UltraBright™ Industrial

Series CRI80+

Product Data Sheet

7 Year Warranty

RoHS COMPLIANT

CE

c(UL)us LISTED
(LOW VOLTAGE LUMINAIRE)
E362522

Description

The UltraBright™ Industrial Series CRI80+ is one of the brightest LED strips on the planet. Emitting a staggering 1,156 lm/ft with new, discreet 2835 SMD chips, this series continues to redefine and push the limits of LED strip lighting. This strip is made to surpass all expectations of our high-end commercial and OEM clients in lighting, design, and architecture, where excellence is never compromised.

Product Features

- High CRI up to 85
- Highest Brightness - Up to 1,156 Lumen/ft (3,793/Meter)
- Fully dimmable
- Highest quality components and premium packaged 2835 LEDs
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Thermally Resistant 3M VHB 4930 adhesive for long lasting bond
- 120° Beam Angle
- Efficiency up to 173 Lumens/W
- Only 3/8" (10mm) strip width

- Short LED pitch of 5/16" (8mm)
- Available in 12V and 24V DC Input
- 12V can be cut every 1 1/4" (32mm)
- 24V can be cut every 2 1/2" (64mm)
- 36 LEDs/Foot (120/Meter)
- Thick double layer 4 oz copper PCB for excellent thermal management
- Operating Temperature -4°F to +104°F (-20°C to 40°C)
- Maximum Run Length in Series: 12V (9ft / 3m), 24V (19ft / 6m)
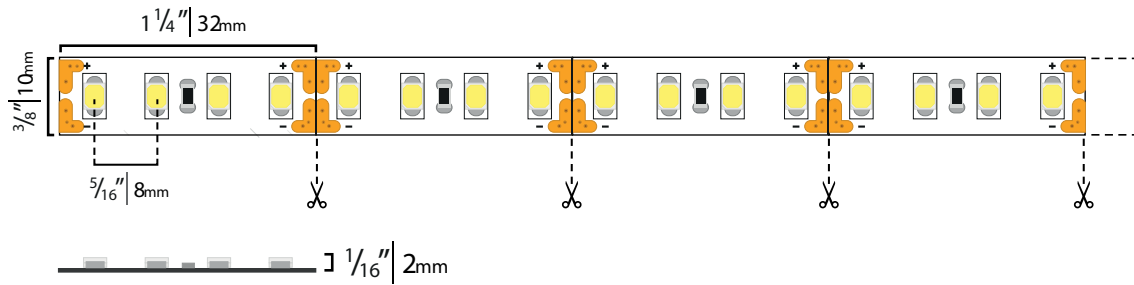
Product Specific Specifications

Product. SKU	Color* (CCT)	Watts / foot (Meter)	Lumen / foot (Meter)	Luminous efficacy (Lumens / Watt)	CRI	Gamut Score Rg (Color Sat.)	Relative Fidelity Score (RF)	TLCI (Qa)	CQS
UB-IS-30K80C	3000K	6.6 W/ft 21.6 W/m	1048 lm/ft (3439 lm/m)	160 lm/W	85	96	86	72	85
UB-IS-35K80C	3500K	6.6 W/ft 21.6 W/m	1156 lm/ft (3793 lm/m)	170 lm/W	85	96	85	73	84
UB-IS-40K80C	4000K	6.6 W/ft 21.6 W/m	1126 lm/ft (3694 lm/m)	168 lm/W	85	94	85	72	84
UB-IS-50K80C	5000K	6.6 W/ft 21.6 W/m	1026 lm/ft (3366 lm/m)	173 lm/W	85	93	84	73	82
UB-IS-62K80C	6200K	6.6 W/ft 21.6 W/m	1068 lm/ft (3503 lm/m)	166 lm/W	85	91	83	76	83

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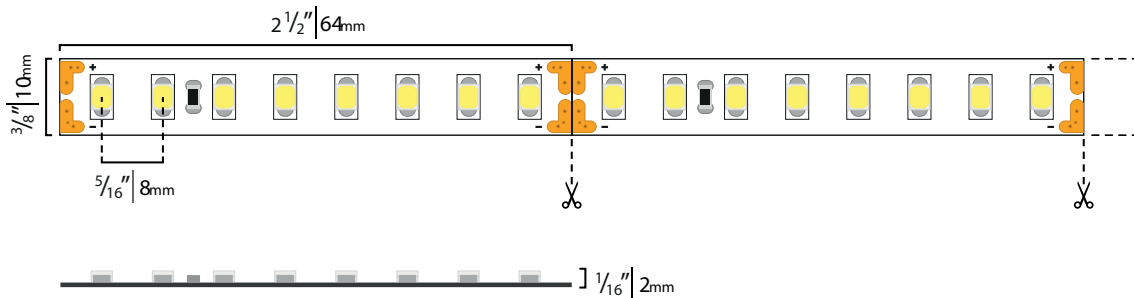
Ordering Code

Brand	Series	CCT	Voltage	Length
UB - UltraBright	**IS-** Industrial Series	**30K80C** - 3000K80+ CRI **35K80C** - 3500K80+ CRI **40K80C** - 4000K80+ CRI **50K80C** - 5000K80+ CRI **62K80C** - 6200K80+ CRI	**12V -** **24V -**	**16FT** - 16ft Reel **98FT** - 98ft Reel

Dimensions 12V

Dimensions 24V

Example Installation and Layout

In Series

AC Outlet
(or AC source)

Transformer → Dimmer / Controller (Optional) → LED Strip

In Parallel

AC Outlet
(or AC source)

Transformer → Dimmer / Controller (Optional) → LED Strips
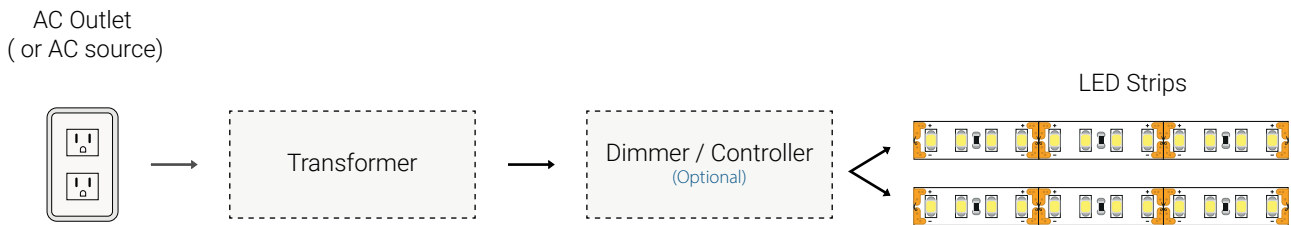
Dimming Options

Lutron Style Wall Dimmer

120V AC Magnetic/Electronic Low Voltage Dimmer Switch

120V AC Power

Input		
Color	Symbol	Type
Green	⏚	Ground Wire
Black	L	Line (hot)
White	N	Neutral

Output		
Color	Symbol	Type
Black	−	Negative
Red	+	Positive

In-Line Dimming

Mean Well
Power Supply

AC   DC

LED CONTROLLER
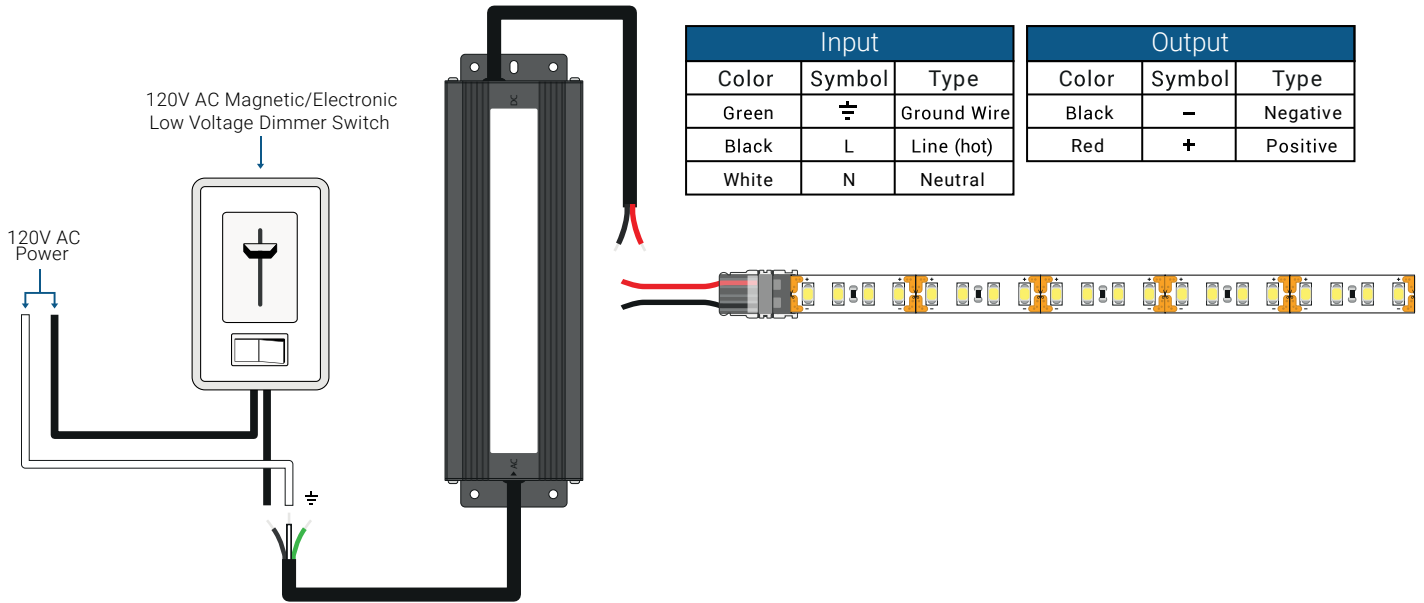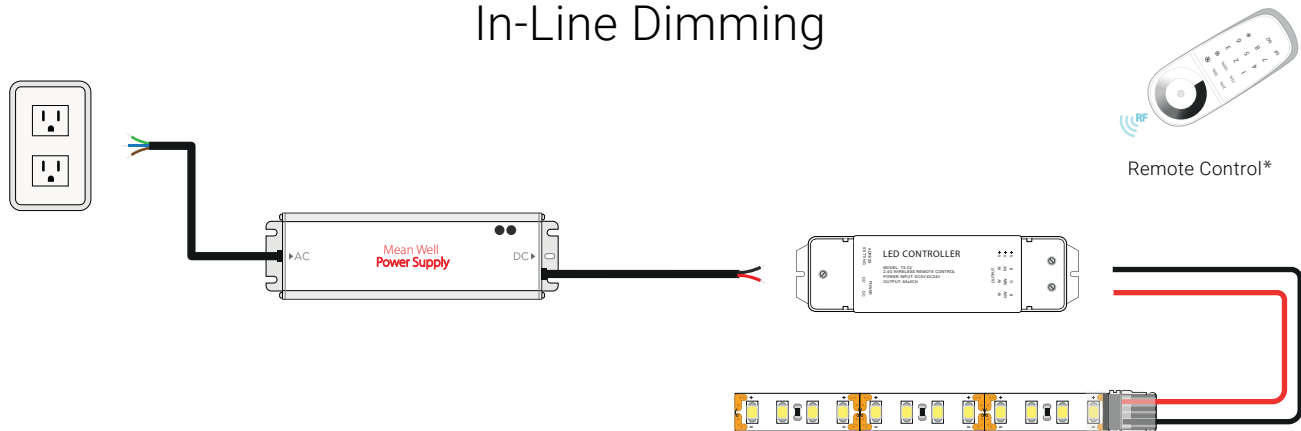
Remote Control*

*Remote Control (SKU: SC-MZ-CTRL) can be paired to 8 total receivers. Multiple remotes cannot be paired to a single receiver (max 1)

# Strip Light Connectors

SKU	Description	Wire Gauge	Amp Limit **	Mockup
GRIP-SC-C1-10-0*	Attaches LED strip directly to a Power Supply/Driver, low voltage control or DC source.	20 AWG	5 Amps	
GRIP-SC-C1-10-12* GRIP-SC-C1-10-36*	Attaches LED strip directly to a Power Supply/Driver, low voltage control or DC source.	20 AWG		
GRIP-SC-C2-10-06*	Attaches two sections of LED strip together. Wire lead allows for turns around tight corners.	20 AWG		
GRIP-SC-C3-10-0*	Attaches two sections of LED strip together in a continuous run.	-		

* Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.55 A/ft (1.8 A/m) at 12 volts, and of 0.275 A/ft (0.9 A/m) at 24 volts.

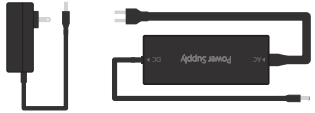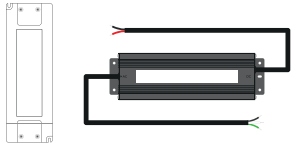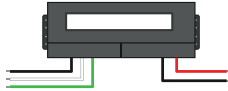** Be sure no more than 5 amps is drawn after any solderless connector.

Solderless Connection Guide
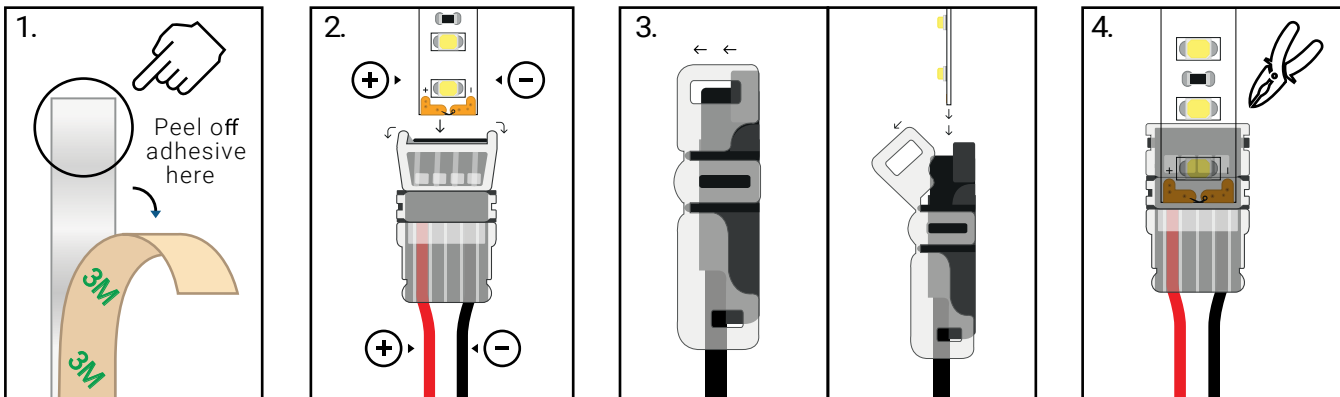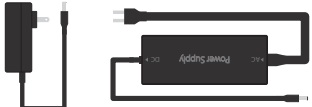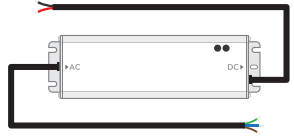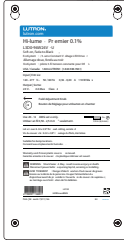
1. Remove 1/4" of 3M adhesive tape on the back from the end of the strip that you want to connect. It must be removed to allow it to fit properly with the solderless connector. *See Diagram 1*

2. Double check the polarity of the strip to match the positive (+) markings together and negative (-) markings together. If you accidentally close the connector before you're ready, you can use a small flathead screwdriver to pry the top back open.

3. Open the top of the grip connector and insert the LED strip inside. Make sure the LED strip is facing up towards the translucent top and the solder pads are directly above the small hooks on the connector. *See Diagram 3*
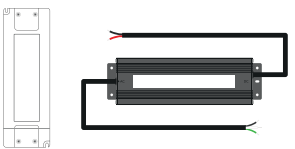
4. Once everything is in order, use pliers to close and lock the connector. You'll hear a "click" sound when it is properly closed. *See Diagram 4*

NOTE: Soldering is the preferred method. If you need further assistance, please download our Solderless Connector Installation Guide from our website

Compatible Drivers (12V)

	Power Supply	LED Strip Length	SKU	Diagram
Non-Dimmable	**Wall Mounted Power Supply / Desktop Power Supply**	1 ft 2 ft 3 - 5 ft 6 - 8 ft 9 - 11 ft	12V-WMPS-1 12V-DPS-2 12V-DPS-4 12V-DPS-6 12V-DPS-8	
	Mean Well™ HLG	1 - 5 ft 6 - 8 ft 9 - 16 ft 17 - 20 ft 21 - 26 ft 27 - 36 ft 37 - 65 ft	HLG-40H-12A HLG-80H-12A HLG-120H-12A HLG-150H-12A HLG-240H-12A HLG-320H-12A HLG-600H-12A	
	Mean Well™ LPV	1- 2 ft 3 - 4 ft 5 - 8 ft 9 - 13 ft	LPV-20-12 LPV-35-12 LPV-60-12 LPV-100-12	
Dimmable	**Zurik® EMLV**	1 - 4 ft 5 - 8 ft 9 - 16 ft 17 - 27 ft 28 - 40 ft	ZRK-EMLV2-30W-12VDC ZRK-EMLV2-60W-12VDC ZRK-EMLV2-120W-12VDC-J ZRK-EMLV2-200W-12VDC-J ZRK-EMLV2-300W-12VDC-J	
	Zurik® Universal Drivers	1 - 7 ft 8 - 15 ft 16 - 26 ft 27 - 41 ft 1 - 24 ft 25 - 41 ft	ZRK-UNV-60W-12VDC ZRK-UNV-120W-12VDC ZRK-UNV-200W-12VDC ZRK-UNV-300W-12VDC ZRK-UNV-C180W-12VDC ZRK-UNV-C300W-12VDC	

Compatible Drivers (24V)

	Power Supply	LED Strip Length	SKU	Diagram
Non-Dimmable	**Wall Mounted Power Supply / Desktop Power Supply**	1- 2 ft 3 - 7 ft 8 - 11 ft 12 - 14 ft	24V-WMPS-1 24V-DPS-2.5 24V-DPS-4 24V-DPS-5	
	Mean Well™ HLG	1 - 5 ft 6 - 8 ft 9 - 13 ft 14 - 16 ft 17 - 25 ft 26 - 32 ft 33 - 43 ft 44 - 81 ft	HLG-40H-24A HLG-60H-24A HLG-100H-24A HLG-120H-24A HLG-185H-24A HLG-240H-24A HLG-320H-24A HLG-600H-24A	
	Mean Well™ LPV	1- 2 ft 3 - 4 ft 5 - 8 ft	LPV-20-24 LPV-35-24 LPV-60-24	
Dimmable	**Zurik® EMLV**	1 - 4 ft 5 - 8 ft 9 - 13 ft 14 - 16 ft 17 - 27 ft 28 - 40 ft	ZRK-EMLV2-30W-24VDC ZRK-EMLV2-60W-24VDC ZRK-EMLV2-96W-24VDC-J ZRK-EMLV2-120W-24VDC-J ZRK-EMLV2-200W-24VDC-J ZRK-EMLV2-300W-24VDC-J	
	Zurik® Universal Drivers	1 - 7 ft 8 - 12 ft 13 - 15 ft 16 - 26 ft 27 - 41 ft 1 - 25 ft 26 - 52 ft	ZRK-UNV-60W-24VDC ZRK-UNV-96W-24VDC ZRK-UNV-120W-24VDC ZRK-UNV-200W-24VDC ZRK-UNV-300W-24VDC ZRK-UNV-C192W-24VDC ZRK-UNV-C384W-24VDC	

	Lutron® Hi-Lume™ Premier 0.1% Constant Voltage Driver
	
	• **Dimming Range:**
	  0.1-100%
	
	• **Description:**
	  Hi-Lume Premier 0.1% EcoSystem
	  24V constant voltage LED driver with Soft-on,
	  Fade-to-Black dimming technology
	
	⚙LUTRON®
		1 - 14 ft	L3D0-96W24V-U	

Compatible Aluminum Extrusions

KLUS GIZA Anodized Extrusion   (SKU: KL-B5556ANODA-1m)

Note: This extrusion only fits the Industrial Series CRI80+ with and without connectors, but without a cover.

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

End Caps
- KLUS GIZA End Cap (SKU: KL-24007)

Mounting Accessories
- KLUS GP Surface Spring (SKU:KL-00293)
- KLUS Mounting Bracket (SKU: KL-24143)

KLUS LIPOD Anodized Extrusion   (SKU: KL-B5554ANODA-1m)

Covers
- KLUS LIGER 22 Frosted Cover
  (SKU: KL-17032-1m)

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

Mounting Accessories
- KLUS Mounting Bracket (SKU: KL-24143)

KLUS KOPRO Anodized Extrusion   (SKU: KL-B6367ANODA-1m)

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

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

Mounting Accessories
- KLUS GP Surface Spring (SKU: KL-00293)

Safety And Disclosures

1. Installation must be in accordance with local and national electrical code regulations.

2. To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.

3. Only install with a Class 2 DC Constant Voltage LED driver to meet UL requirements.

4. Do not install in environment where excessive heat may exist.

5. LED strip lights must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.

6. Do not install indoor LED tape light products in outdoor / wet location environments. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.

7. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

8. Make sure the appropriate gauge wire is installed between driver, LEDs, and any dimmers. When choosing wire, calculate voltage drop, maximum amperage rating, and the location ratings on the wire. Improper wire selection and installation could overheat wires, and cause fire.

9. Do not modify product beyond instructions or warranty will be void.

10. We reserve the right to modify and improve the design of our fixtures without prior notice. Although we try our best to order the same colors every time, due to changes in technology and phosphors over time, we cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

Warranty Information

Limited Warranty

This product has a 7 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at https://www.flexfireleds.com/warranties/ within the Policies section. For warranty related questions please contact product support team at (support@flexfireleds.com).

Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser.

This limited warranty does not include product failures that are the result of:

Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.