTRA BLAZE High Output Strip Light is packed with high power 5050 tri-chip surface mount diode (SMD) LEDs that combine to make a brighter, more value-driven, and warmer light than any fluorescent or incandescent fixture.

This LED strip light is very low profile, flexible, field-cuttable every two inches, and comes with a 3M™ adhesive backing that ensures easy mounting virtually anywhere. The flat LED strip emits light in a wide 120° light beam angle. This LED strip light is sold in a 20 foot spool with a white surface PCB instead of the standard copper PCB of most of our other LED strip lights.

ULTRA BLAZE High Output Strip Light is energy-saving, low heat, and safe, so it's optimal for these indoor home and retail lighting situations:

- Shop windows, window displays, and display case lights
- Light boxes, interior sign and signage light
- Display case lighting
- Exhibit, presentation, and project lighting
- Cabinet and shelf lighting
- Task lighting
- Indirect home lighting

## Highlights

- **UL Listed**
- **Dimmable**
- **Field cuttable per UL 2108**
- **Voltage: 12V or 24V DC**
  **(see details on the next page)**
- Height: 0.1"
- Connectors: 3 foot bare lead wires on one end and a 12 inch white, female DC plug on the other end.
- White PCB allows for a more reflective and higher lumen efficient output, while the copper finish blends into darker envionments.
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each maximum run of strip light requires a dedicated line from the power supply to avoid voltage drop.**
  **12V maximum run: 20 feet**
  **24V maximum run: 40 feet**

**12V ULTRA BLAZE**

0.4" Wide

4" between cut points

2" between cut points

0.65" between centers

**Actual width size shown**
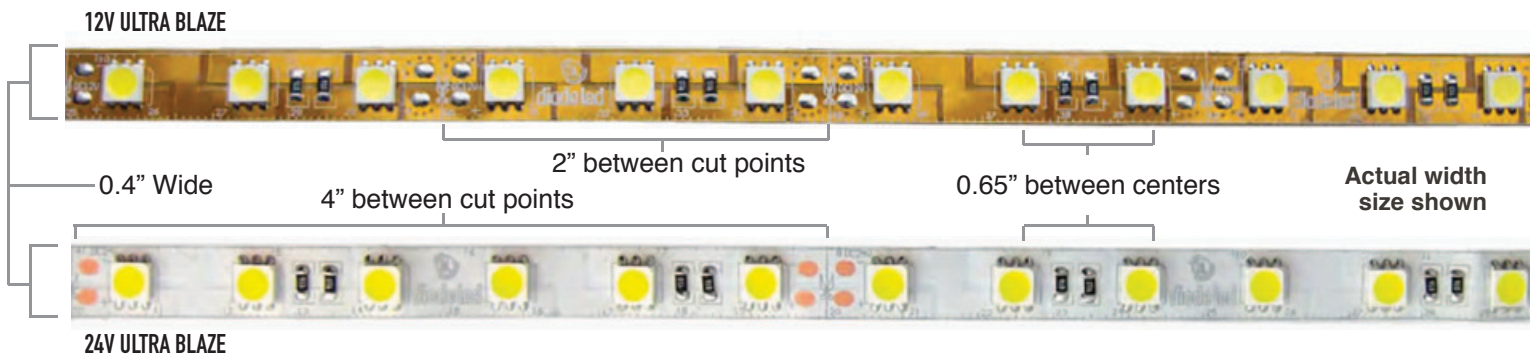
**24V ULTRA BLAZE**

## Technical Specifications: ULTRA BLAZE 12V High Output Strip Light

| item # | length | color | color temp. | lumens / ft. | beam angle | voltage | power consumption / ft. | CRI | LEDs / ft. |
|--------|--------|-------|-------------|--------------|------------|---------|-------------------------|-----|------------|
| DI-0094 | 16.3' | warm white | 2700k | 360 | 120° | 12V DC | 4.4W / 363mA | 75 | 18 |
| DI-0018 | 100' | warm white | 2700k | 360 | 120° | 12V DC | 4.4W / 363mA | 75 | 18 |
| DI-0095 | 16.3' | cool white | 5000k | 360 | 120° | 12V DC | 4.4W / 363mA | 80 | 18 |
| DI-0019 | 100' | cool white | 5000k | 360 | 120° | 12V DC | 4.4W / 363mA | 80 | 18 |

## Technical Specifications: ULTRA BLAZE 24V High Output Strip Light

| item # | length | color | color temp. | lumens / ft. | beam angle | voltage | power consumption / ft. | CRI | LEDs / ft. |
|--------|--------|-------|-------------|--------------|------------|---------|-------------------------|-----|------------|
| DI-0120 | 20' | warm white | 2700k | 360 | 120° | 24V DC | 4.4W / 180mA | 75 | 18 |
| DI-0014 | 100' | warm white | 2700k | 360 | 120° | 24V DC | 4.4W / 180mA | 75 | 18 |
| DI-0121 | 20' | cool white | 5000k | 360 | 120° | 24V DC | 4.4W / 180mA | 80 | 18 |
| DI-0015 | 100' | cool white | 5000k | 360 | 120° | 24V DC | 4.4W / 180mA | 80 | 18 |

## Accessories

**ULTRA BLAZE Splice Connector**
**3.4"** (item #DI-0735)
    Qty of 25 (item #DI-0735-25)
    Qty of 50 (item #DI-0735-50)
**2 ft.** (item #DI-0736)
    Qty of 25 (item #DI-0736-25)
    Qty of 50 (item #DI-0736-50)
**4 ft.** (item #DI-0737)
    Qty of 25 (item #DI-0737-25)
    Qty of 50 (item #DI-0737-50)
**6 ft.** (item #DI-0738)
    Qty of 25 (item #DI-0738-25)
    Qty of 50 (item #DI-0738-50)
**8 ft.** (item #DI-0739)
    Qty of 25 (item #DI-0739-25)
    Qty of 50 (item #DI-0739-50)

Connector for Hard-Wired installations.

**ULTRA BLAZE Bending Extension**
**3 in.** (item #DI-0733)
**2 ft.** (item #DI-0795)
**4 ft.** (item #DI-0796)
**6 ft.** (item #DI-0797)
**8 ft.** (item #DI-0798)
Connects non-waterproof single color ULTRA BLAZE High Output Strip Light sections with a flexible joint with a bending range of 0° - 180°.

**ULTRA BLAZE Strip-to-Strip Connector**
(item #DI-0740)  0.7" x 0.4" x 0.1"
Connects sections of non-waterproof single color ULTRA BLAZE High Output Strip Light.

**ULTRA BLAZE DC Plug Connector**
(item #DI-0721)  5.4" x 0.4"
Connects non-waterproof single color ULTRA BLAZE High Output Strip Light to a Plug-In Adapter.

**39 Inch DC Extension Cable**
(item #DI-0708)  39.4" x 0.5"
Creates an extension between any fixtures or accessories that use DC plugs.

**Adapter Splice Cable - male**
(item #DI-0712M)  42" x 0.45"

**Adapter Splice Cable - female**
(item #DI-0712F)  42" x 0.45"
When soldered to the Strip Light, this splice cable provides a connection to a Plug-In Adapter.

# Strip Light L and T Sections

These L- and T-shaped strip light sections create corners and junctions with the use of the Strip-to-Strip Connector (item #DI-0701) or by soldering the sections together.
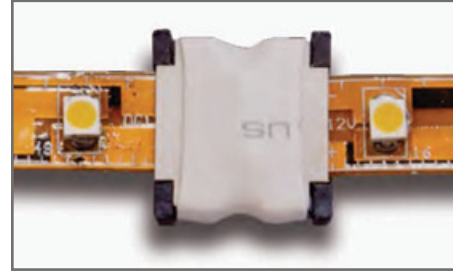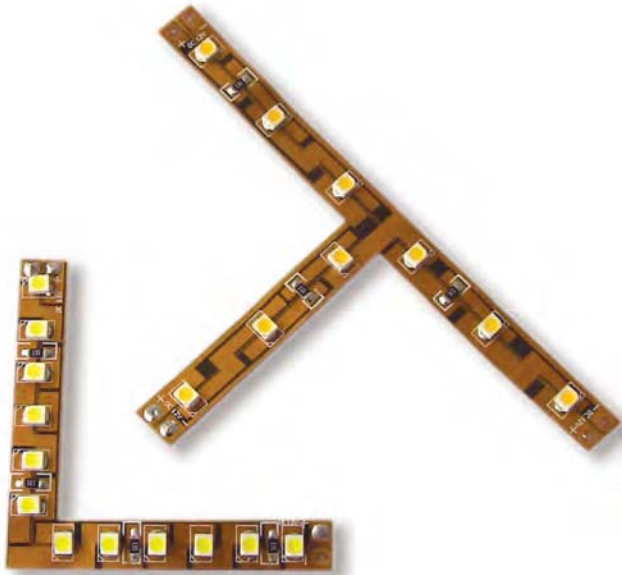




Shown with the Strip-to-Strip Connector (item #DI-0701)



| item # | strip type | shape | dimensions | color | color temp. | lumens | power consumption / ft. | # of LEDs |
|--------|-----------|-------|------------|-------|-------------|--------|------------------------|-----------|
| DI-0001-L | FLUID VIEW | L | 2" x 2" x 0.3" | warm white | 2700k | 40 | 1W / 83mA | 6 |
| DI-0002-L | FLUID VIEW | L | 2" x 2" x 0.3" | cool white | 5000k | 40 | 1W / 83mA | 6 |
| DI-0090-L | BLAZE | L | 2" x 2" x 0.3" | warm white | 2700k | 78 | 2W / 167mA | 12 |
| DI-0091-L | BLAZE | L | 2" x 2" x 0.3" | cool white | 5000k | 78 | 2W / 167mA | 12 |
| DI-0001-T | FLUID VIEW | T | 4" x 2.1" x 0.3" | warm white | 2700k | 58 | 1W / 83mA | 9 |
| DI-0002-T | FLUID VIEW | T | 4" x 2.1" x 0.3" | cool white | 5000k | 58 | 1W / 83mA | 9 |
| DI-0090-T | BLAZE | T | 4" x 2.1" x 0.3" | warm white | 2700k | 117 | 2W / 167mA | 18 |
| DI-0091-T | BLAZE | T | 4" x 2.1" x 0.3" | cool white | 5000k | 117 | 2W / 167mA | 18 |

*Warning: Please note the polarity of the Strip Light L Section when configuring your installation (see below), and be sure match + with + and - with - .*
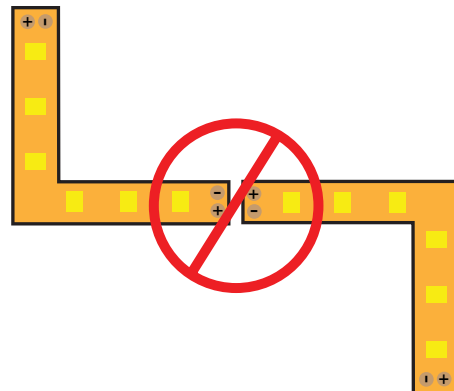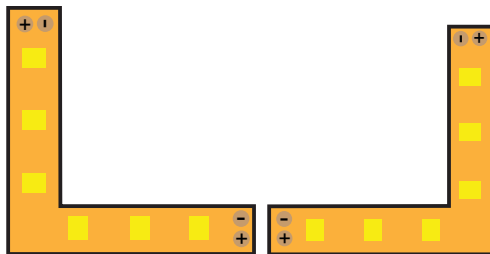
# LED Strip Light Kits

We offer LED Light kits as a quick and easy way to get everything you need for an LED lighting installation. Each plug-and-play kit includes LED lights, a Plug-In Adapter, an Inline Dimmer Switch or Inline On/Off Switch, and assorted DC connectors that help give you a maximum of installation options. These are self-contained kits and need no special tools for assembly.

Control your environment in minutes!

- *Plug-and-play*
- *Do it yourself*
- *Minutes to assemble*
- *No tools required*
- *Strip has 3M™ adhesive backing*

**BLAZE High Output
16 Foot Strip Light Kit**
warm white (item #DI-0189)
cool white (item #DI-0190)

**Includes:**
1 x 16.4' spool BLAZE Strip
1 x Inline Dimmer Switch
1 x 60 Watt Plug-In Adapter
1 x 39 Inch DC Extension Cable
1 x wiring diagram
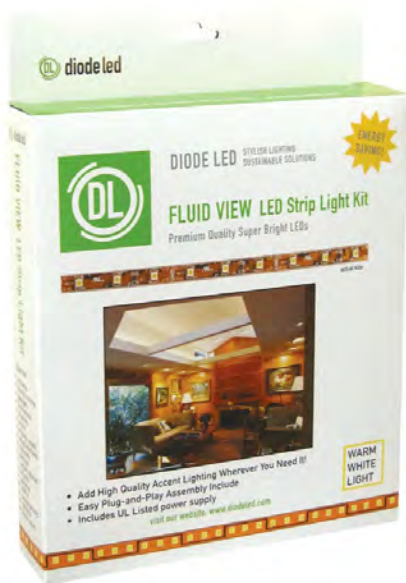
**FLUID VIEW
16 Foot Strip Light Kit**
warm white (item #DI-0187)
cool white (item #DI-0188)

**Includes:**
1 x 16.4' spool FLUID VIEW Strip
1 x Inline On/Off Switch
1 x 36 Watt Plug-In Adapter
1 x 39 Inch DC Extension Cable
1 x wiring diagram

**BLAZE High Output
1 Foot Strip Light Kit**
warm white (item #DI-0191)

**Includes:**
1 x 1 foot section of BLAZE Strip
1 x 39 Inch DC Extension Cable
1 x Inline On/Off Switch
1 x 12 Watt Plug-In Adapter
1 x wiring diagram

**2700k**

*Customize the color of your life!*

**5500k**

# K–Range Tunable Color Strip Light

K-Range Tunable Color Strip Light gives you total control over the white color temperature of your LED lighting. With the K-Range Dual Slide Switch you can choose the exact shade of white light for your LED lighting, as well as dim your lights from 100% to 5%. This strip light enables you to set up dimmable, color-temperature-controlled white LED lights.

The K-Range Tunable Strip Light offers full tuning of color temperature, from warm white (2700k) to cool white (5500k) with every color temperature in between. This strip uses a mix of warm white, neutral white, and cool white LED's, which the K-Range Dual Slide 12V Switch dims and brightens to allow you to smoothly and easily transition between color temperatures.

K-Range Tunable Color Strip Light comes in one foot sections, and a maximum of 16 one-foot strip sections can be seamlessly connected together in a continuous sequence. Runs longer than 16 feet can be configured, but each run needs to be hard-wired back to the power supply. These additional accessories are essential for a K-Range Strip installation: the K-Range Dual Slide 12V Switch (DI-1100) and one K-Range Strip-to-Strip Connector (DI-1102) for each foot of strip light. Each strip comes with 3M™ adhesive tape on the back for easy mounting.

The K-Range Tunable Color Strip Light can be powered by either a 12V Non-Dim-mable Hard-Wired Driver (p. 72) or a 12V Plug-In Adapter (p. 24). The K-Range Dual Slide Switch (p. 21) fits into a standard light switch wall outlet and has two lead wires to connect to 12V DC power.

**c UL us LISTED**    **RoHS compliant**

## Highlights

- **UL Listed**
- **Dimmable**
- Length: 12"
- Width: 0.4" (standard), 0.5" (high density)
- Height: 0.1"
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Not compatible with Strip Light Channels**
- **Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**

**Standard Density Strip (DI-1101)**

4" between cut points



0.4"

0.45" between centers

strip length = 12"

**Actual width size shown**

**High Density Strip (DI-1106)**

1.5" between cut points



0.5"

strip length = 12"
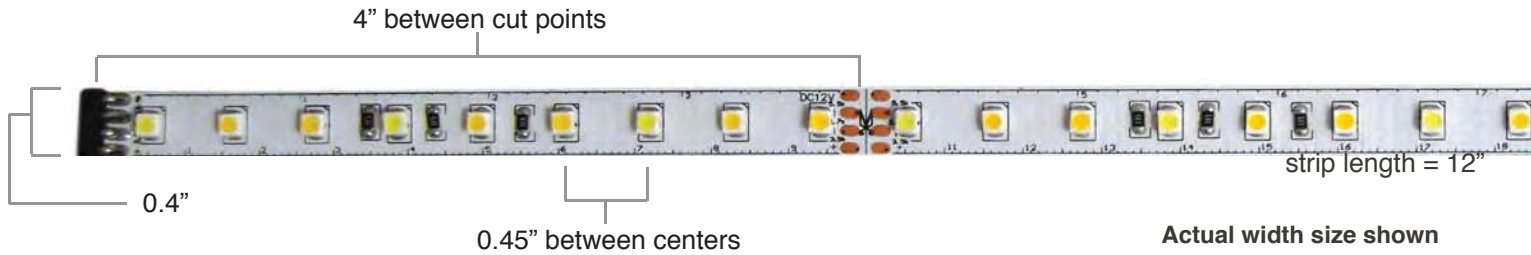
## Technical Specifications: K-Range Tunable Color Strip Light

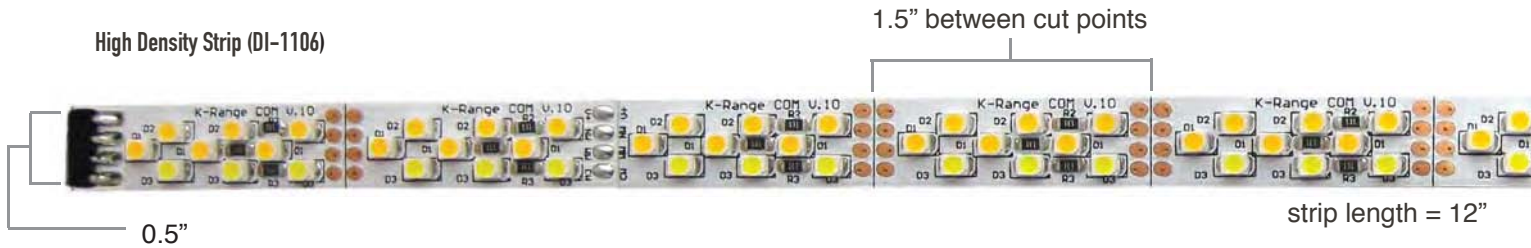| item # | type | color temp. | lumens / ft. | beam angle | power consumption / ft. | CRI | LEDs / ft. | max. run |
|--------|------|-------------|--------------|------------|-------------------------|-----|------------|----------|
| DI-1101 | standard | 2700k - 5500k | 162-189 | 120° | 2.2W / 180mA | 70-75 | 27 | 16 ft. |
| DI-1106 | high density | 2700k - 5500k | 432-504 | 120° | 5.8W / 480mA | 70-75 | 72 | 16 ft. |

**Each 16.4 foot section requires a dedicated line from the power supply to avoid voltage drop.**

## Accessories

**K-Range Dual Slide 12V Switch**
4.2" x 2.2" x 1.7"
white (item #DI-1100-W)
The right slider of this switch controls the color temperature of K-Range Tunable Color Strip Light while the left slider dims the strip light from 100% to 5%. The switch includes a K-Range Strip Light to Controller Connector (item #DI-1105) that plugs directly into the K-Range Tunable Color Strip Light or the K-Range Strip Light 39 Inch Extension (item #DI-1103), and two lead wires to connect to 12V power. **ETL Listed. Conforms to UL 508.**

**K-Range Strip-to-Strip Connector**
(item #DI-1102)  0.45" x 0.1"
Seamlessly connects two sections of K-Range Tunable Color Strip Light. *One connector is included with each foot of strip light.*

**K-Range Strip Light to Controller Connector**
(item #DI-1105)  6" x 0.45" x 0.15"
Connects the initial section of K-Range Tunable Color Strip Light to the K-Range Dual Slide Switch (item #DI-1100-W). *One connector is included with each switch.*

**K-Range Splitter Plug**
(item #DI-1104)  0.45" x 0.1"
Connects three sections of K-Range Tunable Color Strip Light to one power source. 60 Watt limit.
For use with the K-Range Strip Light Extension. (item #DI-1103)

**K-Range Strip Light 39 Inch Extension**
(item #DI-1103)  39.4" x 0.45" x 0.15"
Creates an extension between K-Range Tunable Color Strip Light sections, or between the K-Range Dual Slide Switch (item #DI-1100-W) and the K-Range Tunable Color Strip Light.

**22/4 Wire**
per foot (item #DI-0769-F)  0.4" x 0.1"
This four-strand, 22 gauge wire creates extensions between sections of K-Range Tunable Color Strip Light. Available by the foot.

# Strip Light Channels



**NOOK** (45°) (item #DI-1052), 39.4" x 0.7" x 0.7"
**ORB** (round) (item #DI-1051), 39.4" x 0.7" x 0.6"
**QUAD** (square) (item #DI-1050), 39.4" x 0.6" x 0.5"
**SLIM** (low profile) (item #DI-1053), 39.4" x 0.6" x 0.24"

Strip Light Channels protect and provide light diffusion for EMBER Ambient, FLUID VIEW, BLAZE, SIDEWINDER, ULTRA BLAZE, SPECTRUM RGB, and DAZZLE High Output RGB Strip Lights. They are not compatible with K-RANGE Tunable Color Strip Light. The sturdy but lightweight matte anodized aluminum Channels are available in four versions: the QUAD is a square-shaped channel that mounts flush on a surface; the ORB has a rounded shape that lets you adjust the angle of the channel; the NOOK has a right-angled shape that allows for mounting in a corner so that light shines at a 45° angle; and the SLIM is a low-profile channel. Strip Light Channels can be installed on a flat horizontal or vertical surface with Mounting Clips, or sealed and hung from a ceiling using Extended Hanger End Caps. Choose a Frosted Channel Cover to diffuse and soften the illumination from the strip light, or a Clear Channel Cover to just shield the strip light from dust. Channels are cuttable and can be mounted end to end to any total length.

*Channels are sold per piece. Channel Covers, End Caps, and Mounting Clips are sold separately.*

**FROSTED**
**(65% transparent)**

**CLEAR**
**(85% transparent)**
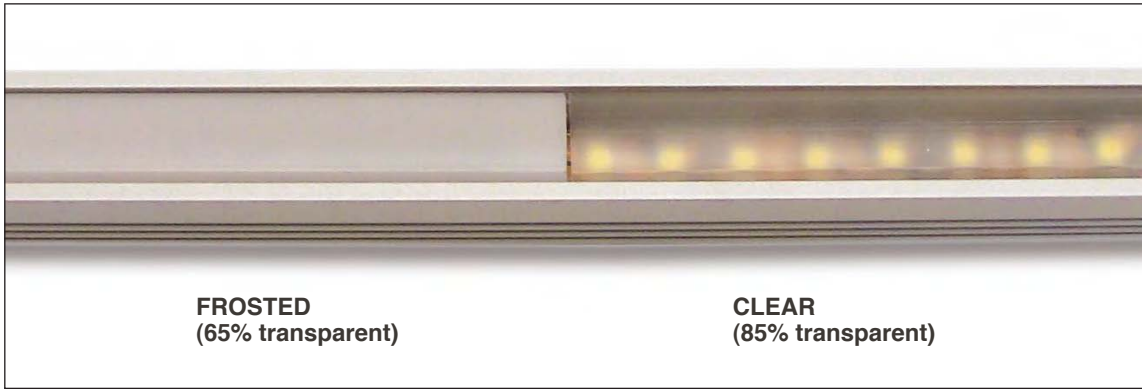
## Strip Light Channel Cover

**Strip Light Channel Cover**
39.4" x 0.4"
Frosted (item #DI-1060), Clear (item #DI-1061)

The Frosted Strip Light Channel Cover softens the illumination from the strip light, and eliminates spots and shadows while protecting your lights. The Clear Channel Cover shields the strip light from dust, but doesn't fully diffuse the light. Both Channel Covers give strip light a professional look and make them easy to clean. Both Channel Covers are easy to install: just slide it into the existing slot in the Strip Light Channel. Channel covers are cuttable with scissors.

*Channel Covers are sold per piece. Channels, End Caps, and Mounting Clips are sold separately.*

*It is recommended that adequate airflow and heatsink be taken into account in the application and installation of this product.*

## Strip Light Channel Hardware

**Strip Light Channel hardware**
End Caps provide a seal for Strip Light Channels. Extended Hanger End Caps seal and provide a hanger mechanism for hanging the channel from a ceiling: each Extended Hanger End Cap features a hole through which hanger wire can be strung. Mounting Clips help securely mount Strip Light Channels on flat surfaces. A pair of End Caps is necessary for each installation. *All Strip Light Channel End Caps and Mounting Clips are sold per piece, separately from Channels and Channel Covers.*

QUAD Channel End Cap
(item #DI-1080)  0.6" x 0.5" x 0.4"

ORB Channel End Cap
(item #DI-1081)  0.6" x 0.7" x 0.4"

NOOK Channel End Cap
(item #DI-1082)  0.7" x 0.7" x 0.4"

SLIM Channel End Cap
(item #DI-1085) 0.6" x 0.37" x 0.24"

SLIM Channel Hanger End Cap
(item #DI-1086) 0.6" x 0.7 x 0.24"

QUAD Extended Hanger End Cap
(item #DI-1083)  0.6" x 0.5" x 0.8"

ORB Extended Hanger End Cap
(item #DI-1084)  0.6" x 0.7" x 0.8"

ORB / QUAD / SLIM Mounting Clip
(item #DI-1070)  0.8" x 0.6" x 0.3"

NOOK 45° Mounting Clip
(item #DI-1071)  0.8" x 0.8" x 0.3"

# Wet Location LED Strip Light Collection

Wet Location Strip Light is a commercial-grade waterproof strip designed for both outdoor and indoor home and business use. The strip light is the same as the dry location strip, but is protected by water resistant silcone for a variety of applications where water is factor. It has a wet location rating of IP68 and is not recommended in submersible installations. Drawing only a few Watts of power per foot, these strips are dimmable and extremely energy-efficient. FLUID VIEW and BLAZE Wet Location Strip Lights are only a quarter inch high by a third of an inch wide, so they can be installed virtually anywhere.

- FLUID VIEW Wet Location Strip Light - Our standard strip
- BLAZE Wet Location High Output Strip Light - Our most popular strip is twice as bright as FLUID VIEW

A wide variety of outdoor and indoor locations can be lit with our wet location strip lights:

- Boats and yachts (no additional power supply needed)
- Automotive (no additional power supply needed)
- Restaurants and retail stores
- Exterior and interior decorative and accent lighting
- Garden, deck, and patio lighting
- Wine cellars (no UV emissions and low heat)
- Outdoor event lighting
- Pathways, toe kicks, and stairways

**Not recommended as submersible or for use in or around treated, chlorinated or salt water. Please see individual Product Specification Sheets for complete details at www.DiodeLED.com.**

# FLUID VIEW Wet Location Strip Light

FLUID VIEW Wet Location Strip Light is commercial-grade strip designed for outdoor and indoor home and business use and is waterproof (but not submersible) with a wet location rating of IP 68. Drawing only 1.44 watts of power per foot, these dimmable strips are extremely energy-efficient. This flat strip is only a quarter inch high by a third of an inch wide, so it can be installed virtually anywhere.

Boat owners find FLUID VIEWs great for onboard deck lighting, galleys, and sleeping quarters. Automotive experts use them for footwell illumination, in the glove box, under the chassis, or even under the hood. These strip lights are ideal for restaurants and retail stores; decorative and accent lighting; garden, deck, and patio lighting; boats and camping. They can be used for lighting art, food, and wine cellars (no UV emissions and low heat); trade show exhibits and outdoor tent lighting; under cabinet lighting, bookshelves, cupboards, and drawers. They also light pathways, stairways, and architectural models.

For simple assembly, connect the strip to our Waterproof Plug to DC Adapter Connector (DI-0710) and a Plug-In Adapter (p. 74). Each spool comes with **a pair of Waterproof Solder Connectors** to connect the strip to a Hard-Wired Driver. The FLUID VIEW can also be powered by any of our hard-wired dimmable drivers (p. 76) which connect to household wiring and a 120V AC dimmer. The wet location FLUID VIEW is installed by simply mounting it where you wish with the **9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair that are included** with each spool.

*Not recommended as submersible or for use in or around treated, chlorinated or salt water.*

## Highlights

- **UL Listed**
- **Dimmable**
- Height: 0.25"
- Connector: 4" waterproof plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Lamp Life: 50,000 hours
- 9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair are included with each spool.
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply to avoid voltage drop.**

2" between cut points

connector = 4"

0.4"

0.65" between centers

Actual width size shown

## Technical Specifications: FLUID VIEW Wet Location Strip Light

| item # | length | color | color temp. | lumens / ft. | beam angle | power consumption / ft. | IP rating | CRI | LEDs / ft. |
|--------|--------|-------|-------------|--------------|------------|--------------------------|-----------|-----|------------|
| DI-0051 | 9.5' | warm white | 2700k | 115 | 120° | 1.44W / 120mA | IP68 | 75 | 18 |
| DI-0052 | 9.5' | cool white | 5000k | 115 | 120° | 1.44W / 120mA | IP68 | 80 | 18 |
| DI-0053 | 9.5' | red | 625nm | 35 | 120° | 1.44W / 120mA | IP68 | n/a | 18 |
| DI-0054 | 9.5' | green | 525nm | 68 | 120° | 1.44W / 120mA | IP68 | n/a | 18 |
| DI-0055 | 9.5' | blue | 465nm | 18 | 120° | 1.44W / 120mA | IP68 | n/a | 18 |
| DI-0056 | 9.5' | amber | 590nm | 35 | 120° | 1.44W / 120mA | IP68 | n/a | 18 |
| DI-0057 | 9.5' | purple | 435nm | 2.5 | 120° | 1.44W / 120mA | IP68 | n/a | 18 |
| DI-0058 | 9.5' | pink | 605nm | 45 | 120° | 1.44W / 120mA | IP68 | n/a | 18 |

**Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply to avoid voltage drop.**

See how this product compares with our other products on the comparison chart on page 86.

## Accessories

**Waterproof Plug to DC Adapter Connector**
**female** (item #DI-0710F)  7.5" x 0.4"
**male** (item #DI-0710M)  7.5" x 0.3"
Connects single color FLUID VIEW Wet Location Strip Light to a Plug-In Adapter and to DC accessories.

**Waterproof Male to Female Extension Cables**
Available Lengths: **6"** (item #DI-0757),
**12"** (item #DI-0758), **24"** (item #DI-0759),
**39"** (item #DI-0709)
Connector Width: 0.3"
Creates an extension between FLUID VIEW Wet Location Strip Light sections.

**Additional Wet Location Strip Light Mounting Clips**
(item #DI-0754) 0.9" x 0.2" x 0.2"
Qty of 10 clips and 20 Phillips head screws.
(9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair are included with each spool.)

**Wet Location Strip Light Sealing Kit**
(item #DI-0762)
caps: 0.9" x 0.2" x 0.2"
Includes 10 end caps (item #DI-0755) and one 1.5 oz. tube of sealant (item #DI-0756).

**Waterproof Splitter Cable**
2-way (item #DI-0804)
3-way (item #DI-0805)
5-way (item #DI-0806)
8" x 1" x 0.3"
Connects several sections of single color FLUID VIEW Wet Location Strip Light to one power source.

**Waterproof Solder Connector Pair**
(item #DI-0725)  4.7" x 0.3"
Connects FLUID VIEW Wet Location Strip Light to a Hard-Wired Driver.
One pair included with each spool.

**Adapter Splice Cable - female**
(item #DI-0712F)  42" x 0.45"
Connects FLUID VIEW Wet Location Strip Light to a Hard-Wired Driver without cutting wires.

**Adapter Splice Cable - male**
(item #DI-0712M) 42" x 0.45"

# BLAZE Wet Location High Output Strip Light

BLAZE Wet Location High Output Strip Light has twice as many LED chips as the FLUID VIEW Strip Light, so it offers twice the brightness. It has the same ultra-low profile as the FLUID VIEW strips, which means it will fit in almost any lighting installation. This flat strip is only a quarter inch high by a third of an inch wide, so it can be installed in many small or difficult locations.

Although BLAZE Wet Location High Output Strip Lights are twice as bright as standard strips, they use a mere 2.9 Watts of electricity per foot! This strip features LED lights that, unlike halogen fixtures, emit very little heat. The energy efficiency, flexible design, and high intensity of LED strip lighting make it optimal for these home and commercial lighting situations:

- Kitchen cabinet, under cabinet, shelf, and case lighting
- Exhibit, presentation, and project lighting
- Decks, porches, patios, gardens, trellises, gazebos, and steps
- Task, cove, and interior accent lighting
- Shop windows, window displays, display case lights, and uplighting
- Light boxes and interior signage

Each spool comes with **a pair of Waterproof Solder Connectors** to connect the strip to a Hard-Wired Driver. The BLAZE Wet Location High Output Strip Light can also be powered by any of our hard-wired dimmable drivers (p. 26) which connect to household wiring and a 120V AC dimmer. This strip light is installed by simply mounting it where you wish with the **9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair that are included** with each spool. *Not recommended as submersible or for use in or around treated, chlorinated or salt water.*

### Highlights

- **UL Listed**
- **Dimmable**
- Height: 0.25"
- Connector: 4" waterproof plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Lamp Life: 50,000 hours
- 9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair are included with each spool.
- **Each 19 foot section (two 9.5 foot spools) needs to be separately wired to the power supply to avoid voltage drop.**
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

connector = 4"

1" between cut points

0.4"

0.3" between centers

**Actual width size shown**
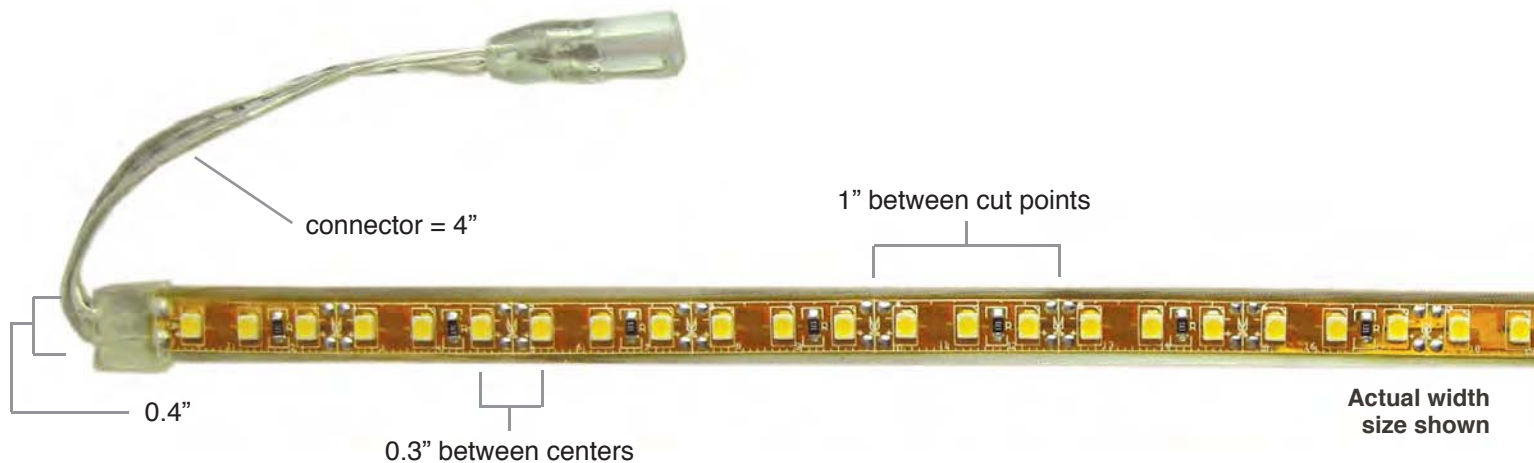
## Technical Specifications: BLAZE Wet Location High Output Strip Light

| item # | length | connector type | color | color temp. | lumens / ft. | power consumption / ft. | IP rating | CRI | LEDs / ft. |
|--------|--------|----------------|-------|-------------|--------------|-------------------------|-----------|-----|------------|
| DI-0160 | 9.5' | waterproof | warm white | 2700k | 240 | 2.9W / 240mA | IP68 | 75 | 36 |
| DI-0161 | 9.5' | waterproof | cool white | 5000k | 240 | 2.9W / 240mA | IP68 | 80 | 36 |

**Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply to avoid voltage drop.**

See how this product compares with our other products on the comparison chart on page 86.

## Accessories



**Waterproof Plug to DC Adapter Connector**
**female** (item #DI-0710F)  7.5" x 0.4"
**male** (item #DI-0710M)  7.5" x 0.3"
Connects single color BLAZE Wet Location Strip Light to a Plug-In Adapter and to DC accessories.



**Waterproof Male to Female Extension Cables**
Available Lengths: **6"** (item #DI-0757),
**12"** (item #DI-0758), **24"** (item #DI-0759),
**39"** (item #DI-0709)
Connector Width: 0.3"
Creates an extension between BLAZE Wet Location Strip Light sections.



**Additional Wet Location Strip Light Mounting Clips**
(item #DI-0754) 0.9" x 0.2" x 0.2"
Qty of 10 clips and 20 Phillips head screws.
(9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair are already included with each spool.)



**Wet Location Strip Light Sealing Kit**
(item #DI-0762)
caps: 0.9" x 0.2" x 0.2"
Includes 10 end caps (item #DI-0755) and one 1.5 oz. tube of sealant (item #DI-0756).



**REIGN 12V / 24V Dimmer Switches**
(page 73)
The REIGN DImmer is connected between the 12V or 24V DC power supply and 12V or 24V LED fixture, and offers 100%-0% dimming. Limit of 100W.



**Waterproof Splitter Cable**
2-way (item #DI-0804)
3-way (item #DI-0805)
5-way (item #DI-0806)
8" x 1" x 0.3"
Connects several sections of single color BLAZE Wet Location Strip Light to one power source.



**Waterproof Solder Connector Pair**
(item #DI-0725)  4.7" x 0.3"
Connects BLAZE Wet Location Strip Light to a Hard-Wired Driver. One pair included with each spool.



**Adapter Splice Cable - female**
(item #DI-0712F)  42" x 0.45"
Connects BLAZE Wet Location Strip Light to a Hard-Wired Driver without cutting wires.



**Adapter Splice Cable - male**
(item #DI-0712M) 42" x 0.45"



**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Strip Light to DC Plug Connectors to one Plug-In Adapter.

# Color–Changing RGB Light Collection Overview

Color-changing RGB Lights are designed to establish ambiance with full-color, energy-efficient LED lighting. Paired with an RGB Controller, RGB lights can be programed to flash, chase, strobe, etc., transforming ambient lighting into a dynamic, fun, and festive light show. They are available as Strip Lights and Light Bars for small to mid-sized social settings, and Wall Washers for larger locations that require more substantial coverage. Whether it is a cozy space, a decorative display, or an outdoor gala; Diode LED can help you create the mood.

Color-changing RGB lights are available in many forms:
- SPECTRUM RGB Strip Light is our standard color-changing strip light
- DAZZLE High Output RGB Strip Light is twice as bright as the SPECTRUM RGB Strip Light
- TRUE FOCUS Color-Changing Tube Light offers an adjustable light direction
- CASCADE Wet Location RGB Light Bar is a sturdy bar that's brighter than the TRUE FOCUS RGB Tube
- SPLASH Industrial Series RGB Wall Washers are commercial-grade fixtures for architectural and event lighting

All of Diode LED's color-changing RGB Lights require one of our **RGB Color Controllers** (p. 48-49) to operate them, whether you need color-changing or static color modes for an installation. Diode LED also offers the **Apollo Jammer audio interface** (p. 48), a color controller that receives input from an audio device and commands RGB lights to respond in real time to the sound. RGB Strip Light installations longer than 16 feet require one of our **RGB Signal Amplifiers** (p. 47), which are available in standard, mini, and wet location versions.

Full color Lights are used in a wide range of applications:
- Restaurants, bars, and clubs
- Stages and theaters
- Living room, rec room or home entertainment center
- Parties and special events
- Outdoor and indoor architecturtal accenting
- Display cases and shop windows
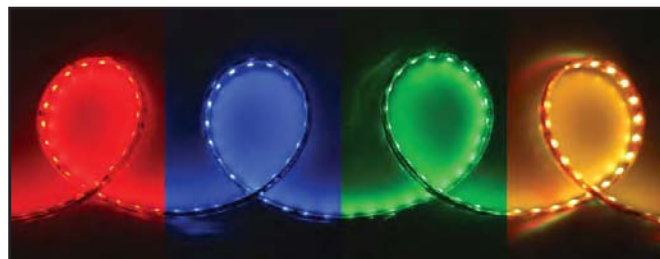
# SPECTRUM RGB Strip Light

Diode LED's SPECTRUM RGB Strip Lights are designed to establish ambiance and add color to interiors with eco-friendly, full-color LED lighting. SPECTRUM RGB Light Strips can be used creatively in a home or a business and are well suited for lighting spaces that require a low-profile, low-heat light source that has full color capabilities.

Because they can be field cut, Spectrum RGB Strip Lights fit well into:
- Bars and restaurants
- Artistic installations
- Displays and cases
- Tight spaces
- Shelves and cabinets
- Soffitts, coves, and valences

Flexible RGB LED Strip Lighting has a wide 120° beam angle that ensures it lights evenly and does not cast shadows on surfaces. Our multi-color Flexible LED Light strips can also be controlled with one of our low-voltage, Full Color LED Controllers (page 50) that will give you a wide array of creative lighting options for any situation. Large installations of RGB LED strip light can be amplified with RGB Amplifiers (page 51).

## Highlights

- **UL Listed**
- **Color-Changing**
- Height: 0.1"
- Connector: 4" RGB lead wire
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 16.4 foot section requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

4" between cut points

0.4"

1.3" between centers

**Actual width size shown**
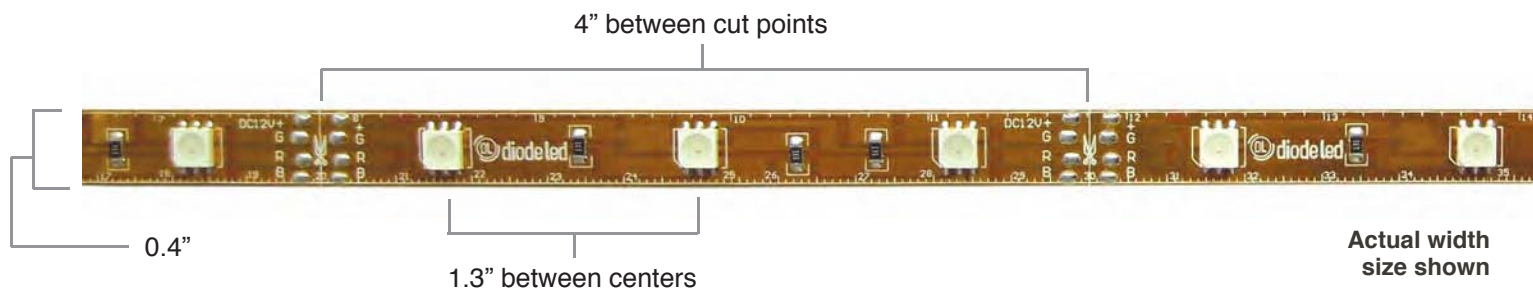
## Technical Specifications: SPECTRUM RGB Strip Light

| item # | length | color | lumens / ft. | beam angle | power consumption / ft. | LEDs / ft. |
| --- | --- | --- | --- | --- | --- | --- |
| DI-0070 | 16.4' | RGB | 70 max. | 120° | 2.2W / 180mA | 9 |

**Each 16.4 foot section requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

## Accessories

**RGB Strip Light EZ Connector with exposed lead wires**
(item #DI-0702) / Qty of 25 (item #DI-0702-25)
Qty of 50 (item #DI-0702-50)
4.3" x 0.65"
Connects SPECTRUM RGB Strip Light to the SPECTRUM RGB Color Controllers and the SPECTRUM RGB Strip Amplifiers.

**RGB Strip-to-Strip Bending Extension**
(item #DI-0768) / Qty of 25 (item #DI-0768-25)
Qty of 50 (item #DI-0768-50)
5" x 0.6"
Creates a flexible 10° - 180° turn between sections of SPECTRUM RGB Strip Light.

**39 Inch RGB Strip-to-Strip Bending Extension**
(item #DI-0776)  39.4" x 0.6"
Creates an extension between sections of SPECTRUM RGB Strip Light.

**22/4 Wire**
per foot (item #DI-0769-F)  0.4" x 0.1"
This four-strand, 22 gauge wire creates extensions between color-changing fixtures, and allows for parallel runs of non-waterproof SPECTRUM RGB Strip Light. Available by the foot.

**RGB Strip-to-Strip Connector**
(item #DI-0724) / Qty of 25 (item #DI-0724-25)
Qty of 50 (item #DI-0724-50)
0.7" x 0.4" x 0.1"
Connects two sections of SPECTRUM RGB Strip Light.

**RGB Strip Light to Bar EZ Connector**
**male** (item #DI-0731M) / Qty of 25 (item #DI-0731M-25)
Qty of 50 (item #DI-0731M-50)
**female** (item #DI-0731F) / Qty of 25 (item #DI-0731F-25)
Qty of 50 (item #DI-0731F-50)
6.5" x 0.5"
Connects SPECTRUM RGB Strip Light to TRUE FOCUS Color-Changing Tube Lights.

# DAZZLE High Output RGB Strip Light

The DAZZLE High Output RGB Strip Light offers all the same features and advantages as our standard SPECTRUM LED Strip Light, but has twice as many luminaires and is twice as bright. This strip light transforms a living room, rec room or home entertainment center into a place for parties and special events. It's also useful for lighting large display cases, shop windows, restaurants and bars. With the use of one of Diode's RGB color controllers, this super bright RGB strip makes for an easy, economical LED light solution.

DAZZLE High Output RGB Strip Light comes with a 3M adhesive backing, so mounting the strip on a smooth, dry surface is as easy as peeling and sticking. Although twice as bright as the SPECTRUM LED Strip Light, this strip consumes less than 5 Watts of electricity per foot. Unlike single color strips, the DAZZLE High Output RGB Strip Light requires the Spectrum Flexible Strip EZ Connector and a color controller between them and the power source, whether it's a 12V Plug-In Adapter or a 12V Hard-Wired Non-Dimmable Driver.

## Highlights

- **UL Listed**
- **Color-Changing**
- Height: 0.1"
- Connector: 4" RGB lead wire
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

2" between cut points

0.4"

0.65" between centers

**Actual width size shown**
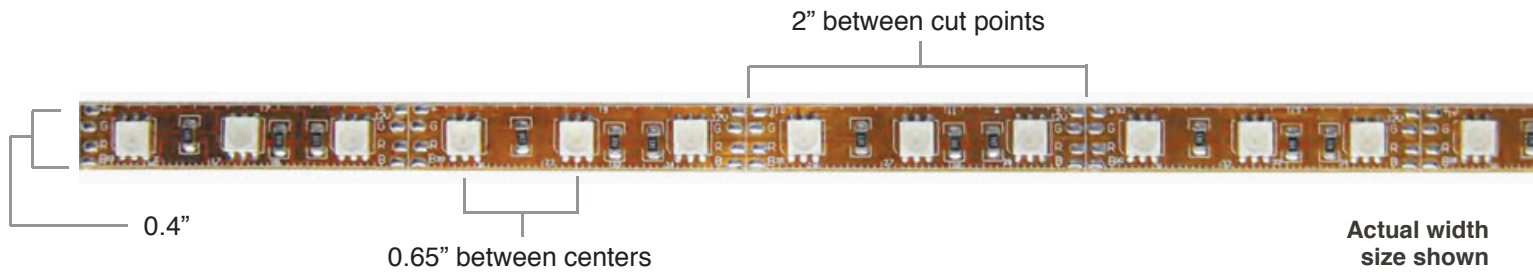
## Technical Specifications: DAZZLE High Output RGB Strip Light

| item # | length | color | lumens / ft. | beam angle | power consumption / ft. | LEDs / ft. |
|---|---|---|---|---|---|---|
| DI-0073 | 16.4' | RGB | 120 max. | 120° | 4.4W / 360mA | 18 |

**Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

## Accessories

**RGB Strip Light EZ Connector with exposed lead wires**
(item #DI-0702) / Qty of 25 (item #DI-0702-25)
Qty of 50 (item #DI-0702-50)
4.3" x 0.65"
Connects DAZZLE High Output RGB Strip Light to the SPECTRUM RGB Color Controllers and the SPECTRUM RGB Strip Amplifiers.

**RGB Strip-to-Strip Bending Extension**
(item #DI-0768) / Qty of 25 (item #DI-0768-25)
Qty of 50 (item #DI-0768-50)
5" x 0.6"
Creates a flexible 10° - 180° turn between sections of DAZZLE High Output RGB Strip Light.

**39 Inch RGB Strip-to-Strip Bending Extension**
(item #DI-0776)  39.4" x 0.6"
Creates an extension between sections of DAZZLE High Output RGB Strip Light.

**22/4 Wire**
per foot (item #DI-0769-F)  0.4" x 0.1"
This four-strand, 22 gauge wire creates extensions between color-changing fixtures, and allows for parallel runs of DAZZLE High Output RGB Strip Light. Available by the foot.

**RGB Strip-to-Strip Connector**
(item #DI-0724) / Qty of 25 (item #DI-0724-25)
Qty of 50 (item #DI-0724-50)
0.7" x 0.4" x 0.1"
Connects two sections of DAZZLE High Output RGB Strip Light.

**RGB Strip Light to Bar EZ Connector**
**male** (item #DI-0731M) / Qty of 25 (item #DI-0731M-25)
Qty of 50 (item #DI-0731M-50)
**female** (item #DI-0731F) / Qty of 25 (item #DI-0731F-25)
Qty of 50 (item #DI-0731F-50)
6.5" x 0.5"
Connects DAZZLE High Output RGB Strip Light to TRUE FOCUS Color-Changing Tube Lights.

# SPECTRUM Wet Location RGB Strip Light

SPECTRUM Wet Location RGB Strip Lights are designed to add vibrant color to exteriors and interiors with eco-friendly, full-color LED lighting. SPECTRUM Wet Location RGB Light Strips can bring out your creative side, whether in a home or business. They are ideal for lighting outdoor and indoor spaces that require a light source that has full color-changing capabilities.

SPECTRUM Wet Location RGB Strip Light fits well in:
- Outdoor parties and events
- Decks, patios, and gardens
- Architectural accenting
- Bars and clubs

Our RGB Strip Lights can also be commanded with one of Diode LED's low-voltage RGB Color Controllers that offer a wide array of creative, custom lighting options for almost any application. RGB Strip Lights can be programmed in different color-changing modes, or single colors can be selected.

*Not recommended as submersible or for use in or around treated, chlorinated or salt water.*

c **UL** us
**LISTED**

**RoHS compliant**

## Highlights

- **UL Listed**
- **Color-Changing**
- Height: 0.25"
- Connector: 4.5" waterproof RGB plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Lamp Life: 50,000 hours
- 9 clips, 18 screws, 5 end caps, and 1 Wet Location RGB Splice Connector Pair that are included with each spool.
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

connector = 4.5"

1.3" between centers

**Actual width size shown**

0.5"

4" between cut points
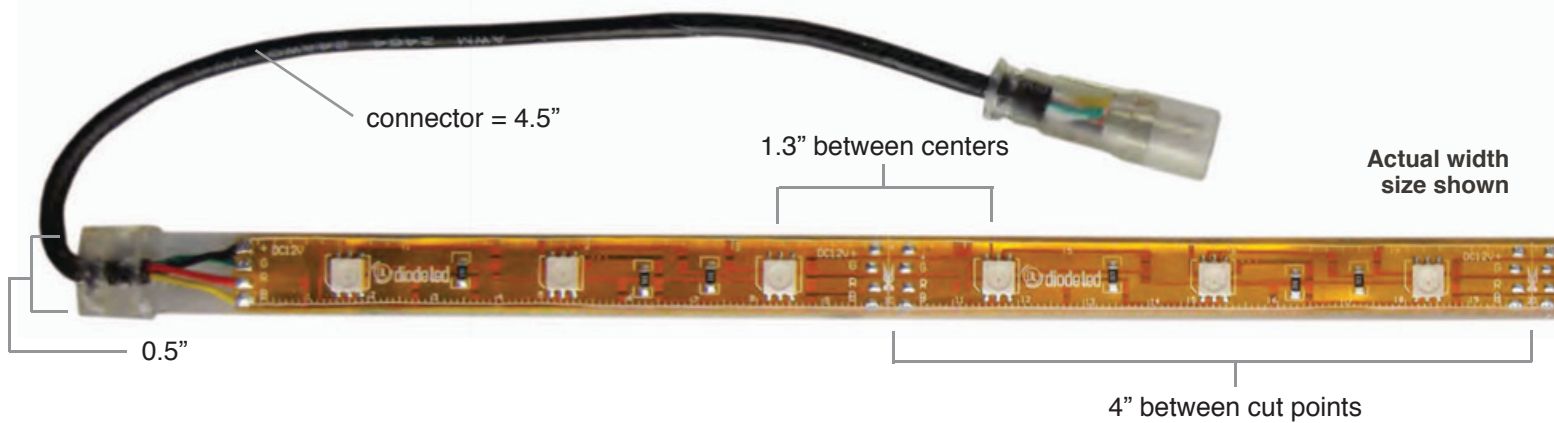
## Technical Specifications: SPECTRUM Wet Location RGB Strip Light

| item # | length | color | lumens / ft. | beam angle | power consumption / ft. | IP rating | LEDs / ft. |
|--------|--------|-------|--------------|------------|-------------------------|-----------|------------|
| DI-0071 | 9.5' | RGB | 70 max. | 120° | 2.2W / 180mA | IP68 | 9 |

**Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

## Accessories



**Wet Location RGB Splice Connector Pair**
(DI-0766) 4.7" x 0.4"
The Wet Location RGB Splice Connector converts wet location RGB strip light plugs to bare wires for connection to an RGB color controller. Sold by the pair.



**39 Inch Wet Location RGB Strip-to-Strip Bending Extension**
(item #DI-0778)  39.4" x 0.6"
Creates an extension between sections of SPECTRUM Wet Location Strip Light.



**Additional SPECTRUM Wet Location Strip Mounting Clips**
(item #DI-0754) 0.9" x 0.2" x 0.2"
Qty of 10 clips and 20 Phillips head screws.
(9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair are already included with each spool.)



**22/4 Wire**
per foot (item #DI-0769-F)  0.4" x 0.1"
This four-strand, 22 gauge wire creates extensions between color-changing fixtures, and allows for parallel runs of non-waterproof SPECTRUM RGB Strip Light. Available by the foot.

# DAZZLE Wet Location
# High Output RGB Strip Light

The DAZZLE Wet Location High Output RGB Strip Light offers all the same features and advantages as our SPECTRUM Wet Location RGB Strip Light, but is twice as bright. With the use of one of Diode LED's RGB color controllers, this super bright RGB strip makes for an easy, custom LED lighting installation. It can be programmed to light up with different color-changing modes, or to display the single color of your choice. The DAZZLE RGB Strip Light transforms any commercial or home setting.

DAZZLE Wet Location High Out put RGB Strip Light fits well in:
- Outdoor events
- Decks, patios, and gardens
- Architectural accenting
- Bars and clubs
- Lounges and casinos
- Vehicles (trailers, autos, campers, boats, and busses)

DAZZLE Wet Location High Output RGB Strip Light can be mounted on a smooth, dry surface with Waterproof Strip Light Mounting Clips. Although twice as bright as the SPECTRUM LED Strip Light, this strip consumes less than 5 Watts of electricity per foot.

*Not recommended as submersible or for use in or around treated, chlorinated or salt water.*

## Highlights

- **UL Listed**
- **Color-Changing**
- Height: 0.25"
- Connector: 4.5" waterproof RGB plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Lamp Life: 50,000 hours
- 9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair that are included with each spool.
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**
- **Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

connector = 4.5”

0.65” between centers

0.5”

2” between cut points

**Actual width size shown**
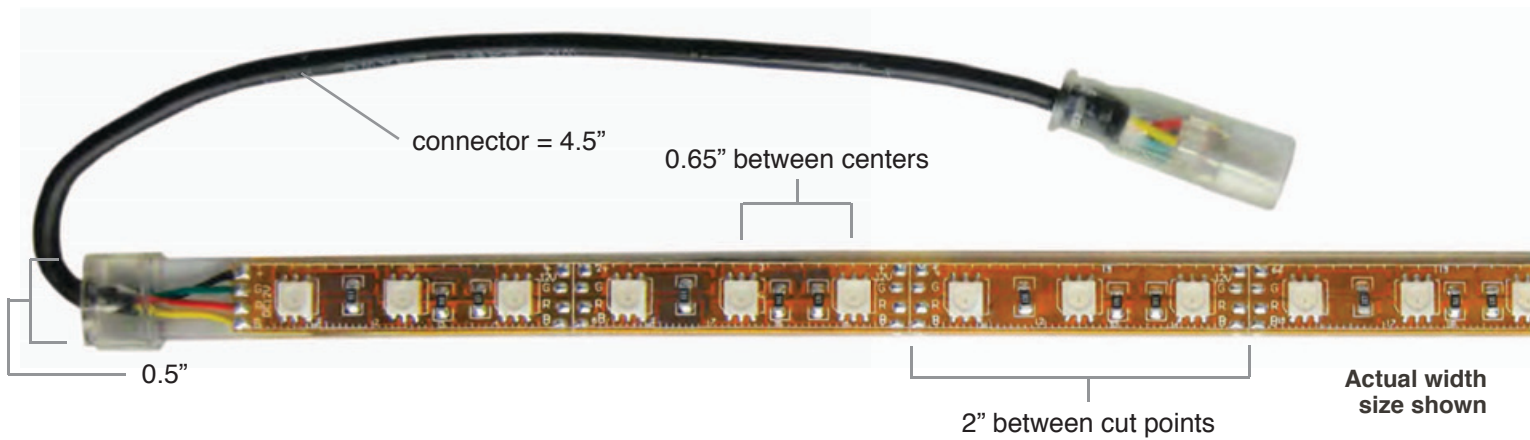
## Technical Specifications: DAZZLE Wet Location High Output RGB Strip Light

| item # | length | color | lumens / ft. | beam angle | power consumption / ft. | IP rating | LEDs / ft. |
|--------|--------|-------|--------------|------------|------------------------|-----------|------------|
| DI-0074 | 9.5' | RGB | 120 max. | 120° | 4.4W / 360mA | IP68 | 16 |

**Each 19 foot section (two 9.5 foot spools) requires a dedicated line from the power supply and controller or to an RGB Strip Amplifier to avoid voltage drop.**

## Accessories



**Wet Location RGB Splice Connector Pair**
(DI-0766) 4.7” x 0.4”
The Wet Location RGB Splice Connector converts wet location RGB strip light plugs to bare wires for connection to an RGB color controller. Sold by the pair.



**39 Inch Wet Location RGB Strip-to-Strip Bending Extension**
(item #DI-0778)  39.4” x 0.6”
Creates an extension between sections of SPECTRUM Wet Location Strip Light.



**Additional SPECTRUM Wet Location Strip Mounting Clips**
(item #DI-0754) 0.9” x 0.2” x 0.2”
Qty of 10 clips and 20 Phillips head screws.
(9 clips, 18 screws, 5 end caps, and 1 Waterproof Solder Connector Pair are already included with each spool.)



**22/4 Wire**
per foot (item #DI-0769-F)  0.4“ x 0.1”
This four-strand, 22 gauge wire creates extensions between color-changing fixtures, and allows for parallel runs of non-waterproof SPECTRUM RGB Strip Light. Available by the foot.

# CASCADE Wet Location RGB Light Bar

The CASCADE Wet Location RGB Light Bar offers color-changing light for use indoors and outdoors. This multi-color LED Light Bar has the same housing as the CASCADE Light Bar, and draws the same small amount of electricity: only 3.6 - 7.2 Watts! With its compact sizes, this RGB LED light fixture makes a great accenting tool to add colorful decorative light to any home or business.

This dustproof color-changing LED light fixture has many indoor and outdoor uses:
- Shelves and cabinets
- Decks and patios
- Retail stores and coffee shops
- Clubs, bars, and restaurants
- Special events and parties
- Cars, boats, campers, trailers, and buses

Installation of this LED fixture is simple. Every bar includes two mounting clips and screws (you attach each clip to the surface with two screws) and a pair of Wet Location RGB Splice Connectors for use with an LED color controller. The CASCADE RGB Bar can be powered with one of our indoor/outdoor 12V Drivers, or with a 12V Adapter, and controlled with any of our RGB color controllers. Each single bar or sequence of bars needs a color controller to unlock all of this outdoor LED fixture's full color lighting. *Not recommended as submersible or for use in or around treated, chlorinated or salt water.*

## Highlights

- **ETL Listed (Conforms to UL 2108)**
- **Color-Changing**
- **Wet Location (IP68)**
- Height: 0.4"
- Connector: 4.5" waterproof RGB plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Operating Temp.: 75° F
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

0.6"

connector = 4.5"

0.8" between centers

Actual width size shown
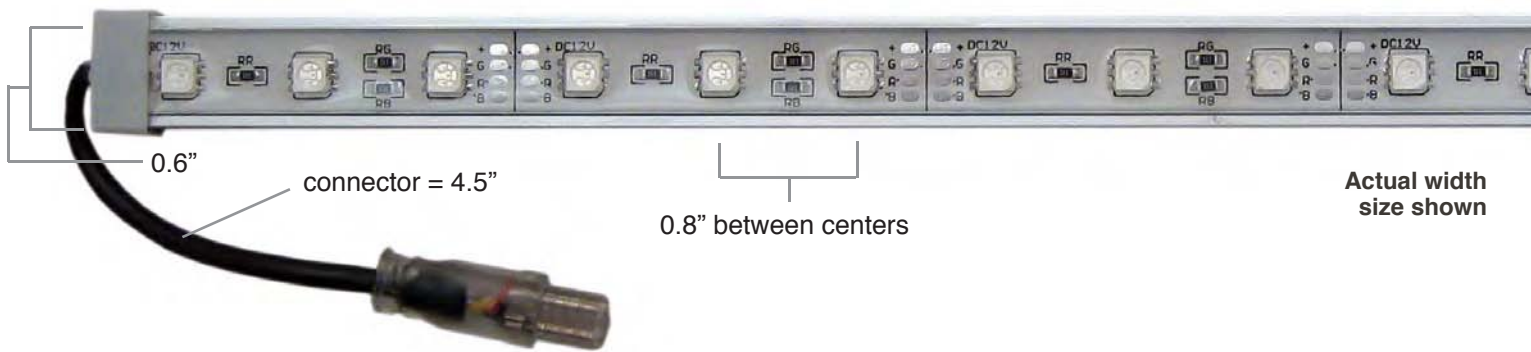
## Technical Specifications: CASCADE Wet Location RGB Light Bar

| item # | length | color | lumens | beam angle | power consumption | IP rating | # of LEDs | max. bars per run |
|--------|--------|-------|--------|-----------|-------------------|-----------|-----------|-------------------|
| DI-0240 | 12" | RGB | 75 max. | 120° | 3.6W / 300mA | IP68 | 15 | 6 |
| DI-0241 | 23.8" | RGB | 150 max. | 120° | 7.2W / 600mA | IP68 | 30 | 3 |

Two mounting clips and screws are included with each bar. For additional mounting clips, see page 82.

## Accessories



**Wet Location RGB Splice Connector Pair**
(item #DI-0766) 4.7" x 0.4"
The Wet Location RGB Splice Connector converts wet location RGB strip light plugs to bare wires for connection to an RGB color controller. Sold by the pair.



**39 Inch Wet Location RGB Strip-to-Strip Bending Extension**
(item #DI-0778)  39.4" x 0.6"
Creates an extension between CASCADE Wet Location RGB Light Bars.



**Additional CASCADE Light Bar Mounting Clips**
(item #DI-0752) 0.75" x 0.5" x 0.6"
Qty of 10 clips and 10 Phillips head screws.
(Two clips and screws are already included with each bar.)



**22/4 Wire**
per foot (item #DI-0769-F)  0.4" x 0.1"
This four-strand, 22 gauge wire creates an extension between CASCADE Wet Location RGB Light Bars. Available by the foot.

# TRUE FOCUS Color–Changing Tube Light

The TRUE FOCUS Color-Changing Tube Light is available in 9" and 20" sizes and offers a greener solution for a variety of interior full color lighting needs, including:

- Bookcases and shelves
- Soffitts and windows
- Bar and club lighting
- Home theater lighting
- Color-changing displays
- Accent and decorative lighting
- Edge-lighting

With a surface-mount RGB LED and wide 120° flood angle, this full color LED light bar is seamlessly bright and adds dynamic color accenting to any lighting situation, whether a special event or permanent installation.

Some of the features of this TRUE FOCUS Color-Changing Tube Light include:

- Compact size
- Simple manual adjustment allows for fully adjustable angle of light
- Uses 4 Channels (red, green, blue, common positive)
- With an RGB controller, can be set to a single color or multi-color
- Included mounting hardware

To see the single color TRUE FOCUS LED Tube Light, go to page 58.

## Highlights

- **UL Listed**
- **Color-Changing**
- Diameter: 0.6"
- Connector: 2.5" RGB plug
- Voltage: 12V DC
- IP Rating: indoor
- Operating Temp.: 75° F
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

connector length = 2.5"

width = 0.6"
width / height with mounting clips = 1"

1.3" between centers

**Actual width size shown**
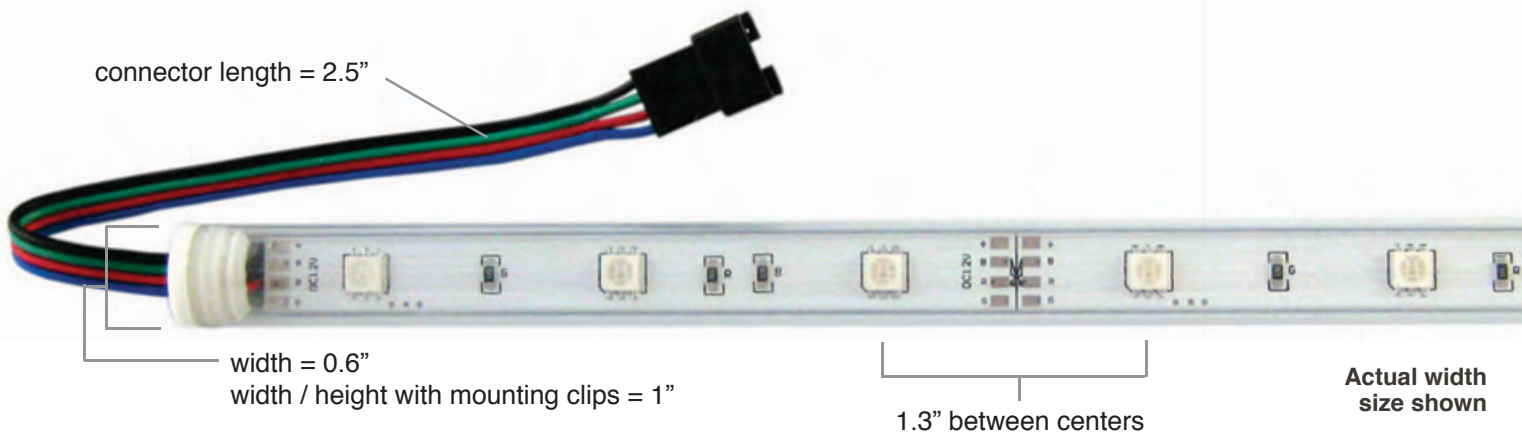
## Technical Specifications: TRUE FOCUS Color–Changing Tube Light

| item # | length | color | color temp. | lumens | power consumption | IP rating | # of LEDs | max. bars per run |
|---|---|---|---|---|---|---|---|---|
| DI-0257 | 8.9" | RGB | up to 620nm | 47 max. | 1.44W / 120mA | IP50 | 6 | 8 |
| DI-0254 | 19.9" | RGB | up to 620nm | 118 max. | 3.6W / 300mA | IP50 | 15 | 5 |

Two mounting clips and screws are included with each bar. For additional mounting clips, see page 82.

## Accessories

**RGB Light Bar Connector Pair**
(item #DI-0741) 3" x 0.5" x 0.3"
Connects the TRUE FOCUS Color-Changing Tube Light to an RGB color controller, the Apollo Jammer audio interface, and RGB accessories. One pair is included with each TRUE FOCUS Color-Changing Tube Light. Sold by the pair.

**RGB Light Bar Splitter Cable**
2-way (item #DI-0807)
3-way (item #DI-0808)
5-way (item #DI-0809)
11" x 1" x 0.3"
Connects several TRUE FOCUS Color-Changing Tube Lights to one power source.

**RGB Light Bar EZ Extension Cable**
**3 ft. (**item #DI-0787)
**9 ft. (**item #DI-0788)
**16.5 ft. (**item #DI-0730) / Qty of 25 (item #DI-0730-25)
Qty of 50 (item #DI-0730-50)
Connects and extends two TRUE FOCUS Color-Changing Tube Lights. Features one male plug and one female plug.

**RGB Strip Light to Bar EZ Connector**
**male (**item #DI-0731M) / Qty of 25 (item #DI-0731M-25)
Qty of 50 (item #DI-0731M-50)
**female (**item #DI-0731F) / Qty of 25 (item #DI-0731F-25)
Qty of 50 (item #DI-0731F-50)
6.5" x 0.5"
Connects SPECTRUM and DAZZLE High Output RGB Strip Lights to TRUE FOCUS Color-Changing Tube Lights.

# SPLASH Series
## Color-Changing RGB Wall Washers

A Color-Changing RGB LED Wall Washer will make any party or event a colorful and dynamic affair. Diode LED's Color-Changing RGB Wall Washers are water resistant and wet location rated, so they can provide decorative and accent lighting in both indoor and outdoor settings. These durable, industrial-grade LED fixtures are great for architectural accent lighting, decorative lighting for building interiors, gardens, patios, restaurants and more. At home, these dynamic wall washers create atmosphere galore, whether for a party, a special room in the house, or to liven up your rec room.

You can operate Diode LED RGB wall washers in one of three ways: on an internal setting, in DMX mode and as part of a daisy chain:

- **Internal mode**: no other equipment is required to set the wall washer internally to generate spectacular color-changing effects. They include flashing, fading, static colors and seven colors changing in sync.
- **DMX mode**: an external controller, such as our Apollo Color Controller (page ), is required, but the number of effects possible grows exponentially into the thousands.
- **Daisy chain**: link several washers to one another for a series of special effects that can be triggered by just one RGB controller.

RGB LED Wall Washers come with a hard-wired power cable, as well as DMX cables that make it compatible with a DMX controller and additional washers. Each patented washer is made of light but strong aluminum alloy, built for durability and stability.

To see single color SPLASH Series Industrial LED Wall Washers, go to page 67.

### Highlights

**c(UL)us LISTED**  **RoHS compliant**

- **UL Listed**
- Color-Changing
- Durable
- Indoor and Outdoor
- Industrial
- Super Bright
- Plugs into wall outlet
- No external power supply needed
- Daisy-chain up to 10 washers
- IP Rating: wet location / outdoor
- Lamp Life: 50,000 hours
- **Every Diode LED Wall Washer comes with heat-shrink tubing to create a watertight seal around DMX cable connections**
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

**TOUGH MOUNTING BRACKETS FOR EASY INSTALL**

**49" RGB Wall Washer**
(item #DI-0450 and DI-0451)
49" x 3" x 2.74"
Weight: 13.5 lbs.

Diode LED's longest and slimmest wall washer, at under 3 inches wide, the 49 Inch Wall Washer hugs close to a wall or or ceiling while transforming a room with a full-color LED light show. This wall washer is ideal for billboards and other outdoor signage, as well as exterior architectural applications. Sturdy aluminum mounting brackets and heat shrink tubes included.

**PAR 64 Wall Washer**
(item #DI-0470 and DI-0471)
7" x 7" x 8"
Weight: 8 lbs. 11 oz.

This LED spotlight is only 7 inches in diameter, so it can tuck into the corner of a stage in a theater or club. This color-changing wall wash provides powerful, focused accent lighting. Heat shrink tubes included.

**13" Wall Washer**
(item #DI-0460 and DI-0461)
13" x 5.1" x 3.2"
Weight: 11 lbs.

**TOUGH MOUNTING BRACKET FOR EASY INSTALL**

Just over a foot long and only 5 inches wide, this multi-color light contains 36 high-power LEDs that are enough to light a 200 or more square foot room. It is water resistant and wet location rated, so use it to decorate both indoor and outdoor settings. The 13" Color-Changing Wall Washer is like having an interior decorator and lighting designer in a box. Aluminum mounting bracket, DMX extension cable, and heat shrink tubes included.

## Technical Specifications: SPLASH Series Color–Changing RGB Wall Washers

| item # | product | projection distance | lumens | beam angle | power consumption | IP rating | # of LEDs | max. daisy-chain |
|---|---|---|---|---|---|---|---|---|
| DI-0450 | 49" Wall Washer | 15 ft. | 720 - 2730 | 45° | 56W max. | IP65 | 36 | 10 units |
| DI-0451 | 49" Wall Washer | 100 ft. | 720 - 2730 | 15° | 56W max. | IP65 | 36 | 10 units |
| DI-0470 | PAR 64 Wall Washer | 15 ft. | 720 - 2730 | 45° | 55W max. | IP65 | 36 | 10 units |
| DI-0471 | PAR 64 Wall Washer | 100 ft. | 720 - 2730 | 15° | 55W max. | IP65 | 36 | 10 units |
| DI-0460 | 13" Wall Washer | 15 ft. | 720 - 2730 | 45° | 55W max. | IP65 | 36 | 10 units |
| DI-0461 | 13" Wall Washer | 55 ft. | 720 - 2730 | 15° | 55W max. | IP65 | 36 | 10 units |

# SPECTRUM RGB Strip Light Kits

SPECTRUM RGB Strip Light kits are a great way to get everything you need for a color-changing LED light installation, all in one easy-to-configure package. Like single color FLUID VIEW Strips, SPECTRUM RGB Strips are flexible and cuttable, and they come with a 3M™ adhesive backing tape, so they're ready for any custom installation.



**SPECTRUM 5 Foot**
**RGB Strip Light Kit**
(item #DI-0181)

**Includes:**
5 feet of SPECTRUM RGB Strip Light
1 x SPECTRUM Color Controller
1 x Infrared (IR) wireless remote control
1 x Spectrum Flexible Strip EZ
    Connector with exposed lead wires
1 x 36 Watt Plug-In Adapter
1 x Mini screwdriver set
1 x Wiring diagram





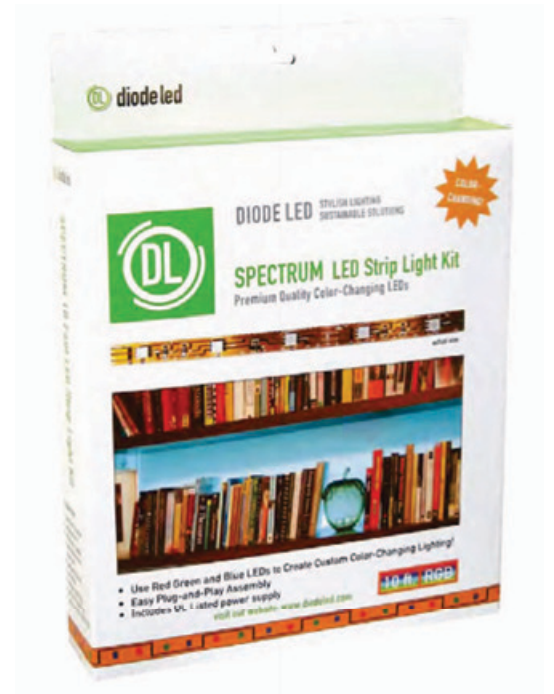**SPECTRUM 10 Foot**
**RGB Strip Light Kit**
(item #DI-0180)

**Includes:**
10 feet of SPECTRUM RGB Strip Light
1 x SPECTRUM Color Controller
1 x Infrared (IR) remote control
1 x Spectrum Flexible Strip EZ
    Connector with exposed lead wires
1 x 36 Watt Plug-In Adapter
1 x Mini screwdriver set
1 x Wiring diagram

# RGB Signal Amplifiers

If you're creating an installation with SPECTRUM or DAZZLE RGB Strips that is longer than 16 feet, you'll need the SPECTRUM RGB Strip Amplifier for indoor applications, or our waterproof one for wet locations. *Note: Each amplifier must be wired separately to a 12V DC power supply.* **RGB Amplifiers are not for use with SPLASH Series Industrial RGB Wall Washers.**

### Waterproof RGB Signal Amplifier
**(**item #DI-0717**)** 3.75" x 2" x 1.2"
Cable lengths: 8"

Allows you to power and color-control sections of SPECTRUM and DAZZLE High Output RGB Strip Light greater than 16 feet by amplifying the controller signal and the power. One Signal Amplifier is necessary for every 16 feet of SPECTRUM or DAZZLE High Output RGB Strip Light. It can be used for wet location outdoor LED lighting in a hard-wire installation.

### RGB Signal Amplifier
**(**item #DI-0718**)** 4.2" x 2.5" x 1"

Allows you to power and color-control sections of SPECTRUM and DAZZLE High Output RGB Strip Light greater than 16 feet by amplifying the controller signal and the power. One Signal Amplifier is necessary for every 16 feet of SPECTRUM or DAZZLE High Output RGB Strip Light. Power is delivered to the amplifier via an independant 12V DC adapter, DC Adapter Splice Cable (DI-0712M), or a DC Wire Plug (DI-1713M) for hard-wired power installation.

### Mini RGB Signal Amplifier
(item #DI-0765) 1.6" x 1.1" x 0.7",
RGB cable lengths: 6"
DC cable length: 2.5"

Amplifies the color signal and power on sections of SPECTRUM and DAZZLE High Output RGB Strip Light longer than 16 feet, and is great for tight spaces. It can be used for wet location outdoor LED lighting. Power is delivered to the amplifier via an independant 12V DC adapter, DC Adapter Splice Cable (DI-0712M), or a DC Wire Plug (DI-1713M) for hard-wired power installation.

### Screwdriver Kit
**(**item #DI-0779**)** 3.75" x 2.5" x 0.5"
Perfect for installing any mounting clips, and for use with RGB color controllers.
Includes:
- #1 Philips head
- #0 Philips head
- 1.2mm flat head
- 1.4mm flat head
- 1.8mm flat head
- 2.0mm flat head

### DC Wire Plug
Male white (DI-1713M)
1.6" x 0.6" x 0.5"
Converts two-strand wire to a DC plug without soldering.

### Adapter Splice Cable
Male (item #DI-0712M)
42" x 0.45"
Connects RGB Amplifiers to a hard-wired driver.

# Apollo Color Controller & Apollo Jammer

In order to take advantage of the full color capabilities of our color-changing RGB lights, you will need one of these RGB Color Controllers. All Diode LED controllers allow you to change the mode, speed, and brightness level of color-changing RGB fixtures. The Apollo DMX Color Controller is the only Diode LED controller that is compatible with our SPLASH Series Color-Changing RGB Wall Washers.



### Apollo DMX Color Controller
(item #DI-0764)  5" x 4" x 1.5"

A dual-mode, custom programmable controller that offers both DMX output for controlling SPLASH Series Color-Changing Wall Washers, and PWM output that controls all other Diode LED RGB fixtures. The Apollo has a memory to store the DMX commands that you program. The Apollo was designed in-house by Diode LED to offer fully customizable color control and is the most powerful controller we sell.
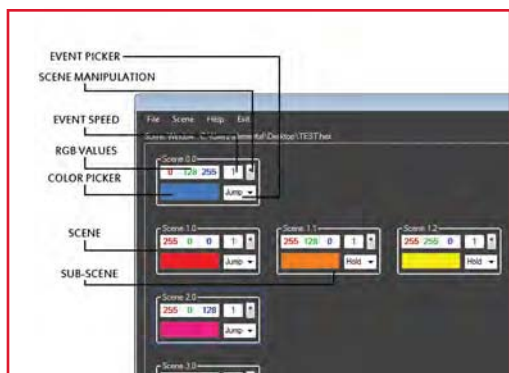


Each Apollo controller includes PC-compatible software (shown left) that allows for user-friendly custom lighting programming, plus a USB Cable for connecting the controller to a computer. Use the easy-to-use software to program all the features of a custom light show: brightness, precise color shades and hues, color-changing frequency, and color-changing mode. Then load your lighting program onto the controller, which operates independently wherever you need it.



### Apollo Jammer Audio Interface
(item #DI-0774)  5" x 4" x 1.5"

The Apollo Jammer is an audio interface and color controller that connects color-changing RGB fixtures to an audio device so that the lights flash and change colors in response to music and other sounds. The Apollo Jammer is compatible with both SPLASH Series Color-Changing Wall Washers and all other Diode LED RGB fixtures, as well as with iPods and other portable music players, smart phones, radios, computers, and any other device with an 1/8 inch audio output.

The Apollo Jammer includes an 1/8 inch audio cable and an audio splitter that allows you to input the sound source and output to speakers.

# RGB Color Controllers



## High Power RF RGB Color Controller
**(**item #DI-0760)  4.75" x 2.2" x 1"

A long-range radio frequency (RF) controller that features a wireless remote control with an operative range of 150 feet.



## SPECTRUM RGB Color Controller
**(**item #DI-0716)  3.5" x 2.75" x 1.1"

Allows you to select colors and color-changing modes for color-changing RGB fixtures with the included infrared (IR) wireless remote control.



## Analog RGB Color Controller
**(**item #DI-0777)  5.1" x 2.75" x 1.7"

Features fine-tuning knobs that adjust individual levels of Red, Green, and Blue light for mixing precise, custom colors in real time. Includes a radio frequency (RF) remote control. This controller is also compatible with K-Range Tunable Color Strip Light (pages 20-21).



## Micro RGB Color Controller
**(**item #DI-0767)  3.5" x 1.65" x 0.5"

Super-compact controller includes a radio frequency (RF) remote control and mini screwdriver.



WIRELESS WALL MOUNT

## Wireless Wall Mount RGB Color Controller
**(**item #DI-0761)
wall mount controller: 3" x 4.7" x 1.25"
controller: 5.1" x 1.6" x 1.2"

This package features a color controller, a lightweight wireless wall-mounted radio frequency (RF) remote control, and a wireless handheld remote control.

# RGB Accessories

We offer a variety of RGB accessories to help you with both large and small color-changing light installations. These accessories help you take advantage of the full color capabilities of our color-changing RGB strip lights and light bars. These accessories are not for use with SPLASH Series Color-Changing RGB Wall Washers.

**RGB Light Bar Connector Pair**
(item #DI-0741) 3" x 0.5" x 0.3"

Connects the TRUE FOCUS Color-Changing Tube Light to an RGB color controller, the Apollo Jammer audio interface, and RGB accessories.

**RGB Light Bar Splitter Cable**
2-way (item #DI-0807)
3-way (item #DI-0808)
5-way (item #DI-0809)
Cable length: 11" x 1" x 0.3"

Connects several TRUE FOCUS Color-Changing Tube Lights to one power source.

**22/4 Wire**
per foot (item #DI-0769-F)  0.4" x 0.1"

This four-strand, 22 gauge wire creates extensions between color changing fixtures, and allows for parallel runs of SPECTRUM and DAZZLE High Output RGB Strip Light. Available by the foot.

**RGB Light Bar EZ Extension Cable**
**3 ft. (**item #DI-0787)
**9 ft. (**item #DI-0788)
**16.5 ft. (**item #DI-0730), Qty of 25 (item #DI-0730-25)
Qty of 50 (item #DI-0730-50)

Connects and extends two TRUE FOCUS Color-Changing Tube Lights. Features one male plug and one female plug.

**Flexible RGB Strip to Bar EZ Connector**
**male (**item #DI-0731M), Qty of 25 (**item #DI-0731M-25)
Qty of 50 (**item #DI-0731M-50)
**female (**item #DI-0731F), Qty of 25 (**item #DI-0731F-25)
Qty of 50 (**item #DI-0731F-50)
Cable length: 6.5" x 0.5"

Connects SPECTRUM and DAZZLE High Output RGB Strip Lights to TRUE FOCUS Color-Changing Tube Lights.

# RGB Accessories (Continued)

We offer a variety of RGB accessories to help you with both large and small color-changing light installations. These accessories help you take advantage of the full color capabilities of our color-changing RGB strip lights and light bars. These accessories are not for use with SPLASH Series Color-Changing RGB Wall Washers.

**RGB Strip Light EZ Connector with exposed lead wires**
(item #DI-0702), Qty of 25 (item #DI-0702-25)
Qty of 50 (item #DI-0702-50)
4.3" x 0.65"
Connects SPECTRUM and DAZZLE High Output RGB Strip Lights to the RGB Color Controllers and the RGB Signal Amplifiers.

**RGB Strip-to-Strip Connector**
(item #DI-0724), Qty of 25 (item #DI-0724-25)
Qty of 50 (item #DI-0724-50)
0.7" x 0.4" x 0.1"
Connects two sections of SPECTRUM and DAZZLE High Output RGB Strip Lights.

**RGB Strip-to-Strip Bending Extension**
(item #DI-0768), Qty of 25 (item #DI-0768-25)
Qty of 50 (item #DI-0768-50)
5" x 0.6"
Creates a flexible 10° - 180° turn between sections of SPECTRUM and DAZZLE High Output RGB Strip Light.

**39 Inch RGB Strip-to-Strip Bending Extension**
(item #DI-0776)  39.4" x 0.6"
Creates a 39 inch extension between sections of SPECTRUM and DAZZLE High Output RGB Strip Light.

**Wet Location RGB Splice Connector Pair**
(item #DI-0766) 4.7" x 0.4"
The Wet Location RGB Splice Connector converts wet location RGB strip light plugs to bare wires for connection to an RGB color controller. Sold by the pair.

**39 Inch Wet Location RGB Strip-to-Strip Bending Extension**
(item #DI-0778)  39.4" x 0.6"
Creates an extension between sections of SPECTRUM Wet Location and DAZZLE Wet Location High Output RGB Strip Light, and between CASCADE Wet Location RGB Light Bars.

PLAN CHECK
1800 SAWTELLE BLVD
KITCHEN + BAR

# LED Light Bar Collection Overview

Diode LED's light bars are sleek, rigid, and dimmable fixtures that require very little power. They light shelves, cabinets, and other tight spaces that a standard bulb cannot. All of our light bars provide high quality, modern lighting in durable, dustproof fixtures, and each type has unique features:

- The SUNRISE Light Bar is wet location rated (IP68), so it can be used almost anywhere, indoors or out
- The CASCADE Light Bar is twice as bright as the SUNRISE Light Bar, and is also wet location rated (IP68)
- The TRUE FOCUS Tube Light offers an adjustable light direction
- ARRAY 24V Linkable Light Bars are available in many sizes and connect seamlessly

Our light bars have a variety of applications:
- Kitchens and bathrooms
- Restaurants, retail shops, and bars
- In the garden and yard, decks, patios
- Boats, boathouses, and camping
- Garages, walk-in coolers, and freezers
- Lighting wine caves (no UV emissions and low heat)
- Building exteriors and architectural models
- Shelves, cupboards, closets, and drawers
- Toe-kick, soffit, and uplighting

# SUNRISE Light Bar

A sleek, waterproof (but not submersible), dimmable fixture that requires very little power. The SUNRISE Light Bar is a low-profile LED bar that's a mere half inch wide and quarter inch high. This bar will light shelves, cabinets, and other tight spaces that a standard bulb cannot.

The SUNRISE light bar is wet location rated (IP68), so it can be used almost anywhere, indoors or out:

- In kitchens and bathrooms
- Showers, freezers, and benches
- In restaurants, retail shops, and bars
- In the garden and yard, decks, patios
- Boats, boathouses, and camping
- Garages, walk-in coolers, and freezers
- Lighting wine caves (no UV emissions and low heat)
- Building exteriors and architectural models
- In bookshelves, cupboards, closets, and drawers
- Toe-kick, soffit, and uplighting

This light bar comes with **a pair of mounting clips and screws, and a pair of solder connectors** that can connect the bar to a hard-wired driver. To install the bar, just screw the two Sunrise mounting clips that come with each bar into the surface with one screw, then snap the bar into the clips.

SUNRISE Bars can be powered with a Plug-In DC adapter, which connects to the two hard-wired plugs on each bar through our Waterproof Plug to DC Adapter Connector (item #DI-0710). Additional SUNRISE mounting clips (item #DI-0750) are available in packs of ten. *Not recommended as submersible or for use in or around treated, chlorinated or salt water.*

## Highlights

- **ETL Listed (Conforms to UL 2108)**
- **Dimmable**
- **Waterproof (IP68)**
- Height: 0.25"
- Connector: 2.5" waterproof plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

0.4”

connector = 2.5”

0.65” between centers

**Actual width size shown**
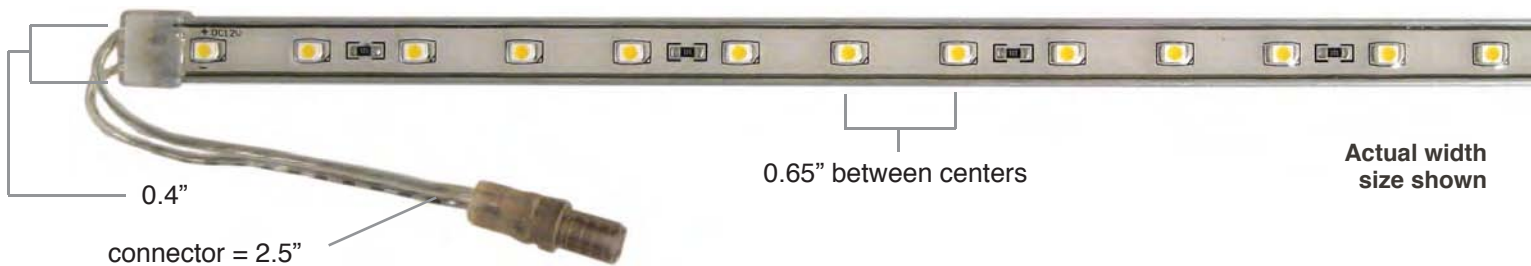
## Technical Specifications: SUNRISE Light Bar

| item # | length | color | color temp. | lumens | beam angle | power consumption | IP rating | CRI | # of LEDs | max. bars per run |
|---|---|---|---|---|---|---|---|---|---|---|
| DI-0209 | 6.25” | warm white | 2700k | 58 | 120° | 0.72W / 60mA | IP68 | 75 | 9 | 10 |
| DI-0210 | 6.25” | cool white | 5000k | 58 | 120° | 0.72W / 60mA | IP68 | 80 | 9 | 10 |
| DI-0200 | 10.25” | warm white | 2700k | 98 | 120° | 1.2W / 100 mA | IP68 | 75 | 15 | 7 |
| DI-0201 | 10.25” | cool white | 5000k | 98 | 120° | 1.2W / 100 mA | IP68 | 80 | 15 | 7 |
| DI-0211 | 12.25” | warm white | 2700k | 117 | 120° | 1.44W / 120mA | IP68 | 75 | 18 | 6 |
| DI-0212 | 12.25” | cool white | 5000k | 117 | 120° | 1.44W / 120mA | IP68 | 80 | 18 | 6 |
| DI-0202 | 20.1” | warm white | 2700k | 195 | 120° | 2.4W / 200mA | IP68 | 75 | 30 | 5 |
| DI-0203 | 20.1” | cool white | 5000k | 195 | 120° | 2.4W / 200mA | IP68 | 80 | 30 | 5 |
| DI-0204 | 20.1” | red | 625nm | 60 | 120° | 2.4W / 200mA | IP68 | n/a | 30 | 5 |
| DI-0205 | 20.1” | green | 520nm | 105 | 120° | 2.4W / 200mA | IP68 | n/a | 30 | 5 |
| DI-0206 | 20.1” | blue | 470nm | 30 | 120° | 2.4W / 200mA | IP68 | n/a | 30 | 5 |
| DI-0207 | 20.1” | amber | 590nm | 23 | 120° | 2.4W / 200mA | IP68 | n/a | 30 | 5 |
| DI-0213 | 24” | warm white | 2700k | 234 | 120° | 2.8W / 240mA | IP68 | n/a | 36 | 3 |
| DI-0214 | 24” | cool white | 5000k | 234 | 120° | 2.8W / 240mA | IP68 | n/a | 36 | 3 |

See how this product compares with our other products on the comparison chart on page 86.

Two mounting clips and screws are included with each bar. For additional mounting clips, see page 82.

## Accessories



**Waterproof Plug to DC Adapter Connector**
**female** (item #DI-0710F)  7.5” x 0.4”
**male** (item #DI-0710M)  7.5” x 0.3”
Connects the SUNRISE Light Bar to a Plug-In Adapter and to DC accessories.

**Waterproof Solder Connector Pair**
(item #DI-0725)  4.7” x 0.3”
Connects the SUNRISE Light Bar to a Hard-Wired Driver. One pair included with each bar.

**Waterproof Male to Female Extension Cables**
Available Lengths: **6”** (item #DI-0757),
**12”** (item #DI-0758), **24”** (item #DI-0759),
**39”** (item #DI-0709)
Connector Width: 0.3”
Creates an extension between SUNRISE Light Bars.

**Additional SUNRISE Light Bar Mounting Clips**
(item #DI-0750) 0.6” x 0.5” x 0.4”
Qty of 10 clips and 10 Phillips head screws. (Two clips and screws are included with each bar.)

**REIGN 12V / 24V Dimmer Switches**
(page 73)
12V DC dimmers are connected between the 12V or 24V DC power supply and 12V or 24V LED fixture, and offer 100%-0% dimming, Limit of 100W.

**Adapter Splice Cable - female**
(item #DI-0712F)  42” x 0.45”

**39” DC Extension Cable**
(item #DI-0708)  39.4” x 0.5”
Creates an extension between any fixtures or accessories that use DC plugs.

**DC Wire Plug**
female white (item #DI-1713F)
male white (item #DI-1713M)
1.6” x 0.6” x 0.5”
Converts two-strand wire to a DC plug without soldering.

**Waterproof Splitter Cable**
**2-way** (item #DI-0804)
**3-way** (item #DI-0805)
**5-way** (item #DI-0806)
8” x 1” x 0.3”
Connects several SUNRISE Light Bars to one power source.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7” x 0.4”
**3-Way** (item #DI-0705) 8” x 0.6”
**5-Way** (item #DI-0707) 8” x 0.6”
Connects several Waterproof Plug to DC Adapter Connectors to one Plug-In Adapter.

# CASCADE Light Bar

The CASCADE Light Bar is twice as bright as the SUNRISE Light Bar, using high-power tri-chip SMD bulbs. It's dimmable, waterproof (but not submersible), and wet location rated (IP68). With its compact size, this super bright fixture makes a great alternative to the fluorescent tube. This light bar requires a low amount of electricity to power it, only 3.6 - 7.2 Watts per bar, and gives off very little heat, making it perfect to light heat-sensitive items such as plants, food, wine, and art.

The CASCADE Light Bar can be used in many indoor and outdoor applications:
- Patio, deck, yard, garden, greenhouse, and pool lighting
- Walk-in coolers, grocery stores, and deli counters
- Kitchens, bathrooms, and laundry rooms
- Basements, poolhouses, and garages
- Spas, restaurants, bars, lounges, clubs, and coffee shops
- Wine caves and cellars (no UV radiation and low heat)
- Vehicular accent lighting for cars, trucks, limousines, and RVs (no transformer needed)
- Motor boats, fishing boats, yachts, and cruise ships

Each CASCADE Light Bar comes with **two mounting clips and screws, and a pair of solder connectors** for connection to a hard-wired driver. Additional CASCADE mounting clips (item #DI-0752) are available in packages of ten. *Not recommended as submersible or for use in or around treated, chlorinated or salt water.*

To see the color-changing CASCADE RGB Light Bar, go to page 40.

## Highlights

- **ETL Listed (Conforms to UL 2108)**
- **Dimmable**
- **Waterproof (IP68)**
- Height: 0.4"
- Connector: 3.5" waterproof plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

See the Single Bar Kit on page 63

0.6"

connector = 3.5"

0.8" between centers

**Actual width size shown**
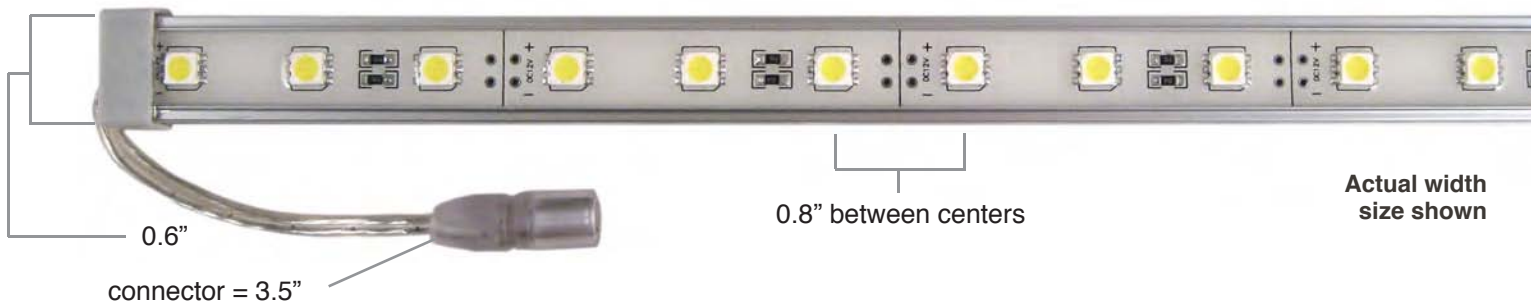
## Technical Specifications: CASCADE Light Bar

| item # | length | color | color temp. | lumens | beam angle | power consumption | IP rating | CRI | # of LEDs | max. bars per run |
|--------|--------|-------|-------------|--------|------------|-------------------|-----------|-----|-----------|-------------------|
| DI-0220 | 12" | warm white | 2700k | 310 | 120° | 3.6W / 300mA | IP68 | 75 | 15 | 6 |
| DI-0221 | 12" | cool white | 5000k | 310 | 120° | 3.6W / 300mA | IP68 | 80 | 15 | 6 |
| DI-0222 | 23.8" | warm white | 2700k | 615 | 120° | 7.2W / 600mA | IP68 | 75 | 30 | 3 |
| DI-0223 | 23.8" | cool white | 5000k | 615 | 120° | 7.2W / 600mA | IP68 | 80 | 30 | 3 |

See how this product compares with our other products on the comparison chart on page 86.
See the CASCADE 12" Light Bar Kit on page 63.
Two mounting clips and screws are included with each bar. For additional mounting clips, see page 82.

## Accessories

**Waterproof Plug to DC Adapter Connector**
**female** (item #DI-0710F)  7.5" x 0.4"
**male** (item #DI-0710M)  7.5" x 0.3"
Connects the CASCADE Light Bar to a Plug-In Adapter and to DC accessories.

**Waterproof Male to Female Extension Cables**
Available Lengths: **6"** (item #DI-0757),
**12"** (item #DI-0758), **24"** (item #DI-0759),
**39"** (item #DI-0709)
Connector Width: 0.3"
Creates an extension between CASCADE Light Bars.

**Waterproof Solder Connector Pair**
(item #DI-0725)  4.7" x 0.3"
Connects the CASCADE Light Bar to a Hard-Wired Driver. One pair included with each bar.

**Additional CASCADE Light Bar Mounting Clips**
(item #DI-0752) 0.75" x 0.5" x 0.6"
Qty of 10 clips and 10 Phillips head screws.
Two clips and screws are included with each bar.

**REIGN 12V / 24V Dimmer Switches**
(page 73)
The REIGN Dimmer is connected between the 12V or 24V DC power supply and 12V or 24V LED fixture, and offers 100%-0% dimming. Limit of 100W.

**Adapter Splice Cable - female**
((item #DI-0712F)  42" x 0.45"
Connects the CASCADE Light Bar to a Hard-Wired Driver without cutting wires.

**Waterproof Splitter Cable**
**2-way** (item #DI-0804)
**3-way** (item #DI-0805)
**5-way** (item #DI-0806)
8" x 1" x 0.3"
Connects several CASCADE Light Bars to one power source.

**39 Inch DC Extension Cable**
(item #DI-0708) 39.4" x 0.5"
Creates an extension between any fixtures or accessories that use DC plugs.

**DC Wire Plug**
female white (DI-1713F)
male white (DI-1713M)
1.6" x 0.6" x 0.5"
Converts two-strand wire to a DC plug without soldering.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Waterproof Plug to DC Adapter Connectors to one Plug-In Adapter.

# TRUE FOCUS LED Tube Light

The TRUE FOCUS LED Tube Light is one of our most efficient fixtures, with an energy usage of just 1.44 to 3.6 Watts per tube. The dimmable TRUE FOCUS LED Tube's compact size fits into almost any space, while offering maximum adjustability: the included mounting clips allow you to position the bar at just the angle you need, for back wash or uplighting. This under cabinet light bar makes an excellent replacement light fixture to the fluorescent tube. Being green has never been this simple!

This TRUE FOCUS Tube has many indoor uses:
- Restaurants, retail stores, bars, lounges, and casinos
- Lighting art, accent pieces, and framed photos
- Wine caves (no UV emissions)
- Under cabinet lighting, shelves, cupboards, closets, and drawers
- Coin-operated vending machines and arcade games
- Architectural models and doll houses
- Boat interiors

TRUE FOCUS Tubes require very little electricity, which means they are safe, so there is no danger of shock, and they give off very little heat, making them perfect to light heat-sensitive items such as paintings, food, and wine. Every TRUE FOCUS comes with **two mounting clips and screws, and a pair of solder connectors** for connection to a Hard-Wired Driver (p. 72). Installation of the TRUE FOCUS is simple: each clip is attached to the surface with one screw. Additional mounting clips (item #DI-0751) are available in packs of ten.
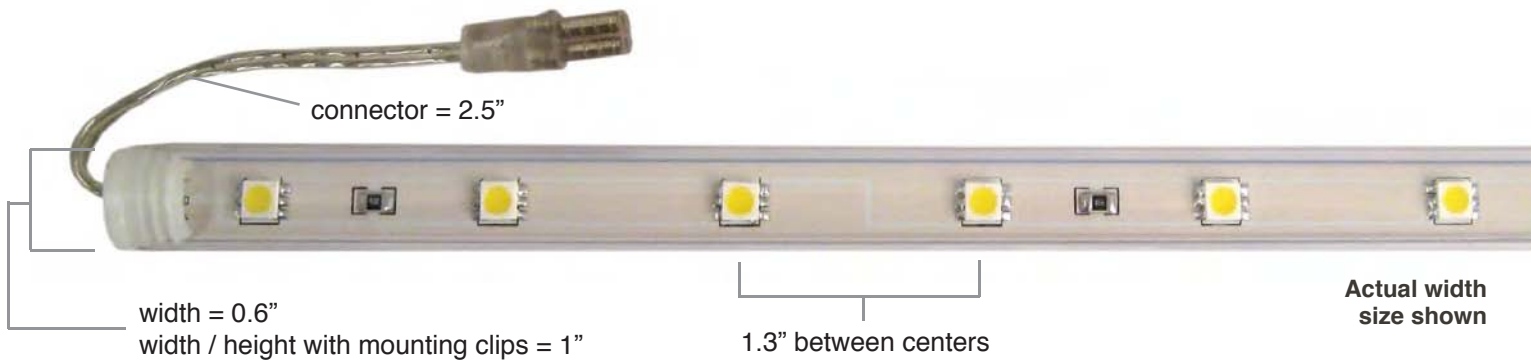
To see the TRUE FOCUS Color-Changing Tube Light, go to page 42.

## Highlights

- **ETL Listed (Conforms to UL 2108)**
- **Title 24**
- **Adjustable light direction**
- **Dimmable**
- Diameter: 0.6"
- Connector: 2.5" waterproof plug
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

connector = 2.5"

width = 0.6"
width / height with mounting clips = 1"

1.3" between centers

**Actual width size shown**

## Technical Specifications: TRUE FOCUS LED Tube Light

| item # | length | color | color temp. | lumens | beam angle | power consumption | IP rating | CRI | # of LEDs | max. bars per run |
|--------|--------|-------|-------------|--------|------------|-------------------|-----------|-----|-----------|-------------------|
| DI-0255 | 8.9" | warm white | 2700k | 120 | 120° | 1.44W / 120mA | IP64 | 75 | 6 | 7 |
| DI-0256 | 8.9" | cool white | 5000k | 120 | 120° | 1.44W / 120mA | IP64 | 80 | 6 | 7 |
| DI-0250 | 13" | warm white | 2700k | 180 | 120° | 2.16W / 180mA | IP64 | 75 | 9 | 6 |
| DI-0251 | 13" | cool white | 5000k | 180 | 120° | 2.16W / 180mA | IP64 | 80 | 9 | 6 |
| DI-0252 | 19.9" | warm white | 2700k | 300 | 120° | 3.6W / 300mA | IP64 | 75 | 15 | 5 |
| DI-0253 | 19.9" | cool white | 5000k | 300 | 120° | 3.6W / 300mA | IP64 | 80 | 15 | 5 |

See how this product compares with our other products on the comparison chart on page 86.
Two mounting clips and screws are included with each bar. For additional mounting clips, see page 82.

## Accessories

**Waterproof Plug to DC Adapter Connector**
**female** (item #DI-0710F)  7.5" x 0.4"
**male** (item #DI-0710M)  7.5" x 0.3"
Connects the TRUE FOCUS Tube Light to a Plug-In Adapter and to DC accessories.

**Waterproof Male to Female Extension Cables**
Available Lengths: **6"** (item #DI-0757),
**12"** (item #DI-0758), **24"** (item #DI-0759),
**39"** (item #DI-0709)
Connector Width: 0.3"
Creates an extension between TRUE FOCUS Tube Lights.

**Waterproof Solder Connector Pair**
(item #DI-0725)  4.7" x 0.3"
Connects the TRUE FOCUS Tube Light to a Hard-Wired Driver. One pair included with each bar.

**Additional TRUE FOCUS Tube Mounting Clips**
(item #DI-0751) 0.9" x 0.9" x 0.4"
Qty of 10 clips and 10 Phillips head screws. Two clips and screws are included with each bar.

**REIGN 12V / 24V Dimmer Switches**
(page 73)
The REIGN Dimmer is connected between the 12V or 24V DC power supply and 12V or 24V LED fixture, and offers 100%-0% dimming. Limit of 100W.

**Waterproof Splitter Cable**
**2-way** (item #DI-0804)
**3-way** (item #DI-0805)
**5-way** (item #DI-0806)
8" x 1" x 0.3"
Connects several TRUE FOCUS Tube Lights to one power source.

**Adapter Splice Cable - female**
(item #DI-0712F)  42" x 0.45"

**Adapter Splice Cable - male**
(item #DI-0712M) 42" x 0.45"

**39 Inch DC Extension Cable**
(item #DI-0708)  39.4" x 0.5"
Creates an extension between any fixtures or accessories that use DC plugs.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Waterproof Plug to DC Adapter Connectors to one Plug-In Adapter.

# ARRAY 24V Linkable Light Bars

The ARRAY 24V Linkable Light Bar features a modular design that allows you to create seamless LED light installations. With the use of the included ARRAY Bar-to-Bar Connector (item #DI-0266), any two ARRAY bars of any length can be directly joined end-to-end. This means there are no gaps in the light put out by these sleek and compact bars. As many as twelve 11.8 inch bars can be joined and powered by one 24V DC source. Each ARRAY bar comes with two ARRAY Mounting Clips and two screws (item #DI-0274), and two ARRAY Bar-to-Bar Connectors (item #DI-0266).

The ARRAY Light Bar has many indoor uses: shelving, under or over cabinets, inside cabinets and drawers, or as accent and cove lighting. The ARRAY bar is low-profile enough to be tucked away out of sight, but its sturdy and modern aluminum housing makes it a sleek designer light fixture. And it's dimmable with our REIGN 12V/24V Dimmer Switches (p. 75).

This direct link light bar is super bright, since it is equivalent in brightness to our TRUE FOCUS Tube Light. This light bar requires very little electricity to power it, only 1.65 - 6.6 Watts per bar, and gives off very little heat, making it perfect to light heat-sensitive items such as plants, food, wine, and fine art.
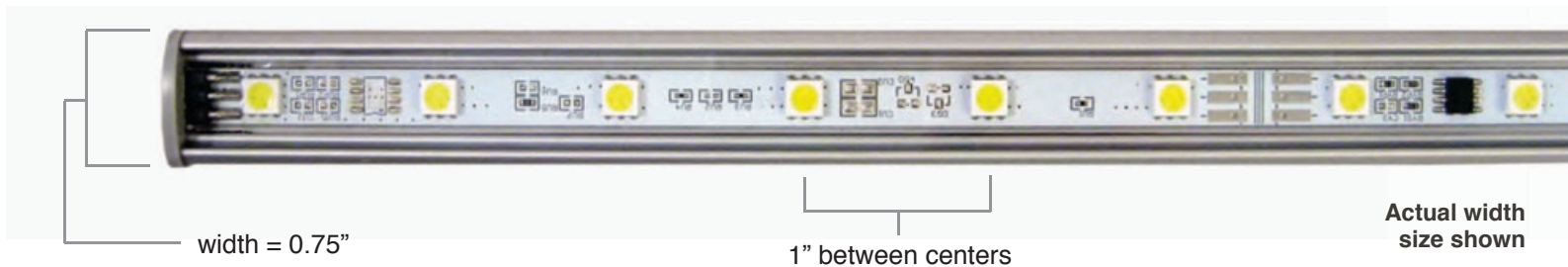
For use with the 24V DC Power Supplies listed on page 77.

## Highlights

- **UL Listed**
- **Dimmable**
- Height: 0.4"
- **Voltage: 24V DC**
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

width = 0.75"

1" between centers

**Actual width size shown**

## Technical Specifications: ARRAY 24V Linkable Light Bar

| item # | length | color | color temp. | lumens | beam angle | voltage | power consumption | CRI | # of LEDs | max. bars on one run |
|--------|--------|-------|-------------|--------|-----------|---------|-------------------|-----|-----------|----------------------|
| DI-1260 | 5.9 in. | warm white | 2800k | 95 | 120° | 24V DC | 1.65W / 140mA | 70 | 6 | 24 |
| DI-1290 | 5.9 in. | neutral white | 4100k | 110 | 120° | 24V DC | 1.65W / 140mA | 70 | 6 | 24 |
| DI-1261 | 5.9 in. | cool white | 5650k | 110 | 120° | 24V DC | 1.65W / 140mA | 70 | 6 | 24 |
| DI-1262 | 11.8 in. | warm white | 2800k | 190 | 120° | 24V DC | 3.3W / 280mA | 70 | 12 | 12 |
| DI-1291 | 11.8 in. | neutral white | 4100k | 220 | 120° | 24V DC | 3.3W / 280mA | 70 | 12 | 12 |
| DI-1263 | 11.8 in. | cool white | 5650k | 220 | 120° | 24V DC | 3.3W / 280mA | 70 | 12 | 12 |
| DI-1264 | 23.6 in. | warm white | 2800k | 380 | 120° | 24V DC | 10W / 833mA | 70 | 24 | 4 |
| DI-1292 | 23.6 in. | neutral white | 4100k | 440 | 120° | 24V DC | 10W / 833mA | 70 | 24 | 4 |
| DI-1265 | 23.6 in. | cool white | 5650k | 440 | 120° | 24V DC | 10W / 833mA | 70 | 24 | 4 |
| DI-1280 | 35.5 in. | warm white | 2800k | 570 | 120° | 24V DC | 15W / 1.25A | 70 | 36 | 2 |
| DI-1293 | 35.5 in. | neutral white | 4100k | 660 | 120° | 24V DC | 15W / 1.25A | 70 | 36 | 2 |
| DI-1281 | 35.5 in. | cool white | 5650k | 660 | 120° | 24V DC | 15W / 1.25A | 70 | 36 | 2 |
| DI-1282 | 47.3 in. | warm white | 2800k | 720 | 120° | 24V DC | 20W / 1.67A | 70 | 48 | 2 |
| DI-1294 | 47.3 in. | neutral white | 4100k | 880 | 120° | 24V DC | 20W / 1.67A | 70 | 48 | 2 |
| DI-1283 | 47.3 in. | cool white | 5650k | 880 | 120° | 24V DC | 20W / 1.67A | 70 | 48 | 2 |

See how this product compares with our other products on the comparison chart on page 86.
Two mounting clips and screws are included with each bar. For additional mounting clips, see page 82.

NEW COLOR TEMPERATURE NEUTRAL WHITE

NEW VOLTAGE 24V DC
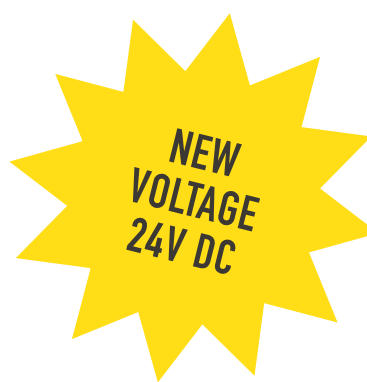
## Accessories

Accessories are shown on the following page.

# ARRAY 24V Linkable Light Bar Accessories
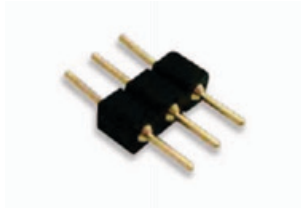


**Bar-to-Bar Connector**
0.45" x 0.3" x 0.1" (item #DI-0266)
Qty of 25 (item #DI-0266-25)
Qty of 50 (item #DI-0266-50)
Seamlessly connects two bars.
A pair comes with each bar.



**9" Bar-to-Bar Extension Cable**
9" x 0.4" x 0.3" (item #DI-0267)
Extension between two bars.



**39" Bar-to-Bar Extension Cable**
39" x 0.4 x 0.2" (item #DI-0268)
Extension between two bars.



**Cable-to-Cable Extension Connector**
0.5" x 0.4 x 0.2" (item #DI-0269)
Connects any two Bar-to-Bar
Extension Cables.



**Cable-to-Cable Splitter Connector**
1.45" x 0.8" x 0.2" (item #DI-0270)
One input and four outputs power
four unlinked bars with the same
source.



**Bar-to-Adapter Cable**
11.5" x 0.4 x 0.2" (item #DI-0271)
Connects a bar to a Plug-In Adapter with a straight-type bar plug.



**Right Angle Bar-to-Adapter Cable**
19" x 0.4 x 0.2" (item #DI-0272)
Connects a bar to a Plug-In Adapter
with a right-angle-type bar plug.



**39" Bar-to-Adapter Extension Cable**
39" x 0.4 x 0.2" (item #DI-0273)
Extension between a bar and the
Bar-to-Adapter Cables (#DI-0271
and # DI-0275).



**90° Bending Extension**
2.2" x 0.4" x 0.2" (item #DI-0277)
Connects two bars with a joint that
bends 0° - 90°.



**On/Off Switch**
12.5" x " 0.8" x 0.75" (item #DI-0275)
Cables length: 7"
Connects a bar and Plug-In Adapter.



**Hard-Wire Connector**
19.5" x 0.4" x 0.2" (item #DI-0276)
Qty of 25 (item #DI-0276-25)
Qty of 50 (item #DI-0276-50)
Directly connects a bar to a Hard-
Wired Driver.



**Right Angle Hard-Wire Connector**
39" x 0.4" x 0.2" (item #DI-0279)
Directly connects a bar to a Hard-
Wired Driver.



**Array In-Line Dimmer**
2" x 1.75" x 0.5" (item #DI-0295)
With the same dimensions as the
Array bar, it attaches seemlessly
into any array installation.



**REIGN 12V / 24V Dimmer Switches** (page 73)
The REIGN DImmer is connected
between the 12V or 24V DC power
supply and 12V or 24V LED fixture,
and offers 100%-0% dimming. Limit
of 100W.



**Mounting Clips and Screws Pair**
(item #DI-0274) / Qty of 25 (item
#DI-0274-25) / Qty of 50 (item #DI-
0274-50)
One pair of this clip is included with
each bar and three clips included
with 35.5" and 47.3" bars.



**45° Angle Mounting Clips
and Screws pair**
(item #DI-0278)
Qty of 25 (item #DI-0278-25)
Qty of 50 (item #DI-0278-50)
Mounts a bar at a 45° angle.

# CASCADE LED Light Bar Kit

We offer the LED Light Bar kit as a quick and easy way to get everything you need for an LED lighting installation. Each plug-and-play kit includes an LED light, a Plug-In Adapter, an Inline On/Off Switch, and an extension that help give you a maximum of installation options. These are self-contained kits and need no special tools for assembly.

This LED Light Bar Kit is perfect for:

- Shelves
- Closets
- Work benches
- Desks
- Cupboards

- *Outoodr/Indoor*
- *Plug-and-play*
- *Do it yourself*
- *Minutes to assemble*
- *Low heat*

**CASCADE**
**12" Light Bar Kit**
Warm White (item #DI-0192)

**Includes:**
1 x 12" CASCADE Light Bar
1 x Inline On/Off Switch
1 x 39 Inch DC Extension Cable
1 x 6 Watt Plug-In Adapter
1 x pair mounting clips and screws

# CAST LED Puck Light

An excellent substitute for hot halogen and unsightly fluorescent lighting, the CAST LED Puck Light is a slim, modern, and earth-friendly indoor light fixture. CAST LED Puck Lights are available in two versions: dimmable and non-dimmable. This puck light is perfect for all recessed cabinet and under cabinet lighting, as well as furniture, shelf, display-case, and accent lighting. Producing 270 lumens of light output while consuming a mere 3.6 Watts of electricity, the CAST LED Puck Light is your brightest option available. That's only 10% of the power used by a halogen or other incandescent fixture of equal brightness.

Just half an inch deep and made of sturdy aluminum, each puck is packed with 3 high power LED chips that will supply warm or cool white light to any bookshelf, built-in cabinet, or cove, and it's made-to-measure for kitchen lighting and any room in the home. Each puck **comes with two mounting screws** that make for easy installation.

CAST LED Puck Lights will outlast fluorescent tubes and CFLs by as much as 5 times and outperform them by using a fraction of the energy. This puck does not emit any UV or Infrared light, and very little heat.

c **UL** us
LISTED

RoHS compliant

## Highlights

- **UL Listed**
- **Dimmable or Non-Dimmable**
- **Can be recessed or surface-mounted**
- Power Consumption: 3.6W / 300mA
- Diameter: 2.75" / Depth: 0.56"
- Cut-out (for recessing): 2.55"
- Connector type: 36" female DC plug
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

black finish
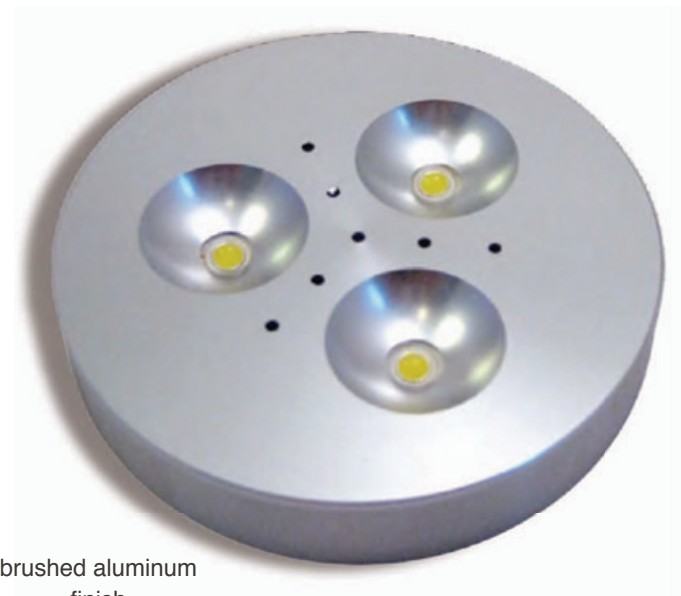
brushed aluminum
finish

**Actual width size shown**

## Technical Specifications: CAST LED Puck Light

| item # | dimmable | finish | color | color temp. | lumens | beam angle | IP rating | CRI | # of LEDs |
|---|---|---|---|---|---|---|---|---|---|
| DI-0330-AL | no | brushed aluminum | warm white | 3050k | 240 | 120° | IP63 | 68 | 3 |
| DI-0330-BK | no | black | warm white | 3050k | 240 | 120° | IP63 | 68 | 3 |
| DI-0331-AL | no | brushed aluminum | cool white | 5750k | 270 | 120° | IP63 | 70 | 3 |
| DI-0331-BK | no | black | cool white | 5750k | 270 | 120° | IP63 | 70 | 3 |
| DI-0332-AL | yes | brushed aluminum | warm white | 3050k | 240 | 120° | IP63 | 68 | 3 |
| DI-0332-BK | yes | black | warm white | 3050k | 240 | 120° | IP63 | 68 | 3 |
| DI-0333-AL | yes | brushed aluminum | cool white | 5750k | 270 | 120° | IP63 | 70 | 3 |
| DI-0333-BK | yes | black | cool white | 5750k | 270 | 120° | IP63 | 70 | 3 |

One mounting ring and two screws are included with each puck light.

## Accessories

**REIGN 12V / 24V Dimmer Switches**
(page 73)
The REIGN DImmer is connected between the 12V or 24V DC power supply and 12V or 24V LED fixture, and offers 100%-0% dimming. Limit of 100W.

**Inline Dimmer Switch**
(item #DI-0715)  2.6" x 1.4" x 1.3"
Allows you to dim the dimmable version of the CAST LED Puck Light.

**Inline On/Off Switch**
(item #DI-0714)  9" x 2.5"
This 12V-24V switch with male and female plugs connects directly to the CAST LED Puck Light and any accessories with DC plugs.

**39 Inch DC Extension Cable**
(item #DI-0708)  39.4" x 0.5"
Creates an extension between any fixtures or accessories that use DC plugs.

**Adapter Splice Cable - male**
(item #DI-0712M) 42" x 0.45"
Connects CAST LED Puck Lights and DC Splitter Plugs to a hard-wired driver.

**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Waterproof Plug to DC Adapter Connectors to one Plug-In Adapter.

# CAST Puck Light Kits

We offer LED Light kits as a quick and easy way to get everything you need for an LED lighting installation. Each plug-and-play kit includes LED lights, a Plug-In Adapter, an Inline Dimmer Switch or Inline On/Off Switch, and assorted DC connectors that help give you a maximum of installation options. These are self-contained kits and need no special tools for assembly.

- *Plug-and-play*
- *Do it yourself*
- *Minutes to assemble*
- *Recessed or surface-mount*
- *Low heat*

**CAST Dimmable Brushed Aluminum 5 Puck Light Kit**
warm white (item #DI-0185)
cool white (item #DI-0186)

**Includes:**
5 x CAST Puck Lights
1 x 5-Way DC Splitter
2 x 39 Inch DC Extension Cables
1 x Inline Dimmer Switch
1 x 36 Watt Plug-In Adapter

**CAST Dimmable Brushed Aluminum 3 Puck Light Kit**
warm white (item #DI-0183)
cool white (item #DI-0184)

**Includes:**
3 x CAST Puck Lights
1 x 3-Way DC Splitter
1 x Inline Dimmer Switch
1 x 36 Watt Plug-In Adapter

**CAST Single Puck Light Kit**
warm white (item #DI-0193)

**Includes:**
1 x CAST Puck Light
1 x Inline On/Off Switch
1 x 39 Inch DC Extension Cable
1 x 6 Watt Plug-In Adapter

# SPLASH Series Industrial LED Wall Washers

**TOUGH MOUNTING BRACKETS FOR EASY INSTALL**

**49" Wall Washer**
(item #DI-0452, DI-0453, DI-0454, DI-0455)
49" x 3" x 2.74"
Weight: 13.5 lbs.

Diode LED's longest and slimmest wall washer, at under 3 inches wide, the 49 Inch Wall Washer hugs close to a wall or or ceiling. This wall washer is ideal for billboards and other outdoor signage, as well as exterior architectural applications. Heat shrink tubes included. Comes with two sturdy mounting brackets.

**PAR 64 Wall Washer**
(item #DI-0472, DI-0473, DI-0474, DI-0475)
7" x 7" x 8"
Weight: 8 lbs. 11 oz.

This LED spotlight is only 7 inches in diameter, so it can tbe used for stage and theater spotlighting, club flood lighting, and exterior and interior architectural accent lighting. It has a projection distance of up to 115 feet (in the 15° version). Heat shrink tubes included.

**TOUGH MOUNTING BRACKET FOR EASY INSTALL**

**13" Wall Washer**
(item #DI-0462, DI-0463, DI-0464, DI-0465)
13" x 5.1" x 3.2"
Weight: 11 lbs.

Just over a foot long and only 5 inches wide, this multi-color light contains 36 high-power LEDs that are enough to light a 200 or more square foot room, and have a projection distance of 65 feet. It is water resistant and wet location rated, so use it to decorate both indoor and outdoor settings. Sturdy aluminum mounting bracket and heat shrink tubes included.

## Technical Specifications: SPLASH Series Industrial LED Wall Washers

| item # | product | color | color temp. | projection distance | lumens | beam angle | power consumption | IP rating | # of LEDs | max. daisy-chain |
|--------|---------|-------|-------------|--------------------|--------|------------|-------------------|-----------|-----------|------------------|
| DI-0452 | 49" Wall Washer | warm white | 3200k | 16.4 ft. | 3,060 | 45° | 56W max. | IP65 | 36 | 10 washers |
| DI-0453 | 49" Wall Washer | warm white | 3200k | 65 ft. | 3,060 | 15° | 56W max. | IP65 | 36 | 10 washers |
| DI-0454 | 49" Wall Washer | cool white | 4450k | 16.4 ft. | 3,420 | 45° | 56W max. | IP65 | 36 | 10 washers |
| DI-0455 | 49" Wall Washer | cool white | 4450k | 65 ft. | 3,420 | 15° | 56W max. | IP65 | 36 | 10 washers |
| DI-0472 | PAR 64 Wall Washer | warm white | 3200k | 16.5 ft. | 3,060 | 45° | 55W max. | IP65 | 36 | 10 washers |
| DI-0473 | PAR 64 Wall Washer | warm white | 3200k | 115 ft. | 3,060 | 15° | 55W max. | IP65 | 36 | 10 washers |
| DI-0474 | PAR 64 Wall Washer | cool white | 4450k | 16.5 ft. | 3,420 | 45° | 55W max. | IP65 | 36 | 10 washers |
| DI-0475 | PAR 64 Wall Washer | cool white | 4450k | 115 ft. | 3,420 | 15° | 55W max. | IP65 | 36 | 10 washers |
| DI-0462 | 13" Wall Washer | warm white | 3200k | 16.4 ft. | 3,060 | 45° | 55W max. | IP65 | 36 | 10 washers |
| DI-0463 | 13" Wall Washer | warm white | 3200k | 65 ft. | 3,060 | 15° | 55W max. | IP65 | 36 | 10 washers |
| DI-0464 | 13" Wall Washer | cool white | 4450k | 16.4 ft. | 3,420 | 45° | 55W max. | IP65 | 36 | 10 washers |
| DI-0465 | 13" Wall Washer | cool white | 4450k | 65 ft. | 3,420 | 15° | 55W max. | IP65 | 36 | 10 washers |

# SUNSPOT Module Light

The SUNSPOT Module Light is a plug-and-play, compact LED light fixture that is sold by the module, allowing you to install as many lights virtually anywhere you need to. This light module features a waterproof plug that connects to a 12V Plug-In Adapter with the LED Light Bar Adapter Cable, and connects to a 12V Hard-Wired Driver using the Waterproof Solder Connector. This IP68-rated module is perfect for use in wet locations such as decks and railings, in displays and exhibits, and for small spotlighting. It is available with either a light beam angle of 15° that provides more focused spot light, or with the wider 45° beam angle, which has more of a flood light spread.

Due to its compact size (roughly 1.1 inches high and only 1.5 inches wide), the SUNSPOT Module can be used discreetly in open areas indoors or outdoors. You can have as many or as few modules as you like in applications such as:
- Patios and decks
- Stairways and aisles
- Marker lighting
- Indoor and outdoor signs
- Shadow boxes and light boxes
- Glass tables
- Vending and gaming machines
- Shop windows

SUNSPOT Module Lights are the perfect tool for the "do-it-yourselfer", letting you decide how much and exactly where the light for your project will be, with minimal setup.

## Highlights

- **Wet Location**
- **Non-Dimmable**
- **Surface-Mount only**
- Power Consumption: 3W
- Diameter: 1.55" / Height: 1.1"
- Connector type: 36" female waterproof plug
- Voltage: 12V DC
- IP Rating: wet location / outdoor
- Connector Type: female waterproof plug
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

## Technical Specifications: SUNSPOT Module Light

| item # | beam angle | diameter | weight | color | color temp. | lumens | IP rating | CRI | # of LEDs |
|--------|-----------|----------|--------|-------|-------------|--------|-----------|-----|-----------|
| DI-1440 | 45° | 1.55" | 3 oz. | warm white | 2800k | 80 | IP65 | 72 | 1 |
| DI-1441 | 45° | 1.55" | 3 oz. | cool white | 5750k | 98 | IP65 | 77 | 1 |
| DI-1442 | 15° | 1.55" | 3 oz. | warm white | 2800k | 80 | IP65 | 72 | 1 |
| DI-1443 | 15° | 1.55" | 3 oz. | cool white | 5700k | 98 | IP65 | 77 | 1 |
| DI-1430 | 45° | 1.55" | 3 oz. | red | 625nm | n/a | IP65 | n/a | 1 |
| DI-1431 | 45° | 1.55" | 3 oz. | green | 530nm | n/a | IP65 | n/a | 1 |
| DI-1432 | 45° | 1.55" | 3 oz. | blue | 465nm | n/a | IP65 | n/a | 1 |
| DI-1433 | 45° | 1.55" | 3 oz. | amber | 595nm | n/a | IP65 | n/a | 1 |
| DI-1434 | 45° | 1.55" | 3 oz. | purple | 405nm | n/a | IP65 | n/a | 1 |

## Accessories



**Waterproof Plug to DC Adapter Connector**
male (item #DI-0710M)  7.5" x 0.3"
Connects the SUNSPOT Module Light to a Plug-In Adapter and to DC accessories.



**Waterproof Splitter Cable**
2-way (item #DI-0804)
3-way (item #DI-0805)
5-way (item #DI-0806)
Connects several SUNSPOT Module Lights to one power source. Features one female plug and 2, 3, or 5 male plugs.



**Waterproof Male to Female Extension Cables**
Available Lengths: **6"** (item #DI-0757), **12"** (item #DI-0758), **24"** (item #DI-0759), **39"** (item #DI-0709)
Connector Width: 0.3"
Creates an extension between SUNSPOT Module Lights.



**DC Splitter Plugs**
**2-Way** (item #DI-0720) 5.7" x 0.4"
**3-Way** (item #DI-0705) 8" x 0.6"
**5-Way** (item #DI-0707) 8" x 0.6"
Connects several Waterproof Plug to DC Adapter Connectors to one Plug-In Adapter.



**Waterproof Solder Connector Pair**
(item #DI-0725)  4.7" x 0.3"
Connects the SUNSPOT Module Light to a Hard-Wired Driver.



**Inline On/Off Switch**
(item #DI-0714)  9" x 2.5"
This 12V-24V switch with male and female plugs connects directly to any accessories with DC plugs.

# BEACON Exit Sign Light Retrofit

The BEACON Exit Sign Light Retrofit is the ideal replacement bulb kit for exit signs. Just as with conventional LED lighting, BEACON Exit Sign Light Bulbs consume only a fraction of the electricity of typical exit signage. The manufacturing of these LED lights produces far less pollution than that of incandescent bulbs. The upgraded energy-efficiency and reduced environmental impact of lighted signs that use LEDs have numerous benefits, but these LED lights also offer increased brightness and lighting contrast, and a longer lifespan of 50,000 hours, so you don't need to worry about them running up the bill or burning out from being on all day and night. Low heat LED lights are safer than traditional bulbs.

This all-inclusive BEACON Exit Sign Light Retrofit comes with two 12V DC LED bulbs (featuring an E12/E15 candelabra base) in red or green, and two pairs of two additional types of light fixture connectors to accommodate most exit signs, and these connectors are easy to use, so replacing your incandescent bulbs with them is a breeze. These lighting modules are great to retrofit signage.

The included connector sizes are:
- Intermediate
- BA9S Bayonet

These plug-and-play LED sign lights offer more luminosity than standard incandescent lighting. They are also free of flickering and humming, so they're more consistent and reliable than fluorescent lights. With their low energy consumption and long life, BEACON Exit Sign Light Retrofits can be left on for long periods of time, delivering the best lighting available while decreasing pollution and keeping costs down at the same time.

## Highlights

- **ETL Listed**
- **Conforms to UL 924**
- **Red or Green**
- **No transformer needed**
- **Screws right into existing socket**
- Power Consumption: 1.4W
- Height: 4.75"
- Width: 1.6"
- Depth: 0.6"
- Bulb Shape: T6-1/2 (candelabra)
- Voltage: 12V DC
- IP Rating: indoor
- Lamp Life: 50,000 hours
- **Please see Product Specification Sheet for complete details at www.DiodeLED.com**

## Technical Specifications: BEACON Exit Sign Light Retrofit

| item # | dimmable | weight | color | power consumption | beam angle | IP rating | # of LEDs |
|--------|----------|--------|-------|-------------------|------------|-----------|-----------|
| DI-0390 | no | 3 oz. | red | 1.4W | 120° | IP50 | 23 |
| DI-0391 | no | 3 oz. | green | 1.4W | 120° | IP50 | 23 |

# Power Supplies & Transformers

Most of Diode LED's lights are 12V DC fixtures; the ULTRA BLAZE 24V High Output Strip Light and the ARRAY 24V Linkable Light Bar are 24V DC fixtures. SPLASH Series Industrial Wall Washers are 24V fixtures that plug directly into a wall outlet. 12V lights require a transformer to convert standard household 120V AC power to 12V DC, while 24V lights require a transformer to convert 120V AC power to 24V DC. Diode LED offers three types of transformer:

- Plug-In Adapter
- Hard-Wired Non-Dimmable Driver
- Hard-Wired Dimmable Driver

## 12V Hard-Wired Non-Dimmable Drivers

Hard-Wired Non-Dimmable Drivers should be hard-wired to household AC power by a licensed electrician. Any of our dimmable light fixtures, powered by a hard-wired driver, can be dimmed using the REIGN 12V in-wall switch (next page) or the Inline Dimmer Switch (page 75).

*Can be dimmed with the REIGN 12V/24V Dimmer Switch*

*Can be used with 4-Way and 8-Way Hard-Wire Terminal Blocks (page 83)*

**12V - 25 Watt Mini Class 2 Non-Dimmable Driver**
(item #DI-0939)  3.1" x 2.1" x 1.2"

**12V - 150 Watt Class 2 Non-Dimmable Driver**
(item #DI-0908) 8.25" x 3.9" x 2"

**12V - 20 Watt Class 2 Non-Dimmable Driver**
(item #DI-0904)  4.6" x 1.35" x 1"

**12V - 35 Watt Class 2 Non-Dimmable Driver**
(item #DI-0918)  5.75" x 1.5" x 1.2"

**12V - 60 Watt Class 2 Non-Dimmable Driver**
(item #DI-0906)  6.25" x 1.6" x 1.25"

*Can be used with the Meanwell Junction Box (page 83)*

**12V - 200 Watt Non-Dimmable Driver**
(item #DI-0909) 8.25" x 3.9" x 1.9"

**12V - 300 Watt Non-Dimmable Driver**
(item #DI-0928)  8.5" x 4.9" x 1.6"

**12V - 600 Watt Non-Dimmable Driver**
(item #DI-0929)  9.75" x 4.1" x 2.5"

*Note: 200W, 300W, and 600W drivers have an **audible** built-in fan for cooling.*

Note: All our power supplies are UL Listed or UL-Recognized Components. The manufacturer rates each power supply for maximum power output at optimum thermal and voltage conditions.  As with any power supply, true actual maximum continuous current output depends upon various environmental factors such as ambient temperature, line voltage fluctuations, and orientation that may affect heat dissipation. For optimum performance, do not load the power supply to more than 80% of its labeled rating.

**Button Slide**
(item #DI-1150-A)
(item #DI-1150-LA)
(item #DI-1150-W)

**Full Slide**
(item #DI-1151-A)
(item #DI-1151-LA)
(item #DI-1151-W)

**Touch Dimmer**
(item #DI-1152-A)
(item #DI-1152-LA)
(item #DI-1152-W)

*100% - 0% Dimming!*

*The first in-wall switch on the market made specifically for dimming LED lights.*

*NEW Now 100W Capacity 12V-24V*

# REIGN 12V-24V Dimmer Switches

REIGN 12V-24V Dimmer Switches are manufactured for Diode LED as electronic low voltage dimmers that fit right into a standard wall light switch box. These low voltage dimmers are connected between the 12V to 24V DC power supply and 12V to 24V LED fixture, and will dim any of Diode LED's lights that are dimmable. These stylish dimmers come in an attractive housing and are the ultimate LED retrofit accessory that allows you to take advantage of the full range of brightness of dimmable LEDs. REIGN Switches fit easily into a NEMA standard single-gang box, making it easy to create a seamless LED installation using your existing swtchbox.

Our line of REIGN Dimmer Switches includes three models: the Button Slide, the Full Slide, and the Touch Dimmer. The Button Slide dimmer features a compact slider and a button on/off switch; the Full Slide features an easy-to-grip slider and an on/off toggle switch; the Touch Dimmer features a sensitive touch pad. While most LED dimmers only dim to 40%, the REIGN offers a full 100% - 0% dimming range, with no flickering, humming, or jumping.

## Highlights

**ETL Listed (Conforms to UL 508)**
**Low Voltage**
Length: 4.5"
Width: 1.75"
Depth: 1.7"
Switch Type: electronic low voltage
Available finishes: White, Almond, and Light Almond

*Warning: 12V/24V DC only. Do not connect to 120V AC power.*

White      Almond      Light Almond

## Technical Specifications: REIGN 12V-24V Dimmer Switch

| item # | type | finish | input voltage | output voltage | maximum load | dimming range |
|--------|------|--------|---------------|----------------|--------------|---------------|
| DI-1150-A | Button Slide | almond | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1150-LA | Button Slide | light almond | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1150-W | Button Slide | white | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1151-A | Full Slide | almond | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1151-LA | Full Slide | light almond | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1151-W | Full Slide | white | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1152-A | Touch Dimmer | almond | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1152-LA | Touch Dimmer | light almond | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |
| DI-1152-W | Touch Dimmer | white | 12V-24V DC | 12V-24V DC | 100W | 0% - 100% |

# Power Supplies / Transformers

Most of Diode LED's lights are 12V DC fixtures; the ULTRA BLAZE 24V High Output Strip Light and the ARRAY 24V Linkable Light Bar are 24V DC fixtures. SPLASH Series Industrial Wall Washers are 24V fixtures that plug directly into a wall outlet, so no additional power supply is necessary. 12V lights require a transformer to convert standard household 120V AC power to 12V DC, while 24V lights require a transformer to convert 120V AC power to 24V DC. Diode LED offers three types of transformer:

- Plug-In Adapter
- Hard-Wired Non-Dimmable Driver
- Hard-Wired Dimmable Driver

## 12V Plug–In Adapters

Adapters plug into a standard electrical socket. Any of our dimmable light fixtures, powered by a plug-in adapter, can be dimmed using the REIGN 12V/24V in-wall switch (previous page) or the Inline Dimmer Switch (next page). Each adapter features a male DC plug.

*Can be dimmed and controlled with these 12V switches.*

**12V - 12 Watt Class 2 Listed Adapter**
(item #DI-0927)
2.35" x 1.75" x 1.4"
total cable length: 70"

**12V - 36 Watt Class 2 Listed Adapter**
(item #DI-0912)
3.8" x 1.75" x 1.4"
total cable length: 70"

**12V - 96 Watt Adapter**
(item #DI-0930)
6.8" x 2.5" x 1.6"
total cable length: 108"

**12V - 120 Watt Adapter**
(item #DI-0931)
6.8" x 2.5" x 1.6"
total cable length: 108"

*Note: 96W & 120W adapters have an **audible** built-in fan for cooling.*

**12V - 60 Watt Class 2 Listed Adapter**
(item #DI-0913)
4.7" x 2" x 1.25"
total cable length: 108"

Note: All our power supplies are UL Listed or UL-Recognized Components. The manufacturer rates each power supply for maximum power output at optimum thermal and voltage conditions. As with any power supply, true actual maximum continuous current output depends upon various environmental factors such as ambient temperature, line voltage fluctuations, and orientation that may affect heat dissipation. For optimum performance, do not load the power supply to more than 80% of its labeled rating.

# 12V–24V Switches

Our 12V to 24V Switches all feature DC plugs that make them compatible with any of our DC accessories. Any of our dimmable light fixtures powered by plug-in adapters or the standard hard-wired drivers can be dimmed using the Inline Dimmer Switch. *Note: these switches are compatible with non-dimmable hard-wired drivers and plug-in adapters only.*



**Inline Dimmer Switch**
black (item #DI-0715-B)
white (item #DI-0715)
switch: 2.6" x 1.4" x 1.3"
cable lengths: 7.8"

This 12V-24V switch dims any of Diode's dimmable fixtures and can be used with any Diode Plug-In Adapter or Hard-Wired Driver. The Inline Dimmer features male and female plugs that connect directly to any accessories with DC plugs and CAST Puck Lights. They can be used with all single color Strip Lights. Not compatible with our Hard-Wired Dimmable Drivers. This switch has a 24W limit. *Note: This switch makes a slight **audible** noise.*



**Inline On/Off Switch**
black (item #DI-0714-B)
white (item #DI-0714)
switch: 2.5" x 0.9" x 0.7"
cable lengths: 3.25"
100W Limit

This 12V-24V switch with male and female plugs connects directly to any accessories with DC plugs and CAST Puck Lights. In conjunction with the proper accessories, this switch can be used with any Diode fixture.

# Power Supplies / Transformers

Most of Diode LED's lights are 12V DC fixtures; the ULTRA BLAZE 24V High Output Strip Light and the ARRAY 24V Linkable Light Bar are 24V DC fixtures. SPLASH Series Industrial Wall Washers are 24V fixtures that plug directly into a wall outlet. 12V lights require a transformer to convert standard household 120V AC power to 12V DC, while 24V lights require a transformer to convert 120V AC power to 24V DC. Diode LED offers three types of transformer:

- Plug-In Adapter
- Hard-Wired Non-Dimmable Driver
- Hard-Wired Dimmable Driver

## 12V Hard-Wired Dimmable Drivers

Hard-Wired Dimmable Drivers should be hard-wired to household AC power by a licensed electrician. Any of our dimmable light fixtures can be powered by our hard-wired dimmable drivers and a 120V AC magnetic low voltage dimmer switch. All Diode LED Dimmable Drivers are UL Listed.

*DO NOT USE WITH A 120V ON/OFF SWITCH*
*Pair these drivers with 120V magnetic low voltage dimmer switches. These drivers are* **not compatible** *with our REIGN dimmer switch or 12V-24V Inline On/Off Switches. For a complete list of compatible switches, see the Tools and Resources page on www.DiodeLED.com.*

*For best performance with the dimmable driver line, configurable wattage must be between **50% and 80%** of the dimmable driver's total capacuty.*

**12V - 20 Watt Indoor/Outdoor Class 2 Listed Dimmable Driver**
(item #DI-0920)  5.6" x 2.14" x 2.25"

**12V - 60 Watt Class 2 Listed Dimmable Driver**
(item #DI-0922)  6.5" x 2.6" x 2.25"

**12V - 100 Watt Dimmable Driver**
(item #DI-0925)  9" x 4.2" x 3.25"

**12V - 200 Watt Dimmable Driver**
(item #DI-0923)  9" x 4.2" x 3.25"

**12V - 300 Watt Dimmable Driver**
(item #DI-0926)  9" x 4.2" x 3.25"

Note: All our power supplies are UL Listed or UL-Recognized Components. The manufacturer rates each power supply for maximum power output at optimum thermal and voltage conditions.  As with any power supply, true actual maximum continuous current output depends upon various environmental factors such as ambient temperature, line voltage fluctuations, and orientation that may affect heat dissipation. For optimum performance, do not load the power supply to more than 80% of its labeled rating.

# Power Supplies for Custom Applications

Diode LED has a variety of 12V and 24V Power supplies that are well suited to most custom LED configurations. However, as the LED industry continues to grow, more versatile flicker-free dimming LED fixtures and power supplies are becoming available to function correctly with existing sophisticated digital lighting control systems. While we specifically promote more user-friendly products and applications at Diode LED, we also have unlisted products and solutions available for complex custom lighting applications.

## 24V Power Supplies

The ULTRA BLAZE 24V High Output Strip Light and ARRAY 24V Linkable Light Bar are Diode LED's only 24V DC fixtures. They require a transformer to convert standard household 120V AC power to 24V DC. Diode LED provides three choices of transformers: a Plug-In Adapter, a Hard-Wired Non-Dimmable Driver, and a Hard-Wired Dimmable Driver.

**24V - 96 Watt Class 2 Listed Plug-In Adapter**
(item #DI-0955)
4.7" x 2" x 1.2"
total cable length: 108"

**24V - 96 Watt Hard-Wired Class 2 Non-Dimmable Driver**
(item #DI-0954)
8" x 2.75" x 1.4"
cable lengths: 10"

**24V - 200 Watt Hard-Wired Non-Dimmable Driver**
(item #DI-0957)
8.5" x 4.52" x 2"

**24V - 320 Watt Hard-Wired Non-Dimmable Driver** (not pictured)
(item #DI-0958)
*See website for specifications.*

**24V - 96W Hard-Wired Class 2 Dimmable Driver**
(item #DI-0956)
6.5" x 2.6" x 2.25"

**24V - 200W Hard-Wired Dimmable Driver** (not pictured)
9" x 4.2" x 3.25" (item #DI-0959)
*See website for specifications.*

**24V - 300W Hard-Wired Dimmable Driver** (not pictured)
9" x 4.2" x 3.25" (item #DI-0960)
*See website for specifications.*

Note: All our power supplies are UL Listed or UL-Recognized Components. The manufacturer rates each power supply for maximum power output at optimum thermal and voltage conditions. As with any power supply, true actual maximum continuous current output depends upon various environmental factors such as ambient temperature, line voltage fluctuations, and orientation that may affect heat dissipation. For optimum performance, do not load the power supply to more than 80% of its labeled rating.

# 12V Battery Packs

**VoltaMax High Output Rechargeable 12V Battery Pack**
(item #DI-0917)  5.4" x 3.1" x 1", DC Cable Length: 45"
Capacity = 13.2 Amp hours, Charge time = <10 hours, Wattage Limit = 60W

This lightweight portable 12V battery pack will power one 20" TRUE FOCUS LED Tube Light (3.6W) for 52 hours. To charge, just plug the adapter into the "DC In" plug on the charger, then into a wall outlet. There are five lights on the battery: the left light is a low power light that flickers; the other four will light up green left to right to indicate the level of charge. When all four green lights are shining, charging is complete. Then just plug your LED light into the "DC IN/OUT" jack with the included 45 inch cable.

**PortaVolt Rechargeable 12V Battery Pack**
(item #DI-0916)  3.7" x 2.4" x 1.1", DC Cable Length: 26"
Capacity = 3.8 Amp hours, Charge time = <10 hours, Wattage Limit = 60W

This ultra-lightweight, compact, and portable 12V battery pack powers one 20" TRUE FOCUS LED Tube Light (3.6W) for 15 hours. To charge, just plug the charger to the wall outlet, a red LED on the adapter will light up. Connect the charger cable to the "DC IN/OUT" jack on the battery pack and switch the pack "ON". The green LED lights up during charging. When the green LED is off, the charging is complete. Then just plug your LED light into the "DC IN/OUT" jack with the included 26 inch cable.

# Voltage Drop & Wire Gauge Distance Chart

"Voltage drop" is a gradual lessening of power through a wire over a long distance. The farther the light fixture is from the power source, the more voltage drop will occur. Voltage drop becomes a significant factor in any LED light installation when the distance between the lights and the power source is greater than 20 feet.

To minimize voltage drop, you can:
1.  Use a thicker gauge wire (the lower the number, the heavier and thicker the wire) between the 12V-24V driver and the light.
2.  Use multiple smaller power sources throughout a large installation.
3.  Place the 12V-24V driver closer to the 12V-24V light by extending the wiring between 120V house power and the 12V or 24V driver, rather than between the 12V-24V driver and the light.

*For optimum results, consult a qualified, licensed electrician prior to installation.*
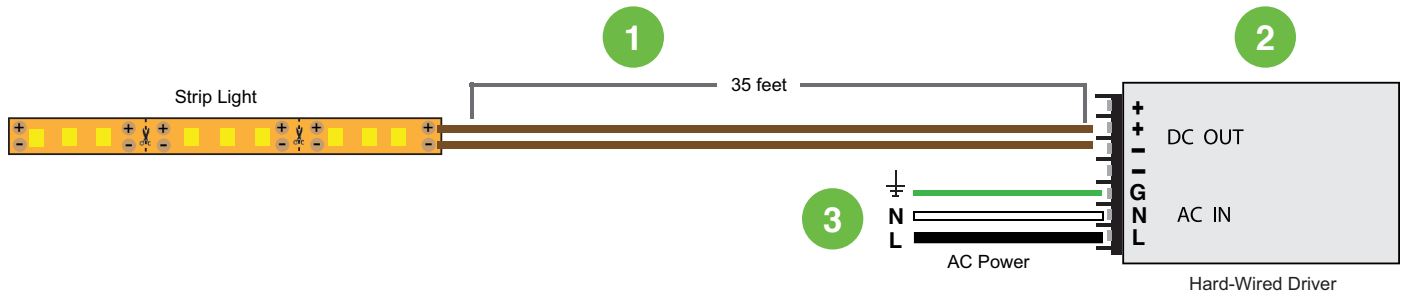


For an installation that follows option 1 above, determine what gauge wire (AWG) you will need to prevent voltage drop by consulting the chart below. The recommendations in this chart are based on accepted standards to prevent a voltage drop greater than 10%. In order to ensure the full lamp life of an LED light fixture, always supply the full 12V or 24V DC power. *Note: Be sure to observe the run limits recommended for each strip light as detailed on the strip light's product page, as exceeding these limits will also result in voltage drop.*

| Product | Voltage | Watts per foot | Feet between light and 12v-24V power source | Wire Gauge |
|---|---|---|---|---|
| EMBER Ambient Strip Light | 12V DC | 0.72W | 1' - 20' | 22 AWG |
| | 12V DC | 0.72W | 21' - 35' | 20 AWG |
| | 12V DC | 0.72W | 36' - 60' | 18 AWG |
| FLUID VIEW and SIDEWINDER Strip Lights | 12V DC | 1.44W | 1' - 10' | 22 AWG |
| | 12V DC | 1.44W | 11' - 25' | 20 AWG |
| | 12V DC | 1.44W | 26' - 50' | 18 AWG |
| | 12V DC | 1.44W | 51' - 90' | 16 AWG |
| BLAZE High Output Strip Lights | 12V DC | 2.9W | 1' - 10' | 20 AWG |
| | 12V DC | 2.9W | 11' - 30' | 18 AWG |
| | 12V DC | 2.9W | 31' - 60' | 16 AWG |
| ULTRA BLAZE 12V or 24V High Output Strip Light | 12V / 24V DC | 4.4W | 1' - 5' | 20 AWG |
| | 12V / 24V DC | 4.4W | 6' - 15' | 18 AWG |
| | 12V / 24V DC | 4.4W | 16' - 25' | 16 AWG |
| | 12V / 24V DC | 4.4W | 41' - 60' | 14 AWG |
| | 12V / 24V DC | 4.4W | 31' - 65' | 12 AWG |
| SPECTRUM RGB Strip Light | 12V DC | 2.2W | 1' - 10' | 22 AWG |
| | 12V DC | 2.2W | 11' - 25' | 18 AWG |
| | 12V DC | 2.2W | 26' - 50' | 16 AWG |
| DAZZLE High Output RGB Strip Light | 12V DC | 4.4W | 1' - 10' | 18 AWG |
| | 12V DC | 4.4W | 11' - 30' | 16 AWG |
| | 12V DC | 4.4W | 31' - 65' | 14 AWG |

# DC Plug Accessories

**Adapter Splice Cable - female**
(item #DI-0712F)
Qty of 25 (item #DI-0712F-25)
Qty of 50 (item #DI-0712F-50)
42" x 0.45"
Allows you to solder wires to a strip and connect to a Plug-In Adapter.

**DC Wire Plug - female**
(item #DI-1713F)
Qty of 25 (item #DI-1713F-25)
Qty of 50 (item #DI-1713F-50)
1.6" x 0.6" x 0.5"
Converts exposed lead wires to a female DC plug without soldering.

**Adapter Splice Cable - male**
(item #DI-0712M)
Qty of 25 (item #DI-0712M-25)
Qty of 50 (item #DI-0712M-50)
42" x 0.45"
Connects CAST LED Puck Lights and DC Splitter Plugs to a hard-wired driver. Connects an RGB Signal Amplifier to a hard-wired non-dimmable driver.

**DC Wire Plug - male**
(item #DI-1713M)
Qty of 25 (item #DI-1713M-25)
Qty of 50 (item #DI-1713M-50)
1.6" x 0.6" x 0.5"
Converts exposed lead wires to a male DC plug without soldering.

**39 Inch DC Extension Cable**
(item #DI-0708)
Qty of 25 (item #DI-0708-25)
Qty of 50 (item #DI-0708-50)
39.4" x 0.5"
Creates an extension between any fixtures or accessories that use DC plugs.

**2-Way DC Splitter**
(item #DI-0720)
Qty of 25 (item #DI-0720-25)
Qty of 50 (item #DI-0720-50)
5.7" x 0.4"

**3-Way DC Splitter**
(item #DI-0705)
Qty of 25 (item #DI-0705-25)
Qty of 50 (item #DI-0705-50)
8" x 0.6"

**5-Way DC Splitter**
(item #DI-0707)
Qty of 25 (item #DI-0707-25)
Qty of 50 (item #DI-0707-50)
8" x 0.6"

Allows several fixtures with DC plugs to be powered by the same source.

# Strip Light Accessories

**Strip Light Splice Connector**
**3.4 in.** (item #DI-0732), Qty of 25 ((item #DI-0732-25), Qty of 50 ((item #DI-0732-50)
**2 ft.** (item #DI-0742), Qty of 25 (item #DI-0742-25), Qty of 50 (item #DI-0742-50)
**4 ft.** (item #DI-0743), Qty of 25 (item #DI-0743-25), Qty of 50 (item #DI-0743-50)
**6 ft.** (item #DI-0744), Qty of 25 (item #DI-0744-25), Qty of 50 (item #DI-0744-50)
**8 ft.** (item #DI-0745), Qty of 25 (item #DI-0745-25), Qty of 50 (item #DI-0745-50)
Connects EMBER, FLUID VIEW, and BLAZE Strip Lights to a Hard-Wired Driver.

**ULTRA BLAZE 12V and 24V Strip Light Splice Connector**
**3.4 in.** (item #DI-0735), Qty of 25 (item #DI-0735-25), Qty of 50 (item #DI-0735-50)
**2 ft.** (item #DI-0736), Qty of 25 (item #DI-0736-25), Qty of 50 (item #DI-0736-50)
**4 ft.** (item #DI-0737), Qty of 25 (item #DI-0737-25), Qty of 50 (item #DI-0737-50)
**6 ft.** (item #DI-0738), Qty of 25 (item #DI-0738-25), Qty of 50 (item #DI-0738-50)
**8 ft.** (item #DI-0739), Qty of 25 (item #DI-0739-25), Qty of 50 (item #DI-0739-50)
Connects ULTRA BLAZE 24V High Output Strip Light to a Hard-Wired Driver.

**Strip-to-Strip Connector**
(item #DI-0701), Qty of 25 (item #DI-0701-25), Qty of 50 (item #DI-0701-50)
0.7" x 0.4" x 0.1"
Connects sections of EMBER, FLUID VIEW, and BLAZE Strip Light.

**ULTRA BLAZE 12V and 24V Strip-to-Strip Connector**
(item #DI-0740), Qty of 25 (item #DI-0740-25), Qty of 50 (item #DI-0740-50)
0.7" x 0.4" x 0.1"
Connects sections of ULTRA BLAZE 24V High Output Strip Light.

**Strip Light Bending Extension**
**3 in.** (item #DI-0722), Qty of 25 (item #DI-0722-25), Qty of 50 (item #DI-0722-50)
**2 ft.** (item #DI-0791), Qty of 25 (item #DI-0791-25), Qty of 50 (item #DI-0791-50)
**4 ft.** (item #DI-0792), Qty of 25 (item #DI-0792-25), Qty of 50 (item #DI-0792-50)
**6 ft.** (item #DI-0793), Qty of 25 (item #DI-0793-25), Qty of 50 (item #DI-0793-50)
**8 ft.** (item #DI-0794), Qty of 25 (item #DI-0794-25), Qty of 50 (item #DI-0794-50)
Connects non-waterproof single color EMBER, FLUID VIEW, and BLAZE Strip Light sections with a flexible joint with a bending range of 0° - 180°.

**ULTRA BLAZE 12V and 24V Strip Light Bending Extension**
**3 in.** (item #DI-0733), Qty of 25 (item #DI-0733-25), Qty of 50 (item #DI-0733-50)
**2 ft.** (item #DI-0795), Qty of 25 (item #DI-0795-25), Qty of 50 (item #DI-0795-50)
**4 ft.** (item #DI-0796), Qty of 25 (item #DI-0796-25), Qty of 50 (item #DI-0796-50)
**6 ft.** (item #DI-0797), Qty of 25 (item #DI-0797-25), Qty of 50 (item #DI-0797-50)
**8 ft.** (item #DI-0798), Qty of 25 (item #DI-0798-25), Qty of 50 (item #DI-0798-50)
Connects ULTRA BLAZE 24V High Output Strip Light sections with a flexible joint with a bending range of 0° - 180°.
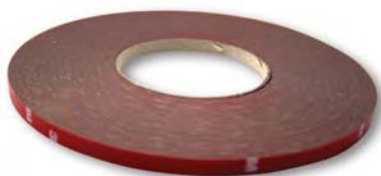
**Strip Light DC Plug Connector**
(item #DI-0700), Qty of 25 (item #DI-0700-25), Qty of 50 (item #DI-0700-50)
5.4" x 0.4"
Connects EMBER, FLUID VIEW, and BLAZE Strip Lights to a Plug-In Adapter.

**ULTRA BLAZE 12V and 24V Strip Light DC Plug Connector**
(item #DI-0721), Qty of 25 (item #DI-0721-25), Qty of 50 (item #DI-0721-50)
5.4" x 0.4"
Connects ULTRA BLAZE 24V High Output Strip Light to a Plug-In Adapter.

**3M™ Adhesive Tape**
by the foot (item #DI-0775-F)
by the 100 ft. spool (item #DI-0775-S)

# Light Bar and Wet Location Strip Light Accessories

**Waterproof Plug to DC Adapter Connector**
female (item #DI-0710F), Qty of 25 (item #DI-0710F-25), Qty of 50 (item #DI-0710F-50)
male (item #DI-0710M), Qty of 25 (item #DI-0710M-25), Qty of 50 (item #DI-0710M-50)
7.5" x 0.4"
Connects single color Wet Location Strip Light, the SUNSPOT Module Light, SUNRISE and
CASCADE Light Bars, and TRUE FOCUS Tube Lights to a Plug-In Adapter and to DC accessories. Sold individually.
Note: The female plug (DI-0710F) is not for use with the Sunspot Module Light.

**Waterproof Male to Female Extension Cables**
**6"** (item #DI-0757), Qty of 25 (item #DI-0757-25), Qty of 50 (item #DI-0757-50)
**12"** (item #DI-0758), Qty of 25 (item #DI-0758-25), Qty of 50 (item #DI-0758-50)
**24"** (item #DI-0759), Qty of 25 (item #DI-0759-25), Qty of 50 (item #DI-0759-50)
**39"** (item #DI-0709), Qty of 25 (item #DI-0709-25), Qty of 50 (item #DI-0709-50)
Connector Width: 0.3"
Creates an extension between single color Wet Location Strip Light sections, the SUNSPOT
Module Light, SUNRISE and CASCADE Light Bars, and TRUE FOCUS Tube Lights.

**Waterproof Solder Connector Pair**
(item #DI-0725), Qty of 25 (item #DI-0725-25), Qty of 50 (item #DI-0725-50)
4.7" x 0.3"
Connects single color Wet Location Strip Light, the SUNSPOT Module Light, SUNRISE and
CASCADE Light Bars, and TRUE FOCUS Tube Light to a Hard-Wired Driver. One pair is included with each spool or bar. Sold per pair.

**Waterproof Splitter Cable**
**2-way** (item #DI-0804)
**3-way** (item #DI-0805)
**5-way** (item #DI-0806)
8" x 1" x 0.3"
Connects several sections of single color Wet Location Strip Light, the SUNSPOT Module
Light, SUNRISE and CASCADE Light Bars, and TRUE FOCUS Tube Lights to one power
source.

**Wet Location Strip Light Sealing Kit**
(item #DI-0762), Qty of 25 (item #DI-0762-25), Qty of 50 (item #DI-0762-50)
caps: 0.9" x 0.2" x 0.2"
Includes 10 end caps (item #DI-0755) and one 1.5 oz. tube of sealant (item #DI-0756).

**Wet Location Strip Light Mounting Clips**
(item #DI-0754), Qty of 25 (item #DI-0754-25),
Qty of 50 (item #DI-0754-50)
0.9" x 0.2" x 0.2"
Qty of 10 clips and 20 Phillips head screws.

**TRUE FOCUS Tube Light Mounting Clips**
(item #DI-0751), Qty of 25 (item #DI-0751-25),
Qty of 50 (item #DI-0751-50)
0.9" x 0.9" x 0.4"
Qty of 10 clips and 10 Phillips head screws.

**SUNRISE Light Bar Mounting Clips**
(item #DI-0750), Qty of 25 (item #DI-0750-25),
Qty of 50 (item #DI-0750)
0.6" x 0.5" x 0.4"
Qty of 10 clips and 10 Phillips head screws.

**Screwdriver Set**
(item #DI-0779)
Perfect for installing any
mounting clips, and for use
with RGB color controllers.

Includes:
- #1 Philips head
- #0 Philips Head
- 1.2mm flat head
- 1.4mm flat head
- 1.8mm flat head
- 2.0mm flat head

**CASCADE Light Bar Mounting Clips**
(item #DI-0752), Qty of 25 (item #DI-0752-25),
Qty of 50 (item #DI-0752)
0.75" x 0.5" x 0.6"
Qty of 10 clips and 10 Phillips head screws.

# Power Supply Accessories




Accessory Variety Pack

**Two Strand Wire** per foot
18 gauge - white (DI-0770-F), per 250 ft. spool (DI-0770-S)
18 gauge - brown (DI-0771-F), per 250 ft. spool (DI-0771-S)
18 gauge - clear (DI-0772-F), per 250 ft. spool (DI-0772-S)
18 gauge - clear DI-0773-F), per 250 ft. spool (DI-0773-S)
14 gauge - white (DI-0784-F), per 250 ft. spool (DI-0784-S)
16 gauge - white (DI-0785-F), per 250 ft. spool (DI-0785-S)
20 gauge - white (DI-0786-F), per 250 ft. spool (DI-0786-S)

This two-strand wire creates extensions between fixtures, and allows for parallel runs of non-waterproof strip lights. Available by the foot or by the 250 foot spool.  For surface use or in-cabinet installations only (not rated for behind wall applications).



**22/4 Wire**
per foot (item #DI-0769-F)
0.4" x 0.1"
This four-strand, 22 gauge wire creates extensions between color-changing fixtures, and allows for parallel runs of non-waterproof SPECTRUM RGB Strip Light. Available by the foot.



**AC Power Cable**
(item #DI-0753)  56"
Connects a Hard-Wired Non-Dimmable Driver or a Hard-Wired Dimmable Driver to a wall outlet.



**4-Way Hard-Wire Terminal Block**
(item #DI-0782)
2.5" x 1.25" x 0.9"
This 4 way terminal has a paired connection circuit. Recommended for RGB color changing configurations.



**8-Way Hard-Wire Terminal Blocks**
(item #DI-0783)
4.75" x 1.3" x 0.9"
The 8 way junction has common polarity for each side. Recommended for multiple output lighting.

**Accessory Variety Pack**
(item #DI-0780)  dimensions variable
This variety pack of accessories is the perfect assortment of the most often needed accessories for most LED lighting configurations. With this fix-it kit, you'll have extras of that component on hand when you need it most.

| Accessory | Item # | Quantity |
|---|---|---|
| Strip Light Splice Connector- Fluid View | DI-0732 | 10 |
| Strip-to-Strip Connector- Fluid View | DI-0701 | 10 |
| Strip Light Bending Extension- Fluid View | DI-0722 | 10 |
| Strip Light Splice Connector- Ultra Blaze | DI-0735 | 10 |
| Strip-to-Strip Connector- Ultra Blaze | DI-0740 | 10 |
| Strip Light Bending Extension- Ultra Blaze | DI-0722 | 10 |
| DC Wire Plug - Female | DI-0713F | 5 |
| DC Wire Plug - Male | DI-0713M | 5 |
| Strip Light DC Plug Connector- Fluid View | DI-0700 | 10 |
| Strip Light DC Plug Connector- Ultra Blaze | DI-0721 | 10 |
| Waterproof Plug to DC Adapter Connector | DI-0710 | 10 |
| Waterproof Solder Connector Pair | DI-0725 | 10 |
| Wet Location Strip Light Sealing Kit | DI-0762 | 1 |
| RGB Strip Light EZ Connector with exposed lead wires | DI-0702 | 5 |
| Wet Location Strip Light Mounting Clips | DI-0754 | 20 |
| SUNRISE Light Bar Mounting Clips | DI-0750 | 10 |
| CASCADE Light Bar Mounting Clips | DI-0752 | 10 |
| TRUE FOCUS Tube Light Mounting Clips | DI-0751 | 10 |



**Meanwell Junction Box**
(item #DI-0940)  15.5" x 6.5" x 2.6"
The Meanwell Junction Box house these Non-Dimmable Hard-Wired Drivers: 200 Watt (item #DI-0909), 300 Watt (item #DI-0928), and 600 Watt (item #DI-0929).
**NEMA 1 steel enclosure**
**ETL Listed to UL STD 508A**

# LED Installation Tips
**Some things to consider when configuring your LED lighting solution.**

### 12-24V Power

All of Diode LED's products are 12V or 24V DC, while standard household electricity is 120V AC. Our power supplies convert 120V AC power to 12V-24V DC power. We have four types of power supplies: **Hard-Wired Non-Dimmable Drivers**, **Hard-Wired Dimmable Drivers**, **Plug-In Adapters,** and **Portable Battery Packs**. (See pages 72-78.)

### Dimming

All of Diode LED's lights are dimmable, except for the SUNSPOT Module Light. Dimming LED lights can be achieved in three ways:

**1)** Connect our Inline Dimmer Switch (p. 74) between the LED light and a Plug-In Adapter or Hard-Wired *Non-Dimmable* Driver.
**2)** Connect a Hard-Wired Dimmable Driver (p. 75) between the LED light and a 120V AC magnetic low voltage dimmer switch.
**3)** Connect our REIGN 12V/24V Dimmer Switch (p. 73) between the LED light and a Hard-Wired *Non-Dimmable* Driver. The Reign switch fits into a standard wall outlet.

### Wet Location

Each of our wet location products have an IP Rating, which describes the level of "ingress protection" of solid particles and liquids. Waterproof lights are for outdoor, wet location use, but **not recommended as submersible**. Our wet location products are not recommended for use in or around treated, chlorinated or salt water.

### Style

The LED industry is fast-paced and expanding rapidly. LED products are continuously being improved upon in ever-shortening manufacturing cycles. LED color and product appearance can change from order to order. Please note that variation in color temperature is commonly +/- 250k and brightness is +/- 10%. Diode LED cannot guarantee to match existing installed product for subsequent orders or replace the product exactly to match the product you are replacing in product appearance, color, or brightness. Specifications are subject to change without notice.

### Voltage Drop

"Voltage drop" is a gradual lessening of power through a wire over a long distance. The farther the light is from the power source, the more voltage drop will occur. Voltage drop becomes a significant factor in any LED light application when the distance between the lights and the power source is greater than 20 feet.

To minimize voltage drop, you can use a thicker gauge wire; use multiple smaller power sources throughout a large installation; or extend the wiring between 120V power and the 12V or 24V driver, rather than between the 12V-24V driver and the light. For more tips, see page 79 or visit the Tools & Resources section on www.DiodeLED.com.

### Working with RGB

In order to take advantage of the full color capabilities of our SPECTRUM and DAZZLE High Output RGB Strip Lights, SPLASH Series RGB Wall Washers,TRUE FOCUS RGB Tube Lights, and CASCADE Wet Location RGB Light Bars, all of our color-changing products need an RGB Color Controller. If you're creating an installation with RGB strip light longer than 16 feet, you'll need an RGB Signal Amplifier to amplify the color controlling signal and the power for every 16 foot section.

# How to Order

Although not all LED fixtures screw in like a traditional light bulb, shopping for LEDs is pretty easy. After choosing the right type of LED product for your application, you just need to choose a 12V or 24V power source for converting house-hold AC power to the 12V-24V DC of our fixtures. Lastly, find the right connectors and accessories that work with your unique configuration.

## 1 Select LED Lights

• **Style**: Select the appropriate light or combination of lights from our product families.
• **Size**: How many feet of strip light or number of fixtures do you need?
• **Color**: Do you need a warm white (2700k to 3500k) to match warm colors or wood
      finishes? Or do you need a cool white (5000k to 6500k) for modern decor application,
      or to showcase items in a display?
• **Brightness**: Do you need a low to standard level of brightness for accent or ambient
      lighting? Or do you need a high level for task or workspace lighting?
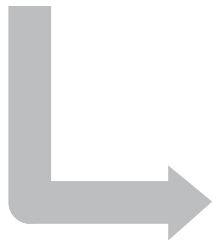
## 2 Select Power Supply

There are four different types of 12V-24V power supplies (transformers) to choose from:
   • **Hard-Wired Non-Dimmable Drivers** are a good solution for large or permanent installa-
      tions (page 72).
   • **Plug-In Adapters** are easy to install yourself and less labor-intensive (page 74).
   • **Hard-Wired Dimmable Drivers**: Most of our lights are dimmable, and a dimmable driver
      both powers them and allows them to be dimmed (page 76).
   • **Portable 12V Battery Packs** provide power when a wall outlet is not available.

How to select the proper size Power Supply:
   • If you're installing strip lighting, just multiply the wattage by the number of feet. (The
      wattage is found in the Tech Specs table.)
   • For everything else, multiply the number of fixtures by the wattage.

For maximum performance, Diode LED recommends that you only load your power supply between **50% and 80%** of the total wattage capacity rating.
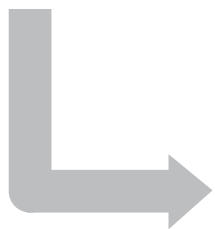
## 3 Select Accessories

Accessories that are specifically used with any particular product family are identi-
fied with that product.
   • **Connectors**: Most of our products require a connector between the light and
      power source. What connector you use depends on whether your source is an
      adapter or driver. Appropriate connectors are listed on product pages.
   • **Extension cables**: Do you need extension cables between your fixtures?
   • **Switches**: Do you want a dimmer or on/off switch for your lights?
   • **Splitters**: Are you powering several fixtures with one power supply?

# Fixture Comparison Chart

Our strips and light bars all differ in the features they offer. Some connect seamlessly; some can be cut to a custom length; some are waterproof. Here is a chart that shows how they differ in brightness and power consumption as compared to each other. A higher "Lumens per Watt" number indicates a greater efficiency as far as how much brightness a fixture puts out based on the power it consumes. (Please note that variation in color temperature is commonly +/- 250k and in brightness is +/- 10%.)

| tem # | Page | Product Name | Length | Power | Color | Lumens | Lumens per Watt | Wet Location |
|-------|------|-------------|--------|-------|-------|--------|-----------------|--------------|
| DI-0080 | 8-9 | EMBER Ambient Strip Light | 12" | 0.72W | WW | 58 | 80.5 | No |
| DI-0081 | 8-9 | EMBER Ambient Strip Light | 12" | 0.72W | CW | 58 | 80.5 | No |
| DI-0001 | 10-11 | FLUID VIEW Strip Light | 12" | 1.44W | WW | 115 | 80 | No |
| DI-0002 | 10-11 | FLUID VIEW Strip Light | 12" | 1.44W | CW | 115 | 80 | No |
| DI-0051 | 26-27 | FLUID VIEW Wet Location Strip Light | 12" | 1.44W | WW | 115 | 80 | Yes |
| DI-0052 | 26-27 | FLUID VIEW Wet Location Strip Light | 12" | 1.44W | CW | 115 | 80 | Yes |
| DI-0025 | 12-13 | SIDEWINDER Vertical Strip Light | 12" | 1.44W | WW | 90 | 62.5 | No |
| DI-0026 | 12-13 | SIDEWINDER Vertical Strip Light | 12" | 1.44W | CW | 90 | 62.5 | No |
| DI-0090 | 14-15 | BLAZE High Output Strip Light | 12" | 2.9W | WW | 240 | 83 | No |
| DI-0091 | 14-15 | BLAZE High Output Strip Light | 12" | 2.9W | CW | 240 | 83 | No |
| DI-0094 | 16-17 | ULTRA BLAZE 12V High Output Strip Light | 12" | 4.4W | CW | 360 | 82 | No |
| DI-0095 | 16-17 | ULTRA BLAZE 12V High Output Strip Light | 12" | 4.4W | WW | 360 | 82 | No |
| DI-0160 | 28-29 | BLAZE Wet Location High Output Strip Light | 12" | 2.9W | WW | 240 | 83 | Yes |
| DI-0161 | 28-29 | BLAZE Wet Location High Output Strip Light | 12" | 2.9W | CW | 240 | 83 | Yes |
| DI-0120 | 16-17 | ULTRA BLAZE 24V High Output Strip Light | 12" | 4.4W | WW | 360 | 82 | No |
| DI-0121 | 16-17 | ULTRA BLAZE 24V High Output Strip Light | 12" | 4.4W | CW | 360 | 82 | No |
| DI-1101 | 20-21 | K-Range Tunable Color Strip Light | 12" | 2.2W | WW | 162-189 | 74-86 | No |
| DI-1106 | 20-21 | K-Range High Density Tunable Color Strip Light | 12" | 5.8W | CW | 432-504 | 75-87 | No |
| DI-0211 | 54-55 | SUNRISE Light Bar | 12.25" | 1.44W | WW | 117 | 81.2 | Yes |
| DI-0212 | 54-55 | SUNRISE Light Bar | 12.25" | 1.44W | CW | 117 | 81.2 | Yes |
| DI-0220 | 56-57 | CASCADE Light Bar | 12" | 3.6W | WW | 310 | 86 | Yes |
| DI-0221 | 56-57 | CASCADE Light Bar | 12" | 3.6W | CW | 310 | 86 | Yes |
| DI-0250 | 58-59 | TRUE FOCUS LED Tube Light | 13" | 2.16W | WW | 180 | 83 | No |
| DI-0251 | 58-59 | TRUE FOCUS LED Tube Light | 13" | 2.16W | CW | 180 | 83 | No |
| DI-1262 | 60-61 | ARRAY 24V Linkable Light Bar | 11.8" | 3.3W | WW | 190 | 57 | No |
| DI-1263 | 60-61 | ARRAY 24V Linkable Light Bar | 11.8" | 3.3W | CW | 220 | 66 | No |
| DI-1291 | 60-61 | ARRAY 24V Linkable Light Bar | 11.8" | 3.3W | NW | 220 | 66 | No |
| DI-0332 | 64-65 | CAST Puck Light | 2.75" | 3.6W | WW | 240 | 66 | No |
| DI-0333 | 64-65 | CAST Puck Light | 2.75" | 3.6W | CW | 270 | 75 | No |
| DI-1440 | 64-65 | SUNSPOT Module Light | 1.55" | 3W | WW | 80 | 26 | Yes |
| DI-1441 | 64-65 | SUNSPOT Module Light | 1.55" | 3W | CW | 98 | 32 | Yes |

## Help!

Help is always on the way at www.DiodeLED.com. Visit our web site for videos, tutorials, expanded FAQs, and wiring diagrams. During business hours, you can also have your questions answered via live chat or by calling us toll free at 1.877.817.6028.

# The Benefits of LEDs

There are many reasons to choose LED lighting options, including personal preference, environmental responsibility, design elements, energy savings, and value. LEDs provide some of the following benefits:

**Lifetime**  LED lights can last from 30,000 – 75,000 hours (50,000 hours is the average) depending upon the quality, durability and use of the fixtures.  With an average use of 6.5 hours per day, this can amount to over 21 years of life!

**Energy-Efficient**  LED lights are the most efficient lights on the market.  LEDs use 1/3rd to 1/30th of the energy typically used with halogen and fluorescent lights.

**Durable**  LED lights are shockproof and will endure jarring and bumping, unlike their glass and filament counterparts.

**Cool**  In contrast to most light sources, LED lights emit very little heat in the form of infrared (IR) radiation, which can damage sensitive objects or fabrics.  Waste energy is dispersed as heat through the base of the LED, rather than into the air.

**Mercury-Free**  Unlike Compact Fluorescent Lights, LED lights contain no toxic components and are largely recyclable. And because they use less electricity than CFLs, less mercury is released into the environment from power plants.

**Cost-Effective**  Although there is often a larger up-front cost, LED lights save money over their lifetime in energy, maintenance and replacement cost, sometimes in just the first year of use.

**Healthy**  LED lights do not flicker, charge, emit ultraviolet (UV) radiation, hum or buzz.

**Safe**  LED lights are 12V or 24V DC low voltage lights and so they do not have the danger of shock like high voltage AC lighting.

**On/Off Time**  LED lights have the fastest on/off response of non-incandescent lighting, with no charge time.

**Focus**  The solid package of the LED can be designed to focus its light.  Incandescent and fluorescent sources often require an external reflector to collect and direct light.

**Cycling**  LEDs are ideal for use in applications that are subject to frequent on-off cycling, unlike fluorescent lamps that burn out more quickly when cycled frequently, or HID lamps that require a long time before restarting.

**Size**  LED lights fit into much smaller housings and fixtures that traditional lighting.

**Indirect Lighting**  Smaller applications allow many options for indirect light, which reduces eye strain and creates an evenly-lit, harmonious environment.
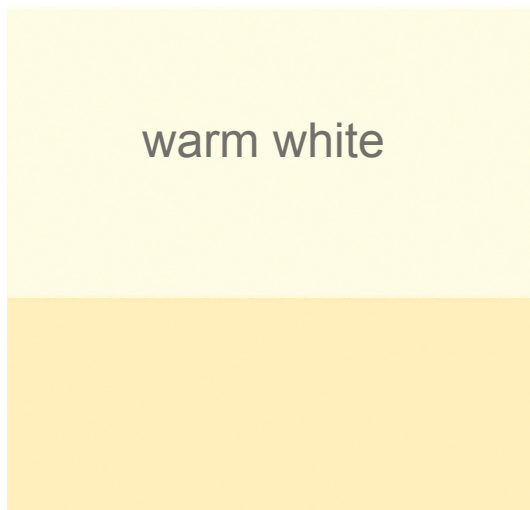
The Advantages of Going Green

# LED Color Temperature

The color temperature of a light fixture is a measurement of the amount of yellow or blue in the white light that it produces, since all light falls somewhere on the scale shown below. This measurement is expressed in kelvins; a higher kelvin number means the light is cooler/more blue, and a lower number means that it's warmer/more yellow.
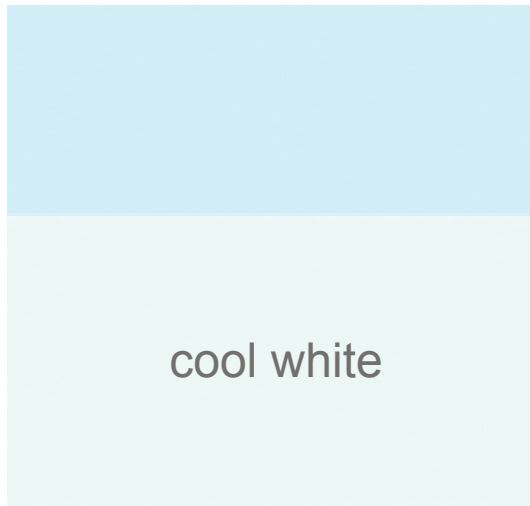
cool white

neutral white

warm white

6500

6000

5000

4000

3500

3000

2500

# GLOSSARY

**Watt:** The unit of measure for the electricity consumed by a light fixture. Abbreviated as "W".

**Lumen:** The unit of measure for the brightness of a light, representing the amount of light emitted. Abbreviated as "lm".

**Kelvin:** The unit of measure describing the color temperature of a white light, that is, where the hue of a light falls on the color spectrum. A higher number indicates a cooler light closer to blue, while a low number indicates a warmer, or more yellow, temperature.

**RGB:** "Red Green Blue". Full color LED fixtures use combinations of these three basic colors to produce up to a million colors in Spectrum fixtures.

**Color Temperature:** A term describing where the hue of a white light falls on the color spectrum. If a light is on the yellow end, it might be called "warm white," or "cool white" if it's more blue. The unit of measure for the color temperature of white light is the "kelvin".

**Nanometer: (nm)** The unit of measure for where colors other than white fall on the spectrum. Abbreviated as "nm".

**IP Rating:** "Ingress Protection". An IP rating has two numbers: the first stands for the protection against solid objects, and ranges from 0 to 6. The second number for, protection against liquid, ranges from 0 to 9. The highest IP rating is IP69, and it tells you that the protection against solid objects is a 6, and the protection against liquid is an 9.

**SMD:** "Surface mount device". A type of LED bulb placement.

**Luminous Efficacy:** Describes how many lumens of brightness is put out for each Watt of power drawn. In our Fixture Comparison Chart (p. 86), this is described as "Lumens per Watt."

**CRI:** "Color rendering index". A numerical measure of a light source's ability to reproduce the colors of various objects faithfully in comparison with a natural light source.

**RoHS:** "Restriction of Hazardous Materials," a certification that ensures that no toxic materials were used in the production of Diode's fixtures.

**ETL:** "Edison Testing Laboratory". The ETL mark shows that a product meets the minimum requirements of widely-accepted product safety standards, determined through the independent testing of a Nationally Recognized Testing Laboratory.

**UL:** "Underwriters' Laboratory". The phrase "UL Listed" denotes that a manufacturer has produced a product that complies with UL requirements with respect to reasonably foreseeable risks associated with the product.

**RU:** Signifies that a product features a "UL Recognized Component".

**CE:** "European Community". Certifies that a product has met European Union consumer safety, health, or environmental requirements.

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| DI-0757-50 | 82 | DI-0788 | 50 | DI-0918 | 72 | DI-1150-LA | 73 | | |
| DI-0758 | 82 | DI-0791 | 81 | DI-0920 | 72 | DI-1150-W | 73 | | |
| DI-0758-25 | 82 | DI-0791-25 | 81 | DI-0922 | 76 | DI-1151-A | 73 | | |
| DI-0758-50 | 82 | DI-0791-50 | 81 | DI-0923 | 76 | DI-1151-LA | 73 | | |
| DI-0759 | 82 | DI-0792 | 81 | DI-0925 | 76 | DI-1151-W | 73 | | |
| DI-0759-25 | 82 | DI-0792-25 | 81 | DI-0926 | 76 | DI-1152-A | 73 | | |

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