Quick Start Guide
This guide is designed to help you set up and install the WLS15 LED Strip Light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for p/n 197493 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

For PWM dimming, use with the LC65P2T 2-wire dimmer module. For more information, refer to the LC65 LED Dimmer Module datasheet, p/n 177086. This module can only be used with the single color models.

### Single Color Models

<table>
<thead>
<tr>
<th>Family</th>
<th>Cascadable</th>
<th>Color</th>
<th>Length</th>
<th>Window</th>
<th>Construction</th>
<th>Connector*</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLS15</td>
<td>C</td>
<td>DW</td>
<td>0360</td>
<td>D</td>
<td>S</td>
<td>C2</td>
</tr>
</tbody>
</table>

- **C** = Cascadable
- **X** = Non-cascadable
- **DW** = Daylight white
- **WW** = Warm white
- **D** = Diffuse
- **S** = Sealed (IEC IP66, IEC IP67)
- **C2** = 2 m (6.5 ft) integral PVC cable
- **QP** = 150 mm (5.9 in) PVC cable with M12/Euro-style quick disconnect
- **QS** = 150 mm (5.9 in) PVC cable with Deutsch DTM connector

*Models with a quick disconnect or Deutsch DTM connector require a mating cordset

### Dual Color Models

<table>
<thead>
<tr>
<th>Family</th>
<th>Cascadable</th>
<th>Color 1</th>
<th>Color 2</th>
<th>Length</th>
<th>Window</th>
<th>Construction</th>
<th>Connector*</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLS15</td>
<td>C</td>
<td>W</td>
<td>R</td>
<td>0360</td>
<td>D</td>
<td>S</td>
<td>C2</td>
</tr>
</tbody>
</table>

- **W** = Daylight white
- **B** = Blue
- **G** = Green
- **R** = Red
- **Y** = Yellow
- **A** = Amber
- **D** = Diffuse
- **S** = Sealed (IEC IP66, IEC IP67)
- **C2** = 2 m (6.5 ft) integral PVC cable
- **QP** = 150 mm (5.9 in) PVC cable with M12/Euro-style quick disconnect

*Models with a quick disconnect require a mating cordset

### Wiring Diagrams

#### QP Models

<table>
<thead>
<tr>
<th>Male</th>
<th>Female</th>
<th>Pin</th>
<th>Wire Color</th>
<th>Single Color Models</th>
<th>Dual Color Models</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="QP Male Diagram" /></td>
<td><img src="image" alt="QP Female Diagram" /></td>
<td>1</td>
<td>brown</td>
<td>12 V dc or 24 V dc</td>
<td>Color 1: 12 V dc or 24 V dc</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>3</td>
<td>blue</td>
<td>dc common</td>
<td>dc common</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>4</td>
<td>black</td>
<td>Not used</td>
<td>Color 2: 12 V dc or 24 V dc (color 2 overrides color 1)</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>3</td>
<td>white</td>
<td>Not used</td>
<td>Not used</td>
</tr>
</tbody>
</table>

#### QS Models: Single Color Models Only

<table>
<thead>
<tr>
<th>Male</th>
<th>Female</th>
<th>Pin</th>
<th>Wire Color</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="QS Male Diagram" /></td>
<td><img src="image" alt="QS Female Diagram" /></td>
<td>1</td>
<td>brown</td>
<td>12 V dc or 24 V dc</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>2</td>
<td>blue</td>
<td>dc common</td>
</tr>
</tbody>
</table>
Specifications

Supply Protection Circuitry
Protected against reverse polarity and transient voltages

Supply Voltage
12 V dc or 24 V dc nominal
Absolute operational limits of 10 V dc to 15 V dc and 20 V dc to 27 V dc
Use only with a suitable Class 2 power supply (UL) or a SELV power supply (CE)
Single Color Light Models can be PWM dimmed between 25% to 100% with a frequency up to 1000 Hz

Spacing Criterion
Vertical: 1.26  Horizontal: 1.26

Supply Current

<table>
<thead>
<tr>
<th>Light Length</th>
<th>Typical Current (A) at 25°C</th>
<th>Max. Current (A) at -40°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12 V dc</td>
<td>24 V dc</td>
</tr>
<tr>
<td>0220 mm</td>
<td>0.19</td>
<td>0.10</td>
</tr>
<tr>
<td>0360 mm</td>
<td>0.38</td>
<td>0.20</td>
</tr>
<tr>
<td>0500 mm</td>
<td>0.57</td>
<td>0.30</td>
</tr>
<tr>
<td>0640 mm</td>
<td>0.76</td>
<td>0.40</td>
</tr>
<tr>
<td>0920 mm</td>
<td>1.14</td>
<td>0.60</td>
</tr>
<tr>
<td>1200 mm</td>
<td>1.52</td>
<td>0.80</td>
</tr>
</tbody>
</table>

Connections
2 m (6.6 ft) integral PVC cable, 150 mm (6 in) PVC cable with a 4-pin M12/Euro-style quick disconnect, or 150 mm (5.9 in) 2-pin Deutsch DTM series sealed cable; models with a quick disconnect or Deutsch DTM connector require a mating cordset.
Do not spray cable with high-pressure sprayer or cable damage will result.

Dimensions

Models | L1            | L2            | L3            |
-------|---------------|---------------|---------------|
WLS15..0220.. | 146.4 mm (5.76 inches) | 194 mm (7.64 inches) | 220 mm (8.86 inches) |
WLS15..0360.. | 286.4 mm (11.28 inches) | 334 mm (13.15 inches) | 360 mm (14.17 inches) |
WLS15..0500.. | 426.4 mm (16.79 inches) | 474 mm (18.66 inches) | 500 mm (19.69 inches) |
WLS15..0640.. | 566.4 mm (22.3 inches) | 614 mm (24.17 inches) | 640 mm (25.2 inches) |
WLS15..0920.. | 846.4 mm (33.32 inches) | 894 mm (35.2 inches) | 920 mm (36.22 inches) |
WLS15..1200.. | 1126.4 mm (44.35 inches) | 1174 mm (46.22 inches) | 1200 mm (47.24 inches) |

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1 Values shown at 25°C - current and lumen values decrease 0.4% per 1°C from ambient. For example, a 1200 mm unit will have a maximum current of 1.92 A at -40°C and 1.33 A at +60°C.