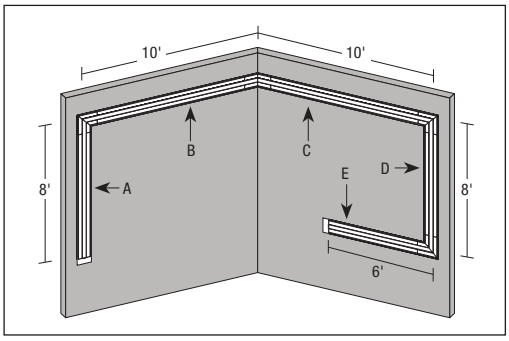
# HOW TO ORDER

## TRULINE BIY (BUILD-IT-YOURSELF) .5A, 1A & 1.6A

The steps below show how to order TruLine BIY .5A, 1A, and 1.6A, as well as how to specify a compatible Power Supply. TruLine BIY uses Pre-Formed Components to simplify the installation process for complex lighting designs. TruLine BIY .5A is used as the example below to walk through the 9 steps. For additional assistance or custom designs, send drawings to **design@PureEdgeLighting.com** or call **773.770.1195**. For inspiration on using TruLine combined with other products see the **Modular Supplement Catalog** at **PureEdgeLighting.com/resources**.

## 1

**Create a lighting design** with dimension lines, rounding up to the nearest whole foot. Label each channel (necessary for step 2).



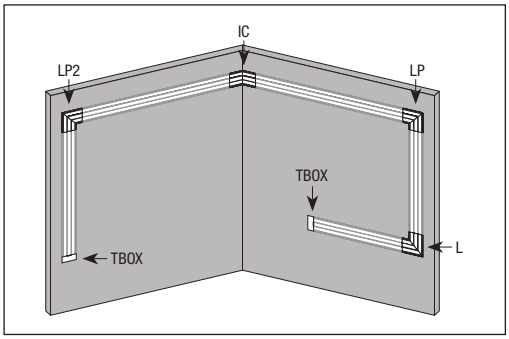

## 2

**Determine overall run length** by adding all channel lengths together.

**A + B + C + D + E = Overall System Length**
**8' + 10' + 10' + 8' + 6' = 42'**

## 3

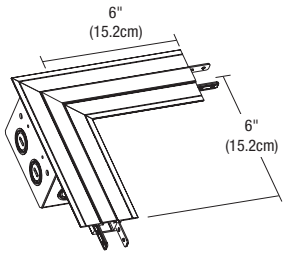
**Determine quantity of Pre-Formed Components and Take-Up Boxes needed** based on lighting design. In this example, (1) LP2, (1) LP, (1) L, (1) IC, and (2) TBOX are needed.



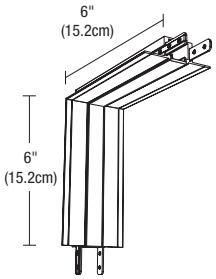

## 4

**Determine quantity of TruLine channels needed** by subtracting Pre-Formed Component lengths from overall system length (step 2) and round up to the nearest 8 foot increment. Each channel connector is typically 6 inches on each side. TruLine channels and Pre-Formed Components include the lens. In this example, five 8 foot channels are needed.

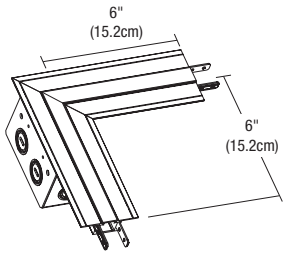
*Channel Joiners are included with Pre-Formed Components and power feeds. Additional joiners may be needed based on lighting design, and can be ordered separately. This example does not require extra joiners.



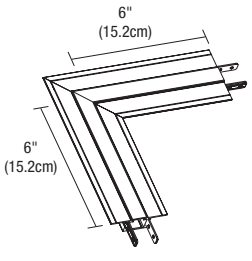

**TL.5A-LP2**




**TL.5A-IC**




**TL.5A-LP**




**TL.5A-L**

**Total Pre-Formed Component length = 6" + 6" + 6" + 6" + 6" + 6" + 6" + 6" = 48" ÷ 12 = 4'**
**Overall run length - total Pre-Formed Component length = 42' - 4' = 38'**
**Round up to the nearest 8 foot increment = 40' = Five 8' Channels**

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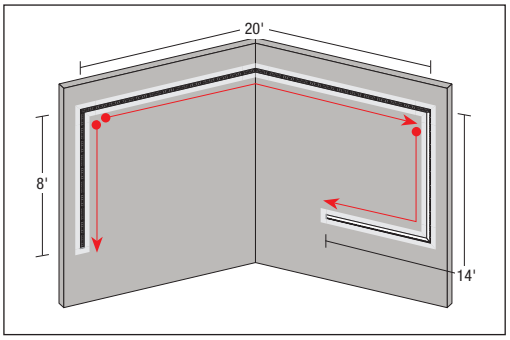
**5** **Select LED Soft Strip** based on wattage and color temperature.

**For this example, 2.5W White LED Soft Strip at 3000K is selected.**

**6** **Determine length of LED Soft Strip needed** based on lighting design. A new LED Soft Strip is needed when the design changes planes or the maximum length is reached, and can only start and end in a power connector or a Take-Up Box. For this example, (3) LED Soft Strips are needed at different lengths, 8, 20, and 14 feet.

*For lighting designs using TruLine 1.6A, (2) of each LED Soft Strip are needed for each channel. If the example above was using TruLine 1.6A (2) 8, 20, and 14 foot LED Soft Strips will be needed.




**7** **Review Power Supply options** on the website to determine what type of Power Supply best fits the dimming (ELV, 0-10V, or DMX) and space conditions as well as color temperature selection.

**For this example, an ELV Power Supply is being selected.**

**8** **Determine the most efficient Power Supply** based on the lighting design and LED Soft Strip selection using the chart on the next page. For this example, one **PSB-60W-ELV-24VDC** Power Supply powers the 8 and 14 foot LED Soft Strips, and a second **PSB-60W-ELV-24VDC** Power Supply powers the 20 foot LED Soft Strip. Multiple Power Supplies may be required based on the lighting design. For more information consult our lighting experts by emailing **design@PureEdgeLighting.com** or calling **773.770.1195**.

**9** **Create a Bill of Materials** to list all components needed.

| QUANTITY | ORDERING CODE |
|---|---|
| 1 | TL.5A-LP2 |
| 1 | TL.5A-IC |
| 1 | TL.5A-LP |
| 1 | TL.5A-L |
| 2 | TL.5A-TBOX |
| 5 | TL.5A-CHLN-8FT |
| 1 | SS2C-24V-8-30K |
| 1 | SS2C-24V-20-30K |
| 1 | SS2C-24V-14-30K |
| 2 | PSB-60W-ELV-24VDC |

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Use the chart below to determine the most efficient Power Supply for step 8. Keep in mind the overall run length (step 2), selected LED Soft Strip (step 5), and the type of Power Supply determined (step 7). For this example the overall run length is **42'**, the LED Soft Strip is **2.5 watts at 3000K**, and the type of Power Supply determined is **ELV**. For this example, one **PSB-60W-ELV-24VDC** Power Supply powers the 8 and 14 foot LED Soft Strips, and a second **PSB-60W-ELV-24VDC** Power Supply powers the 20 foot LED Soft Strip.

| ELECTRONIC LOW VOLTAGE (ELV) DIMMING POWER SUPPLIES | TL.5A & TL1A WHITE (24K - 57K) & WARM DIM (27D & 30D) | | | | TL1.6A WHITE (24K - 57K) & WARM DIM (27D & 30D) | | | |
|---|---|---|---|---|---|---|---|---|
| | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 2WDC Max Feet | 5WDC Max Feet | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 5WDC Max Feet | 10WDC Max Feet |
| PS-40W-ELV-24VDC | 1 | 1 | 16 | 8 | 1 | 1 | 8 | 4 |
| PSB-60W-ELV-24VDC | 1 | 1 | 24 | 12 | 1 | 1 | 12 | 6 |
| PSB-100W-ELV-24VDC | 1 | 1 | 40 | 20 | 1 | 1 | 20 | 10 |
| PSB-2X60W-ELV-24VDC | 1 | 2 | 48 | 24 | 1 | 2 | 24 | 12 |
| PSB-2X100W-ELV-24VDC | 1 | 2 | 80 | 40 | 1 | 2 | 40 | 20 |
| PSB-3X100W-ELV-24VDC | 1 | 3 | 120 | 60 | N/A | N/A | N/A | N/A |
| PSB-4X100W-ELV-24VDC | 1 | 4 | 160 | 80 | 1 | 4 | 80 | 40 |

| 0-10V DIMMING POWER SUPPLIES | TL.5A & TL1A WHITE (24K - 57K) | | | | TL1.6A WHITE (24K - 57K) | | | |
|---|---|---|---|---|---|---|---|---|
| | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 2WDC Max Feet | 5WDC Max Feet | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 5WDC Max Feet | 10WDC Max Feet |
| PSB-25W-010-24VDC | 1 | 1 | 10 | 5 | 1 | 1 | 5 | 2 |
| PSB-96W-010-24VDC | 1 | 1 | 40 | 20 | 1 | 1 | 20 | 10 |
| PSB-2X96W-010-24VDC | 1 | 2 | 80 | 40 | 1 | 2 | 40 | 20 |
| PSB-3X96W-010-24VDC | 1 | 3 | 120 | 60 | N/A | N/A | N/A | N/A |
| PSB-4X96W-010-24VDC | 1 | 4 | 160 | 80 | 1 | 4 | 80 | 40 |

| ELECTRONIC LOW VOLTAGE (ELV) DIMMING POWER SUPPLIES | TL.5A & TL1A 2K4K | | | TL1.6A 2K4K | | |
|---|---|---|---|---|---|---|
| | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 5WDC Max Feet | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 10WDC Max Feet |
| PS-40W-ELV-24VDC | 2 | 1 | 16 | 2 | 1 | 8 |
| PSB-2X60W-ELV-24VDC | 1 | 1 | 20 | 1 | 1 | 12 |
| PSB-2X100W-ELV-24VDC | 1 | 2 | 40 | 1 | 1 | 20 |
| PSB-4X100W-ELV-24VDC | 1 | 4 | 80 | 1 | 2 | 40 |
| **0-10V DIMMING POWER SUPPLIES** | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 5WDC Max Feet | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 10WDC Max Feet |
| PSB-2X96W-010-24VDC | 1 | 1 | 20 | 1 | 1 | 20 |
| PSB-2X96W-010-24VDC | 1 | 2 | 40 | N/A | N/A | N/A |
| PSB-4X96W-010-24VDC | 1 | 4 | 80 | 1 | 2 | 40 |

| DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES | TL.5A & TL1A 2K4K, RGB & RGBW | | | | TL1.6A 2K4K, RGB & RGBW | | | |
|---|---|---|---|---|---|---|---|---|
| | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 5WDC 2K4K & RGB Max Feet | 6WDC RGBW Max Feet | # OF POWER SUPPLIES NEEDED | # OF CLASS 2 24VDC FEEDS | 10WDC 2K4K & RGB Max Feet | 12WDC RGBW Max Feet |
| PSB-25W-24VDC-RGB | 1 | 1 | 5 | 4 | 1 | 1 | 2 | 2 |
| PSB-25W-24VDC-RGB | N/A | N/A | N/A | N/A | 2 | 1 | 5 | 4 |
| PSB-100W-24VDC-RGB | 1 | 1 | 20 | 16 | 1 | 1 | 10 | 8 |
| PSB-2X100W-24VDC-RGB | 1 | 2 | 40 | 32 | 1 | 1 | 20 | 16 |
| PSB-3X100W-24VDC-RGB | 1 | 3 | 60 | 48 | N/A | N/A | N/A | N/A |
| PSB-4X100W-24VDC-RGB | 1 | 4 | 80 | 64 | 1 | 2 | 40 | 32 |

Maximum lengths are determined based on average power consumption.

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