FLEXFIRE LEDS

LED Strip Light Catalog
We’re Here to Help!

We’re an inspired and insatiably curious group of lighting nerds from a variety of industries and walks of life who simply love giving great service. In addition to working side by side, we’ve all become great friends.

Needless to say, we sell light! Since 2010, we have specialized in manufacturing and perfecting a niche product that is used to create beautiful interior and exterior lighting experiences. We offer some of the highest quality LED strip lights on the planet. We don’t just sell a light strip though, we sell the full functional potential of lighting done right.

We understand the primordial connection between humanity and lighting. Beautiful lighting affects emotion. We will help you create your project’s desired emotion - whether it is comfort, security, inspiration, love, excitement, focus, calm, etc.

Did I mention we love customer service? We promise to educate, not sell. We take in every client’s project as if it was our own. We believe in doing things right from our product’s first solder point to ensuring a smile on your face when your project is complete and finally ‘comes to light’.

Thank you for your trust in Flexfire LEDs. We won’t let you down.

Brent Mauriello, CEO
Flexfire LEDs
INTRODUCTION

Flexfire LEDs is the world leader in quality LED lighting solutions that are brilliantly bright and predictably durable, having pushed the boundaries of the available technology to create interior and exterior lighting experiences that are beautiful and unique. We are committed to promoting the diffusion of LED technology on the global market through education and personal customer service.

Verified quality and durability
Flexfire products are consistently built to last. Our LEDs are tested to be among the brightest available and assembled reliably with quality top components. We set the highest standard for color consistency, longevity, and years of durable life.

Industry-leading educational resources and personnel
You no longer have to be confused by the complexity of LED technology. We’re dedicated to spreading the word about the impact, utility and flexibility of LED lighting. In addition to holding ourselves to high standards, we participate in several industry organizations which set and maintain standards of safety and quality.

End-to-end dedication to customers and their projects
Whether you are a contractor or homeowner, architect or electrician: let us be your consultants. We have extensive experience and rally around the success of every project. Tell us about your LED lighting project and we’ll tell you the most effective way to realize it.

INDEX

• What are LED strip lights? ............................................................................................................................... 04
• Inspire: What can LED strips do? ......................................................................................................................... 05
• Create: how to design LED strip light projects ........................................................................................................ 06
• A Little About Light .............................................................................................................................................. 07
• Single Color LED Strips ........................................................................................................................................ 08
  • ColorBright™ Vivid Color Series .......................................................................................................................... 10
  • ColorBright™ White Series .............................................................................................................................. 11
  • UltraBright™ Design Series .............................................................................................................................. 12
  • UltraBright™ Architectural Series ...................................................................................................................... 13
  • UltraBright™ Industrial Series .......................................................................................................................... 14
  • UltraBright™ High CRI Series .......................................................................................................................... 15
  • UltraBright™ Slim Series ................................................................................................................................. 16
  • Comparison Chart for Single Color LED Strips .................................................................................................... 17
• Color Changing LED Strips .................................................................................................................................. 20
  • RGB 150 .............................................................................................................................................................. 22
  • RGB 300 .............................................................................................................................................................. 23
  • RGB W .............................................................................................................................................................. 24
  • Comparison Chart for Color Changing LED Strips ............................................................................................. 25
• Dynamic Tunable White ...................................................................................................................................... 26
  • ColorBright™ Tunable ....................................................................................................................................... 28
  • UltraBright™ Tunable ....................................................................................................................................... 29
  • Comparison Chart for Dynamic Tunable White LED Strips .................................................................................. 30
• Extrusions .............................................................................................................................................................. 31
• Glossary ................................................................................................................................................................. 34
WHAT ARE LED STRIP LIGHTS?

An LED strip light is a flexible circuit board that is populated with LEDs. It has a strong adhesive backing and can easily be stuck to most surfaces. The strip can be utilized almost anywhere in order to add powerful lighting in a variety of colors and brightnesses.

- **Cut to Length**: Most strips can be cut every few inches, meaning you can easily customize the strip to fit your space.
- **Flexible**: You aren’t limited to lighting flat spaces. LED strips are flexible and can be bent vertically up to 90 degrees.
- **Low Profile**: Most strips have a thickness of 1/16” (2mm) so they may be installed in tight spaces and can easily be hidden from view.

- **Color Options**: Select from a variety of single colors and color changing options.
- **Added Protection**: IP65 or IP68 protection can be added to make the strips water and dust resistant.
- **Fully Dimmable**: Our LEDs are dimmable and compatible with a variety of home automation systems, wall and remote dimmers. You have complete control over your LEDs.

- **Peel & Stick**: The back of the strip is fitted with a strong 3M brand adhesive tape, allowing you to peel and stick lights to many different surfaces.
- **Customizable**: We are able to customize specialty strips for your project to include custom colors, lengths, CRI, width, voltage, brightness, and more. Contact us!
CREATE

How to Select Your Lighting System

LED strip lights are not “one size fits all” lighting solutions. Our strip lights are highly adaptable and customizable to fit the precise needs of your project. Follow the steps below to easily design your lighting system.

1. Choose Output Style
   Choose from monochromatic (single color), RGB Color Changing, or Tunable Dynamic White outputs. Which style best suits your project?

2. Choose Desired Brightness
   Choose the level of brightness needed for your project. Our lights are extremely bright and fully dimmable.

3. Color Options
   Choose which color(s) or shade of white you will enjoy the most for your project.

4. Dimming & Control Options
   Complete control of your space. On and off aren’t the only options. LED strips are fully dimmable and can be controlled remotely.

5. Powering your Lights
   After you have chosen your output type, length, and dimmer, you can choose your power supply. Not sure? We’re here to help you with this.

6. Added Protection
   Will these be exposed to the elements? Protection can be added to protect lights from exposure to water, dust and debris.

7. Aluminum Mounting Extrusions
   Choose an optional aluminum channel to house your strip lights. Dramatically increase design possibilities using extrusions.

8. Connecting your Lights
   While soldering is the best option for connecting strips, we have a variety of connectors available both to connect different strips to each other and to connect strips to power supplies.
A LITTLE ABOUT LIGHT

Correlated Color Temperature [CCT]

Not all white light appears the same. Correlated Color temperature (CCT) defines the color appearance of a white light. CCT is defined in degrees Kelvin. Most white lights fall in a spectrum between 1800K and 6500K. When falling below 3000K, the light looks noticeably warmer like a candle. On the other end of the spectrum, the lights have a blue-ish tint and cooler tone when passing above 6500K. Some color temperatures will better suit your design than others. Choose complementary highlighting tones and look at example photos to find which you feel will look the best.

![White Examples](image)

Lumen [Brightness]

Lumen is the measurement of brightness as perceived to the human eye. Because of incandescent lighting, we are all accustomed to using watts to measure the brightness of light. Today, we use lumen. Lumen is the most important variable when choosing your strip light. The higher the number, the brighter the light will be. Ensure that the strips you choose are bright enough for your application's intention.

CRI - Color Rendering Index

The Color Rendering Index (CRI), also known by some as color accuracy, is a term of measurement of how natural the light given off by a source looks in comparison to the sun. Have you ever purchased a red towel or dress in the store and when you try it on at home or wear it outside in the sun it looks different? This is because the CRI is different between the two light sources. High CRI LEDs will show an object’s true pure and vibrant color.

The highest CRI is 100 (like the sun). Great CRI is measured above 80 while excellent CRI measures over 90. Our UltraBright™ High CRI strips have a minimum 93 CRI and have been measured up to 96 while all of our other white strip lights have a CRI of over 80.
**SINGLE COLOR LED STRIPS**

---

**ColorBright™ Vivid Color Series**

**Lumen Output:** Up to 263 lm/ft (862/m)

**Power:** 2.9 W/ft /9.6 W/m)

**Colors:** Green, Red, Blue, Amber, Ultraviolet (UV)

ColorBright™ Vivid Color strips are the perfect way to add a flood of accenting color to nearly any space.

---

**ColorBright™ White Series**

**Lumen Output:** Up to 266 lm/ft (871/m)

**Power:** 2.9 W/ft /9.6 W/m)

**Colors:** 2400K, 2700K, 3000K, 4200K, 6200K

The ColorBright™ White Series is designed to easily add beautiful and pure white light to any space. Our most popular series for accent lighting and most medium-brightness applications.

---

**UltraBright™ Design Series**

**Lumen Output:** Up to 469 lm/ft (1,539/m)

**Power:** 4.4 W/ft /14W/m)

**Colors:** 2400K, 2700K, 3000K, 4200K, 6200K

The UltraBright™ Design Series has a balance of high brightness and low energy usage to create a truly beautiful and efficient lighting solution. Perfect for bright accents and moderate task lighting.

---

**UltraBright™ Architectural Series**

**Lumen Output:** 519 lm/ft (1703 lm/m)

**Power:** 5.1 W/ft /16.8 W/m)

**Colors:** 2400K, 2700K, 3000K, 4200K, 6200K

UltraBright™ Architectural Series is designed with the market’s leading components for incredibly brilliant luminance, excellent color rendering, and longer run lengths than other 12V series.
UltraBright™ Industrial Series

Lumen Output: 1087 lm/ft (3,565/m)
Power: 7.7 W/ft / (25 W/m)
Colors: 2400K, 2700K, 3000K, 4200K, 6200K

The UltraBright™ Industrial Series is our brightest strip, emitting over 1,000 lumens per foot with a remarkable color rendering index of over 80. Used commonly in industrial and architectural design applications among others.

UltraBright™ High CRI Series

Lumen Output: 456 lm/ft (1497 lm/m)
Power: 5.8 W/ft / (19 W/m)
Colors: 2400K, 2700K, 3000K, 4200K, 6200K

UltraBright™ High CRI LEDs accurately render the color of the objects they are lighting. These strips have a minimum 93 CRI and have been measured up to 96.

UltraBright™ Slim Series

Lumen Output: Up to 469 lm/ft (1,539/m) 400 lm/ft
Power: 4.4 W/ft / (14 W/m)
Colors: 2400K, 2700K, 3000K, 4200K, 6200K

Some spaces are too narrow to accommodate standard width strip lights. The Slim Series is ultra-thin (3.5mm wide) allowing you to add blazingly bright light to even more spaces.
ColorBright™ Vivid Color Color Series

ColorBright™ Vivid Color LED strip lights are the perfect way to add a flood of accenting color to any space. Colors available in this series are red, green, blue, amber, and ultraviolet (UV). This series is perfect for any application that requires a densely packed beam of colored light!

Features

- Available in Green, Red, Blue, Amber, Ultraviolet (UV)
- Fully Dimmable
- 120° Beam Angle
- Efficiency up to 91 lm/W
- Highest quality 3528 SMD LEDs
- 3M VHB 4930 adhesive backing for a long lasting bond
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Maximum Length in Series 32ft 10in (10m)
- 12V DC Input (24V special order)
- Can be cut every 1" (25.4mm)
- Thick double layer 2oz copper PCB for excellent thermal management
- Short LED pitch of 5/16" (8mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color (CCT)</th>
<th>Wavelength (nm)</th>
<th>Watts / foot (Meter)</th>
<th>Lumin. Flux (Meter)</th>
<th>Luminous efficacy (Lumens / Watt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-G</td>
<td>Green</td>
<td>515 - 525 nm</td>
<td>2.9 W/ft (9.6 W/m)</td>
<td>134 lm/ft (440 lm/m)</td>
<td>46</td>
</tr>
<tr>
<td>CB-R</td>
<td>Red</td>
<td>615 - 630 nm</td>
<td>2.9 W/ft (9.6 W/m)</td>
<td>91 lm/ft (300 lm/m)</td>
<td>31</td>
</tr>
<tr>
<td>CB-B</td>
<td>Blue</td>
<td>465 - 475 nm</td>
<td>2.9 W/ft (9.6 W/m)</td>
<td>55 lm/ft (180 lm/m)</td>
<td>19</td>
</tr>
<tr>
<td>CB-AM</td>
<td>Amber</td>
<td>575 nm (1600 - 1800K)</td>
<td>2.9 W/ft (9.6 W/m)</td>
<td>263 lm/ft (862 lm/m)</td>
<td>91</td>
</tr>
<tr>
<td>CB-UV</td>
<td>Purple</td>
<td>399 nm</td>
<td>2.9 W/ft (9.6 W/m)</td>
<td>263 lm/ft (862 lm/m)</td>
<td>91</td>
</tr>
</tbody>
</table>
ColorBright™ White Series

The ColorBright™ White Series is designed so you can easily add stunningly bright and crisp accent lighting in coves, under cabinets, shelving, or a thousand other places you may imagine. It is the perfect accent light, balancing high intensity and low energy consumption.

Features

- High CRI of 80+
- Fully Dimmable
- 120° Beam Angle
- Efficiency up to 97 lm/W
- Highest quality 3528 SMD LEDs
- 3M VHB 4930 adhesive backing for a long lasting bond
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Maximum Length in Series 32ft 10in (10m)
- 12V DC Input (24V special order)
- Can be cut every 1” (25.4mm)
- Thick double layer 2oz copper PCB for excellent thermal management
- Short LED pitch of 5/16” (8mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color* (CCT)</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Luminous efficacy (Lumens / Watt)</th>
<th>CRI</th>
<th>Gamut Score Re (Color Sat.)</th>
<th>Relative Fidelity Score (RF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-24K</td>
<td>2400K</td>
<td>2.9 W/ft 9.6 W/m</td>
<td>234 lm/ft (769 lm/m)</td>
<td>81 lm/W</td>
<td>83</td>
<td>92</td>
<td>82.4</td>
</tr>
<tr>
<td>CB-27K</td>
<td>2700K</td>
<td>2.9 W/ft 9.6 W/m</td>
<td>264 lm/ft (864 lm/m)</td>
<td>91 lm/W</td>
<td>83</td>
<td>92.1</td>
<td>87.4</td>
</tr>
<tr>
<td>CB-30K</td>
<td>3000K</td>
<td>2.9 W/ft 9.6 W/m</td>
<td>263 lm/ft (870 lm/m)</td>
<td>91 lm/W</td>
<td>85</td>
<td>96.4</td>
<td>82.8</td>
</tr>
<tr>
<td>CB-42K</td>
<td>4200K</td>
<td>2.9 W/ft 9.6 W/m</td>
<td>266 lm/ft (871 lm/m)</td>
<td>92 lm/W</td>
<td>83</td>
<td>92.1</td>
<td>80.6</td>
</tr>
<tr>
<td>CB-62K</td>
<td>6200K</td>
<td>2.9 W/ft 9.6 W/m</td>
<td>263 lm/ft (862 lm/m)</td>
<td>91 lm/W</td>
<td>83</td>
<td>97.4</td>
<td>80.3</td>
</tr>
</tbody>
</table>

*Note: CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.
UltraBright™ Design Series

The UltraBright™ Design series has a balance of high brightness and low energy usage to create a truly beautiful and efficient lighting solution. With roughly double the brightness of the ColorBright™ White Series, this strip is a great solution for bright accents and moderate task lighting among a hundred other creative uses.

Features

• High CRI of 80+
• Fully Dimmable
• 120° Beam Angle
• Efficiency up to 107 lm/W
• Highest quality 3014 SMD LEDs
• 3M VHB 4930 adhesive backing for a long lasting bond
• Single BIN LED selection to ensure color consistency (3-Step MacAdam)
• Maximum Length in Series 16ft 5in (5m)
• 12V DC Input
• Can be cut every 1” (25.4mm)
• Thick double layer 2oz copper PCB for excellent thermal management
• Short LED pitch of 5/16“ (8mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color* (CCT)</th>
<th>Watts / foot (14.4 W/m)</th>
<th>Lumen / foot (1,115 lm/m)</th>
<th>Luminous efficacy (Lumens / Watt)</th>
<th>CRI</th>
<th>Gamut Score Rg (Color Sat.)</th>
<th>Relative Fidelity Score (RF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB-DS-24K</td>
<td>2400K</td>
<td>4.4 W/ft (14.4 W/m)</td>
<td>340 lm/ft (1,115 lm/m)</td>
<td>77 lm/W</td>
<td>82</td>
<td>92.6</td>
<td>82.3</td>
</tr>
<tr>
<td>UB-DS-27K</td>
<td>2700K</td>
<td>4.4 W/ft (14.4 W/m)</td>
<td>344 lm/ft (1,128 lm/m)</td>
<td>78 lm/W</td>
<td>82</td>
<td>92.3</td>
<td>82.3</td>
</tr>
<tr>
<td>UB-DS-30K</td>
<td>3000K</td>
<td>4.4 W/ft (14.4 W/m)</td>
<td>375 lm/ft (1,230 lm/m)</td>
<td>85 lm/W</td>
<td>85</td>
<td>95.5</td>
<td>82.5</td>
</tr>
<tr>
<td>UB-DS-42K</td>
<td>4200K</td>
<td>4.4 W/ft (14.4 W/m)</td>
<td>413 lm/ft (1,355 lm/m)</td>
<td>94 lm/W</td>
<td>83</td>
<td>93.4</td>
<td>82.3</td>
</tr>
<tr>
<td>UB-DS-62K</td>
<td>6200K</td>
<td>4.4 W/ft (14.4 W/m)</td>
<td>469 lm/ft (1,538 lm/m)</td>
<td>107 lm/W</td>
<td>83</td>
<td>94.7</td>
<td>81</td>
</tr>
</tbody>
</table>
UltraBright™ Architectural Series

UltraBright™ Architectural Series is designed with the market’s leading components for incredibly brilliant luminance and great color rendering. Due to the high output, this product is often paired with a variety of dimming options to allow its use in most applications, from high brightness to comfortable accents.

Features

- High CRI of 80+
- Fully Dimmable
- 120° Beam Angle
- Efficiency up to 100 lm/W
- Highest quality 3014 SMD LEDs
- 3M VHB 4930 adhesive backing for a long lasting bond
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Maximum Length in Series 32ft 10in (10m)
- 24V DC Input
- Can be cut every 2" (51mm)
- Thick double layer 2oz copper PCB for excellent thermal management
- Short LED pitch of 1/4" (7mm)

Specifications

<table>
<thead>
<tr>
<th>Product. SKU</th>
<th>Color* (CCT)</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Luminous efficacy (Lumens / Watt)</th>
<th>CRI</th>
<th>Gamut Score Rg (Color Sat.)</th>
<th>Relative Fidelity Score (RF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB-AS-24K</td>
<td>2400K</td>
<td>5.1 W/ft 16.8 W/m</td>
<td>374 lm/ft (1,227 lm/m)</td>
<td>72 lm/W</td>
<td>81</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>UB-AS-27K</td>
<td>2700K</td>
<td>5.1 W/ft 16.8 W/m</td>
<td>457 lm/ft (1,500 lm/m)</td>
<td>88 lm/W</td>
<td>81</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>UB-AS-30K</td>
<td>3000K</td>
<td>5.1 W/ft 16.8 W/m</td>
<td>441 lm/ft (1,447 lm/m)</td>
<td>85 lm/W</td>
<td>81</td>
<td>95.3</td>
<td>82.4</td>
</tr>
<tr>
<td>UB-AS-42K</td>
<td>4200K</td>
<td>5.1 W/ft 16.8 W/m</td>
<td>471 lm/ft (1,545 lm/m)</td>
<td>91 lm/W</td>
<td>82</td>
<td>93.4</td>
<td>82.3</td>
</tr>
<tr>
<td>UB-AS-62K</td>
<td>6200K</td>
<td>5.1 W/ft 16.8 W/m</td>
<td>519 lm/ft (1,703 lm/m)</td>
<td>100 lm/W</td>
<td>83</td>
<td>95.6</td>
<td>80.8</td>
</tr>
</tbody>
</table>

*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.
UltraBright™ Industrial Series

The UltraBright™ Industrial Series is our brightest strip, emitting 1,000 lumens per foot with a color rendering index of over 80. It is one of the brightest LED strips on the planet. Its 10mm width ensures compatibility and functionality in both small and large industrial products. Used commonly in industrial and architectural design among other niche and common high-brightness applications. You simply have to see it to believe it!

Features

• High CRI of 80+ (CRI 90+ available through special order)
• Fully Dimmable
• 120° Beam Angle
• Efficiency up to 153 lm/W
• Highest quality 2835 SMD LEDs
• 3M VHB 4930 adhesive backing for a long lasting bond
• Single BIN LED selection to ensure color consistency (3-Step MacAdam)
• Maximum Length in Series 9’ 10” (3m)
• 24V or 12V DC Input Options
• Can be cut every 1 5/16” (33mm) | 2 5/8” for 24V (67mm)
• Thick 2oz - 3oz copper PCB for excellent thermal management
• Short LED pitch of 5/16” (8mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color* (CCT)</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Luminous efficacy (Lumens / Watt)</th>
<th>CRI</th>
<th>Gamut Score Rg (Color Sat.)</th>
<th>Relative Fidelity Score (RF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB-IS-24K</td>
<td>2400K</td>
<td>7.7 W/ft 25 W/m</td>
<td>866 lm/ft (2,841 lm/m)</td>
<td>131 lm/W</td>
<td>82</td>
<td>92</td>
<td>82.4</td>
</tr>
<tr>
<td>UB-IS-27K</td>
<td>2700K</td>
<td>7.7 W/ft 25 W/m</td>
<td>908 lm/ft (2,978 lm/m)</td>
<td>138 lm/W</td>
<td>82</td>
<td>92.1</td>
<td>81.6</td>
</tr>
<tr>
<td>UB-IS-30K</td>
<td>3000K</td>
<td>7.7 W/ft 25 W/m</td>
<td>936 lm/ft (3,070 lm/m)</td>
<td>142 lm/W</td>
<td>85</td>
<td>95.7</td>
<td>82.7</td>
</tr>
<tr>
<td>UB-IS-42K</td>
<td>4200K</td>
<td>7.7 W/ft 25 W/m</td>
<td>1,001 lm/ft (3,283 lm/m)</td>
<td>152 lm/W</td>
<td>83</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>UB-IS-62K</td>
<td>6200K</td>
<td>7.7 W/ft 25 W/m</td>
<td>1,009 lm/ft (3,310 lm/m)</td>
<td>153 lm/W</td>
<td>83</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
</tbody>
</table>

*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.
UltraBright™ High CRI Series

UltraBright™ High CRI LED strip lights accurately render the color of the objects they are lighting. The Color Rendering Index (CRI), also known by some as color accuracy, is a term of measurement of how natural the light given off by a source looks in comparison to the sun. Have you ever purchased a red tie or dress in the store and when you try it on at home or wear it outside in the sun it looks different? This is because the CRI of the store’s lighting may be much lower than the sun. The highest CRI is 100 (like the sun). Our UltraBright™ High CRI LED strip lights have a minimum 93 CRI and have been measured up to 96 which will show an object’s true pure and vibrant color.

Features

- High CRI of 90+
- Fully Dimmable
- 120° Beam Angle
- Efficiency up to 88 lm/W
- Highest quality 3020 SMD LEDs
- 3M VH B 4930 adhesive backing for a long lasting bond
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Maximum Length in Series 16ft 5in (5m)
- 12V DC Input (24V special order)
- Can be cut every 1" (25.4mm)
- Thick double layer 2oz copper PCB for excellent thermal management
- Short LED pitch of 5/16" (8mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color* (CCT)</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Luminous efficacy (Lumens / Watt)</th>
<th>CRI</th>
<th>Gamut Score Rg (Color Sat.)</th>
<th>Relative Fidelity Score (RF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB-CRI-30K</td>
<td>3000K</td>
<td>5.8 W/ft 19 W/m</td>
<td>402 lm/ft (1,319 lm/m)</td>
<td>69 lm/W</td>
<td>93</td>
<td>98.5</td>
<td>90.2</td>
</tr>
<tr>
<td>UB-CRI-42K</td>
<td>4200K</td>
<td>5.8 W/ft 19 W/m</td>
<td>450 lm/ft (1,476 lm/m)</td>
<td>87 lm/W</td>
<td>93</td>
<td>97.2</td>
<td>88.8</td>
</tr>
<tr>
<td>UB-CRI-62K</td>
<td>6200K</td>
<td>5.8 W/ft 19 W/m</td>
<td>456 lm/ft (1,497 lm/m)</td>
<td>88 lm/W</td>
<td>94</td>
<td>97.4</td>
<td>88.5</td>
</tr>
</tbody>
</table>

*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.
UltraBright™ Slim Series

Some spaces are too narrow to accommodate standard width strip lights. With a width of only 3.5mm, the Slim Series is ultra-thin allowing you to add light to even more spaces. It is one of the thinnest LED strip lights on the market. These strips can easily be hidden from view and are great for providing elegant, discreet lighting.

Features

- High CRI of 80+
- Fully Dimmable
- 120º Beam Angle
- Efficiency up to 83 lm/W
- High quality 3014 SMD LEDs
- 3M VHB 4930 adhesive backing for a long lasting bond
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Maximum Length in Series 9ft 10in (3m)
- 12V DC Input (24V special order)
- Can be cut every 1" (25.4mm)
- Thick double layer 2oz copper PCB for excellent thermal management
- Short LED pitch of 3/8" (9mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color (CCT)</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Luminous efficacy (Lumens / Watt)</th>
<th>CRI</th>
<th>Gamut Score Rg (Color Sat.)</th>
<th>Relative Fidelity Score (RF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB-SS-24K</td>
<td>2400K</td>
<td>4.4 W/ft 14.4 W/m</td>
<td>340 lm/ft (1,115 lm/m)</td>
<td>77 lm/W</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>UB-SS-27K</td>
<td>2700K</td>
<td>4.4 W/ft 14.4 W/m</td>
<td>344 lm/ft (1,128 lm/m)</td>
<td>78 lm/W</td>
<td>Coming Soon</td>
<td>92.6</td>
<td>82.3</td>
</tr>
<tr>
<td>UB-SS-30K</td>
<td>3000K</td>
<td>4.4 W/ft 14.4 W/m</td>
<td>335 lm/ft (1,009 lm/m)</td>
<td>76 lm/W</td>
<td>82</td>
<td>94.8</td>
<td>81.9</td>
</tr>
<tr>
<td>UB-SS-42K</td>
<td>4200K</td>
<td>4.4 W/ft 14.4 W/m</td>
<td>350 lm/ft (1,148 lm/m)</td>
<td>80 lm/W</td>
<td>82</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>UB-SS-62K</td>
<td>6200K</td>
<td>4.4 W/ft 14.4 W/m</td>
<td>366 lm/ft (1,200 lm/m)</td>
<td>83 lm/W</td>
<td>81</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
</tbody>
</table>
## COMPARISON CHART

### Single Color Output

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ColorBright™ White Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>266</td>
<td>2.9</td>
<td>0.24</td>
<td>92</td>
<td>IP20</td>
<td>12V (24V)*</td>
<td>80+</td>
<td>32 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ColorBright™ White Outdoor Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>266</td>
<td>2.9</td>
<td>0.24</td>
<td>92</td>
<td>IP65</td>
<td>12V (24V)*</td>
<td>80+</td>
<td>32 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ColorBright™ Vivid Color</td>
<td>Red, Blue, Green, UV, Amber</td>
<td>266</td>
<td>2.9</td>
<td>0.24</td>
<td>91</td>
<td>IP20</td>
<td>12V (24V)*</td>
<td>N/A</td>
<td>32 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ColorBright™ Vivid Color Outdoor Series</td>
<td>Red, Blue, Green, UV, Amber</td>
<td>266</td>
<td>2.9</td>
<td>0.24</td>
<td>91</td>
<td>IP65</td>
<td>12V (24V)*</td>
<td>N/A</td>
<td>32 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltraBright™ High CRI Series</td>
<td>3000K, 4200K, 6200K</td>
<td>456</td>
<td>5.8</td>
<td>0.48</td>
<td>79</td>
<td>IP20</td>
<td>12V (24V)*</td>
<td>90+</td>
<td>16 ft 5 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltraBright™ Design Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>469</td>
<td>4.4</td>
<td>0.37</td>
<td>107</td>
<td>IP20</td>
<td>12V (24V)*</td>
<td>80+</td>
<td>16 ft 5 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltraBright™ Design Outdoor Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>469</td>
<td>4.4</td>
<td>0.37</td>
<td>107</td>
<td>IP65</td>
<td>12V (24V)*</td>
<td>80+</td>
<td>16 ft 5 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltraBright™ Architectural Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>519</td>
<td>5.1</td>
<td>0.21</td>
<td>102</td>
<td>IP20</td>
<td>24V</td>
<td>80+</td>
<td>32 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltraBright™ Architectural Outdoor Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>519</td>
<td>5.1</td>
<td>0.21</td>
<td>102</td>
<td>IP65</td>
<td>24V</td>
<td>80+</td>
<td>32 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltraBright™ Industrial Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>1009</td>
<td>7.7</td>
<td>0.64 or 0.32</td>
<td>150</td>
<td>IP20</td>
<td>12V or 24V</td>
<td>80+</td>
<td>9 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltraBright™ Slim Series</td>
<td>2400K, 2700K, 3000K, 4200K, 6200K</td>
<td>366</td>
<td>4.4</td>
<td>0.37</td>
<td>83</td>
<td>IP20</td>
<td>12V (24V)*</td>
<td>80+</td>
<td>9 ft 10 in</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Special Order*
COLOR CHANGING LED STRIPS

ColorBright™ RGB 150 Series

Lumen Output: Up to 45 lm/ft
Power: 2.2 W/ft / (7.2 W/m)
Colors: Almost any deep and intense color of your choice.

This strip uses an advanced color mixing technology of 150 RGB color changing LEDs per reel that allows the color output to be changed internally with each LED, projecting a purely bright and beautiful glowing color of your choice.

ColorBright™ RGB 300 Series

Lumen Output: Up to 90 lm/ft
Power: 4.4 W/ft (14.4 W/m)
Colors: Almost any deep and intense color of your choice.

The higher output RGB 300 series utilizes the same technology as the RGB 150 series, but it has double the LEDs and double brightness. The color output can be changed internally with each LED, projecting a purely bright and beautiful glowing color of your choice.

ColorBright™ RGB+W Series

Lumen Output: Variable RGB output and White output up to 213 lm/ft (698/m)
Power: 4.4 W/ft (14.4 W/m)
Colors: Full color spectrum (RGB + White [2400K, 2700K, 3000K, 4200K, or 6200K]

The ColorBright™ Color Changing + White LED strip light has alternating RGB color changing LEDs and single color high brightness white LEDs, combining color changing and white strips into one.
COLOR CHANGING LED STRIPS
ColorBright™ RGB 150 Series

Paint with light. The ColorBright™ RGB 150 LED strip uses an advanced color mixing technology of 150 RGB LEDs per 16’5” reel. The use of a DMX or RGB controller allows the color output of the LEDs to be changed internally, projecting a purely bright and beautiful glowing color of your choice. Create beautiful works of art and light shows at the touch of a button. The RGB 150 series uses half the energy of the 300 series and is also able to be installed in longer continuous runs.

Features

• Color Changing
• Fully dimmable and color controllable
• 120° Beam Angle
• Highest quality 5050 SMD LEDs
• 3M VHB 4930 adhesive backing for a long lasting bond
• Single BIN LED selection to ensure color consistency (3-Step MacAdam)
• Maximum Length in Series 32’ 10” (10m) for 12V | 48’ 10” (15m) for 24V
• 24V and 12V DC Input Options Available
• Can be cut every 4” (100mm) | 6 1/2” for 24V (165mm)
• Thick double layer 2oz copper PCB for excellent thermal management
• Short LED pitch of 1 1/4” (33mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>LED Chips per foot (Meter)</th>
<th>Voltage Input</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Segment Lengths</th>
<th>Max. Run Length in Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-RGB-12V</td>
<td>9 LEDs/Foot (30/Meter)</td>
<td>12V DC</td>
<td>2.2 W/ft (7.2 W/m)</td>
<td>Variable</td>
<td>4” (100 mm)</td>
<td>32’ 10” (10 meters)</td>
</tr>
<tr>
<td>CB-RGB-24V</td>
<td>9 LEDs/Foot (30/Meter)</td>
<td>24V DC</td>
<td>2.2 W/ft (7.2 W/m)</td>
<td>Variable</td>
<td>6 1/2” (165 mm)</td>
<td>48’ 10” (15 meters)</td>
</tr>
</tbody>
</table>

ColorBright™ RGB 150 Series

Paint with light. The ColorBright™ RGB 150 LED strip uses an advanced color mixing technology of 150 RGB LEDs per 16’5” reel. The use of a DMX or RGB controller allows the color output of the LEDs to be changed internally, projecting a purely bright and beautiful glowing color of your choice. Create beautiful works of art and light shows at the touch of a button. The RGB 150 series uses half the energy of the 300 series and is also able to be installed in longer continuous runs.

Features

• Color Changing
• Fully dimmable and color controllable
• 120° Beam Angle
• Highest quality 5050 SMD LEDs
• 3M VHB 4930 adhesive backing for a long lasting bond
• Single BIN LED selection to ensure color consistency (3-Step MacAdam)
• Maximum Length in Series 32’ 10” (10m) for 12V | 48’ 10” (15m) for 24V
• 24V and 12V DC Input Options Available
• Can be cut every 4” (100mm) | 6 1/2” for 24V (165mm)
• Thick double layer 2oz copper PCB for excellent thermal management
• Short LED pitch of 1 1/4” (33mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>LED Chips per foot (Meter)</th>
<th>Voltage Input</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Segment Lengths</th>
<th>Max. Run Length in Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-RGB-12V</td>
<td>9 LEDs/Foot (30/Meter)</td>
<td>12V DC</td>
<td>2.2 W/ft (7.2 W/m)</td>
<td>Variable</td>
<td>4” (100 mm)</td>
<td>32’ 10” (10 meters)</td>
</tr>
<tr>
<td>CB-RGB-24V</td>
<td>9 LEDs/Foot (30/Meter)</td>
<td>24V DC</td>
<td>2.2 W/ft (7.2 W/m)</td>
<td>Variable</td>
<td>6 1/2” (165 mm)</td>
<td>48’ 10” (15 meters)</td>
</tr>
</tbody>
</table>
ColorBright™ RGB 300 Series

An explosion of colors. The ColorBright™ RGB 300 LED strip uses an advanced color mixing technology of 300 RGB LEDs per 16’5” reel. The use of a DMX or RGB controller allows the color output of the LEDs to be changed internally, projecting a purely bright and beautiful glowing color of your choice. Create beautiful works of art and light shows at the touch of a button. The RGB 300 series is twice as densely populated with LEDs and thus twice as bright compared to the RGB 150 series.

Features

- Color Changing
- Fully dimmable and color controllable
- 120° Beam Angle
- Highest quality S050 SMD LEDs
- 3M VHB 4930 adhesive backing for a long lasting bond
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Maximum Length in Series: 16’5” (5m) for 12V | 32’10” (10m) for 24V
- 24V and 12V DC Input Options Available
- Can be cut every 2” (50 mm) | 4” for 24V (100mm)
- Thick double layer 2oz copper PCB for excellent thermal management
- Short LED pitch of 3/4” (17mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>LED Chips per foot (Meter)</th>
<th>Voltage Input</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Segment Lengths</th>
<th>Max. Run Length in Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-RGB2-12V</td>
<td>18 LEDs/Foot (60/Meter)</td>
<td>12V DC</td>
<td>4.4 W/ft (14.4 W/m)</td>
<td>Variable</td>
<td>2’ (50 mm)</td>
<td>16’ 5” (5 meters)</td>
</tr>
<tr>
<td>CB-RGB2-24V</td>
<td>18 LEDs/Foot (60/Meter)</td>
<td>24V DC</td>
<td>4.4 W/ft (14.4 W/m)</td>
<td>Variable</td>
<td>4” (100 mm)</td>
<td>32’ 10” (10 meters)</td>
</tr>
</tbody>
</table>
ColorBright™ RGBW Series

The ColorBright™ Color Changing + White LED strip light is an ingenious product that has combined two powerful strips into one. This product has alternating RGB color changing LEDs and single color high brightness white LEDs. With the touch of a remote, these lights can become any color you can imagine - including a crisp and beautiful white. No longer will you have to sacrifice one product for the other, we have combined them both into one strip.

Features

- White LEDs have a high CRI of 80+
- Fully dimmable and color controllable
- 120° Beam Angle
- Highest quality 5050 SMD LEDs
- 3M VHB 4930 adhesive backing for a long lasting bond
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Maximum Length in Series 16' 5" (5m) for 12V | 32' 10" (10m) for 24V
- 24V and 12V DC Input Options Available
- Can be cut every 4" for 12V (100mm) | 6 1/2" for 24V (167mm)
- Thick double layer 2oz copper PCB for excellent thermal management
- Short LED pitch of 3/4" (17mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color (CCT)</th>
<th>Watts / foot (Meter)</th>
<th>Lumen / foot (Meter)</th>
<th>Lumen Output (RGB only)</th>
<th>CRI (White)</th>
<th>Gamut Score Rg (Color Sat.) (White)</th>
<th>Relative Fidelity Score (RF) (White)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-RGB24K</td>
<td>2400K</td>
<td>Coming Soon</td>
<td>4.4 W/ft 14.4 W/m</td>
<td>Coming Soon</td>
<td>Variable</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>CB-RGB27K</td>
<td>2700K</td>
<td>Coming Soon</td>
<td>4.4 W/ft 14.4 W/m</td>
<td>Coming Soon</td>
<td>Variable</td>
<td>Coming Soon</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>CB-RGB30K</td>
<td>3000K</td>
<td>198 lm/ft (423 lm/m)</td>
<td>Variable</td>
<td>83</td>
<td>91.4</td>
<td>82.9</td>
<td></td>
</tr>
<tr>
<td>CB-RGB42K</td>
<td>4200K</td>
<td>207 lm/ft (679 lm/m)</td>
<td>Variable</td>
<td>82</td>
<td>96.9</td>
<td>80.6</td>
<td></td>
</tr>
<tr>
<td>CB-RGB62K</td>
<td>6200K</td>
<td>213 lm/ft (698 lm/m)</td>
<td>Variable</td>
<td>83</td>
<td>94.3</td>
<td>79.5</td>
<td></td>
</tr>
</tbody>
</table>

*Because of variability of RGB, we cannot calculate CRI, Gamut, RF, or efficacy*
## RGB Color Changing Output

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ColorBright™ RGB150 Color Changing Series</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2.2</td>
<td>0.24</td>
<td>464</td>
<td>IP20</td>
<td>12V/24V</td>
<td>N/A</td>
<td>32ft 10in</td>
<td>49ft 3in</td>
</tr>
<tr>
<td>ColorBright™ RGB150 Color Changing Series</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2.2</td>
<td>0.24</td>
<td>464</td>
<td>IP20</td>
<td>12V/24V</td>
<td>N/A</td>
<td>32ft 10in</td>
<td>49ft 3in</td>
</tr>
<tr>
<td>ColorBright™ RGB300 Color Changing Series</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>4.4</td>
<td>0.37</td>
<td>86</td>
<td>IP20</td>
<td>12V/24V</td>
<td>N/A</td>
<td>16ft 5in</td>
<td>32ft 10in</td>
</tr>
<tr>
<td>ColorBright™ RGB300 Color Changing Series</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>4.4</td>
<td>0.37</td>
<td>86</td>
<td>IP20</td>
<td>12V/24V</td>
<td>N/A</td>
<td>16ft 5in</td>
<td>32ft 10in</td>
</tr>
<tr>
<td>ColorBright™ Color Changing [+White] Series</td>
<td>2400K, 2700K, 3000K, 4200K, 5000K, 6200K</td>
<td>N/A</td>
<td>N/A</td>
<td>213</td>
<td>4.4</td>
<td>37</td>
<td>IP20</td>
<td>12V/24V</td>
<td>80+</td>
<td>16ft 5in</td>
<td>32ft 10in</td>
</tr>
<tr>
<td>ColorBright™ Color Changing [+White] Series</td>
<td>2400K, 2700K, 3000K, 4200K, 5000K, 6200K</td>
<td>N/A</td>
<td>N/A</td>
<td>213</td>
<td>4.4</td>
<td>37</td>
<td>IP20</td>
<td>12V/24V</td>
<td>80+</td>
<td>16ft 5in</td>
<td>32ft 10in</td>
</tr>
</tbody>
</table>
TUNABLE DYNAMIC WHITE

Tunable White Series LED strip light can be adjusted to produce very specific shades of white. It is the ideal solution when an existing source of light must be matched perfectly or when the hue of light must change over time.

Control Output Color Anywhere in Between

Construction of a ColorBright™ Tunable White Strip

ColorBright™ Dynamic Tunable White

Lumen Output: 3000K - 6200K  
Power: 266 lm/ft

The Dynamic Tunable White LED strip light uses color blending technology so you can select the perfect shade of white anywhere within the CCT range. No longer settle for one shade of white. This strip has it all.

UltraBright™ Architectural Tunable

Power: Up to 480 lm/ft (1575 lm/m)

This strip light can be adjusted to produce very specific shades of white. It is not only fully dimmable, but allows you to control the color temperature (shade of white) with the touch of a remote!
ColorBright™ Tunable Dynamic White Series

ColorBright™ Dynamic Tunable White LED strip light the perfect lighting solution for projects that require a very specific shade of white light or for projects where the color of white will need the ability to change from time to time. This LED strip light was produced with alternating colored LEDs on the circuit board (half 3000k and half 6200k), so you can dial in your perfect color of white using a remote control.

Features

• High CRI of 83+
• Strips can be controlled to produce any color of white between 3000K and 6200K
• Fully Dimmable
• 120° Beam Angle
• Efficiency up to 92 lm/W
• Highest quality 3528 SMD LEDs
• 3M VHB 4930 adhesive backing for a long lasting bond
• Single BIN LED selection to ensure color consistency (3-Step MacAdam)
• Maximum Length in Series 32ft 10in (10m)
• 12V DC Input (24V available by special order)
• Can be cut every 2" (50mm)
• Thick double layer 2oz copper PCB for excellent thermal management
• Short LED pitch of 5/16" (8mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color setting on remote</th>
<th>Lumen / foot (Meter)</th>
<th>CRI</th>
<th>Gamut Score RG (Color Sat.)</th>
<th>Relative Fidelity Score (RF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-HYB3062</td>
<td>3000K</td>
<td>132 lm/ft (435 lm/m)</td>
<td>85</td>
<td>96.4</td>
<td>82.8</td>
</tr>
<tr>
<td>CB-HYB3062</td>
<td>4200K</td>
<td>266 lm/ft (871 lm/m)</td>
<td>83</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CB-HYB3062</td>
<td>6200K</td>
<td>132 lm/ft (435 lm/m)</td>
<td>83</td>
<td>97.4</td>
<td>80.3</td>
</tr>
</tbody>
</table>
UltraBright™ Architectural Tunable Dynamic White Series

Our UltraBright™ Architectural Dynamic Tunable White Series LED strip light can be adjusted to produce very specific shades of white. This hybrid strip light is not only fully dimmable, but allows you to control the color temperature (shade of white) with the touch of a remote! It is the perfect lighting solution for projects that require a specific shade of white or the ability to change the shade of white over time.

Features

• High CRI of 83+
• Strips can be controlled to produce any color of white between 1800k-3000k, 2400k-4200k, and 2700k-6200k.
• Fully Dimmable
• 120° Beam Angle
• Efficiency up to 80 lm/W
• Highest quality 3014 SMD LEDs
• 3M VHB 4930 adhesive backing for a long lasting bond
• Single BIN LED selection to ensure color consistency (3-Step MacAdam)
• Maximum Length in Series 32ft 10in (10m)
• 24V DC Input (12V available by special order)
• Can be cut every 4” (102mm)
• Thick double layer 2oz copper PCB for excellent thermal management
• Short LED pitch of 1/4” (7mm)

Specifications

<table>
<thead>
<tr>
<th>Product SKU</th>
<th>Color setting on remote</th>
<th>Average Lumen / foot (Meters)</th>
<th>CRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB-AS-DYN2430</td>
<td>2400K - 3000K</td>
<td>408 lm/ft (1,337 lm/m)</td>
<td>81</td>
</tr>
<tr>
<td>UB-AS-DYN2742</td>
<td>2700K - 4200K</td>
<td>464 lm/ft (1,523 lm/m)</td>
<td>81</td>
</tr>
<tr>
<td>UB-AS-DYN3062</td>
<td>3000K - 6200K</td>
<td>480 lm/ft (1,575 lm/m)</td>
<td>81</td>
</tr>
</tbody>
</table>
COMPARISON CHART

Tunable Dynamic White Output

<table>
<thead>
<tr>
<th>LED Strip</th>
<th>LED Strip</th>
<th>Color Temp.</th>
<th>Brightness</th>
<th>Lumens/ Foot</th>
<th>Watts/ Foot</th>
<th>Amps/ Foot</th>
<th>Lumens/ Watt</th>
<th>Ingress Protection</th>
<th>Voltage</th>
<th>CRI</th>
<th>Max. Run (in series)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ColorBright™ Tunable Dynamic White Series</td>
<td>3000K - 6200K</td>
<td>⚫⚫⚫⚫⚫</td>
<td>= 266</td>
<td>= 2.9</td>
<td>= 0.24</td>
<td>= 92</td>
<td>IP20</td>
<td>12V (24V)*</td>
<td>80</td>
<td>266</td>
<td>32 ft 10 in</td>
</tr>
<tr>
<td>ColorBright™ Architectural Tunable Dynamic White Series</td>
<td>3000K - 6200K</td>
<td>⚫⚫⚫⚫⚫</td>
<td>= 464</td>
<td>= 5.1</td>
<td>= 0.21</td>
<td>= 86</td>
<td>IP20</td>
<td>24V</td>
<td>80</td>
<td>266</td>
<td>32 ft 10 in</td>
</tr>
</tbody>
</table>

COMPATIBLE ALUMINUM EXTRUSIONS

- **GIZA Anodized Extrusion**
  (SKU: KL-B5556ANODA-1m)
  - Covers
    - HS 22 Clear Cover (SKU: KL-17022-1m)
    - HS 22 Frosted Cover (SKU: KL-17011-1m)
  - End Caps
    - GIZA End Cap without Wire Hole (SKU: KL-24007)
  - Mounting Accessories
    - GP Surface Spring (SKU: KL-00293)
    - Mounting Bracket (SKU: KL-24143)

- **45-ALU Anodized Extrusion**
  (SKU: KL-B4023ANODA-1m)
  - Covers
    - HS Clear Cover (SKU: KL-1370-1m)
    - HS Frosted Cover (SKU: KL-1369-1m)
    - LIGER Frosted Cover (SKU: KL-17031-1m)
  - End Caps
    - 45-ALU End Cap without Wire Hole (SKU: KL-1383)
    - 45-ALU End Cap with Wire Hole (SKU: KL-1440)
  - Mounting Accessories
    - Zinc Mounting Bracket (SKU: KL-24144)

- **KLUS MICRO-ALU Anodized Extrusion**
  (KL-B1888ANODA-1m)
  - Covers
    - HS Clear Cover (SKU: KL-1370-1m)
    - HS Frosted Cover (SKU: KL-1369-1m)
    - LIGER Frosted Cover (SKU: KL-17031-1m)
  - End Caps
    - MICRO-ALU End Cap without Wire Hole (SKU: KL-1059)
    - MICRO-ALU End Cap with Wire Hole (SKU: KL-1060)
  - Mounting Accessories
    - Zinc Mounting Bracket (SKU: KL-24190)

**NOTE:** All solderless connectors do not fit inside this aluminum extrusion.
### KLUS PDS4-ALU Anodized Extrusion

**Covers**
- HS Clear Cover (SKU: KL-1370-1m)
- HS Frosted Cover (SKU: KL-1369-1m)
- Liger Frosted Cover (SKU: KL-17031-1m)

**End Caps**
- PDS4-ALU End Cap without Wire Hole (SKU: KL-1055)
- PDS4-ALU End Cap with Wire Hole (SKU: KL-1057)

**Mounting Accessories**
- Zinc Mounting Bracket (SKU: KL-24190)

*NOTE: All solderless connectors do not fit inside this aluminum extrusion.*

### KLUS TAMI Anodized Extrusion

**Covers**
- Comes with Translucent Cover

**End Caps**
- Eco TAMI End Cap (SKU: KL-20051)

**Mounting Accessories**
- Zinc Mounting Bracket (SKU: KL-24190)

*NOTE: All solderless connectors do not fit inside this aluminum extrusion.*

### KLUS KOPRO Anodized Extrusion

**Covers**
- KOPRO-L Cover (SKU: KL-17092-1)

**End Caps**
- KOPRO-L End Cap (SKU: KL-24116)

**Mounting Accessories**
- GP Surface Spring (SKU: KL-00293)
  - minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)

### KLUS LIPOD Anodized Extrusion

**Covers**
- HS 22 Clear Cover (SKU: KL-17022-1m)
- Liger 22 Frosted Cover (SKU: KL-17032-1m)

**End Caps**
- LIPOD-MET End Cap (SKU: KL-24051)

**Mounting Accessories**
- GP Surface Spring (SKU: KL-00293)
  - minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)
GLOSSARY

Lumens (lm) - Lumen is the measurement of brightness as perceived to the human eye. We are accustomed to using watts to measure the “brightness of light” because of incandescent lighting use. Today, we use lumen. Lumen is the most important variable when choosing your strip light. The higher the number, the brighter the light will be. Ensure that the strips you choose are bright enough for your application.

AC - Alternating Current. This is the electricity that is used in most homes and commercial spaces. It’s often referred to as line voltage and number differs from country to country. US line voltage is typically 90V-220V, whereas it often averages higher in Europe.

DC - Direct Current. Most LED strips on the market use low-voltage DC. A transformer or low-voltage battery is often required to step-down the AC voltage to a suitable level for the LED strips, which is normally 12V or 24V DC.

CRI - Color Rendering Index is the measurement of how colors look under a light source when compared with sunlight. Having information on the CRI of an LED strip light is important because you want to make sure that colors are being accurately represented by the light source.

LED Pitch - The distance between the individual chips on a strip. It is absolutely crucial to understand the importance that pitch plays in your project. The shorter the pitch, the more uniform the light tends to be and the less spotting tends to happen.

Chip Size - LED chips are all not all equal. What is the difference between 3528, 3014, and 5050 LEDs? The four digits represent the size of the chips in millimeters. For example, the 3528 chip is 3.5 mm X 2.8mm. Some chips are brighter than others and some have special uses and restrictions.

CCT - Not all white light appears the same. Correlated Color temperature (CCT) defines the color appearance of a white light. CCT is defined in degrees Kelvin. Most white lights fall in a spectrum between 1800K and 6500K. When falling below 3000K, the light looks noticeably warmer like a candle. On the other end of the spectrum, the lights have a blue-ish tint and cooler tone when passing above 6500K. Some color temperatures will better suit your design than others. Choose complementary highlighting tones and look at example photos to find which you feel will look the best.

LED Binning - Simply put, binning is the process of grouping LEDs during production so that they match with LEDs of the same color sector. For consistent light and color output, we make sure that the LEDs are always ordered from the same bin.

LED - A Light Emitting Diode (LED) is a solid-state semiconductor device that converts electrical energy directly into light.

Solid-state lighting - Lighting devices that do not contain moving parts or parts that can break, rupture, shatter, leak, or contaminate the environment. LEDs do not use electrical filaments or gasses to produce light.

Luminous efficacy - This is calculated by measuring the lumen output and then dividing that number by watts. For example, a strip that has a lumen output of 300lm/ft and a wattage draw of 3w/ft has an efficiency of 100lm/W.

TM-30 - The Fidelity Index measures how closely the observed light can render colors like the sun, using 99 color samples.

Gamut Index - How saturated or desaturated colors are (aka how intense the colors are).

Color Vector Graphic - Measures which colors are saturated/desaturated and whether there is a hue shift in any of the 16 color bins.

CQS - Color Quality Scale is an alternative to the unsaturated CRI measurement colors. There are 15 highly-saturated colors that are used to compare chromatic discrimination, human preference, and color rendering.

IP Rating - This is a rating system that defines the ability of a product to be able to work in different environments. IP is an acronym for “Ingress Protection”. It is a measurement of the protection an item will have against solid objects (dust, sand, dirt, etc.) and liquids.

IP65 - Water resistant. “Protected against water jets from any angle” *Do NOT submerge IP65 LED lights. These are not waterproof.

IP67 - Water resistant plus. “Protected against the events of temporary submersion (10 minutes)” *Do NOT submerge IP67 LED lights for extended periods, these are not waterproof.

IP68 - Waterproof. “Protected against the events of permanent submersion up to 3 meters”