4.8 W Low Power LED Strips

The 4.8W LED strip is a highly energy-efficient and versatile lighting solution, available in both 12V and 24V options to cater to a wide range of applications. It delivers vibrant illumination with a CRI 90, ensuring accurate colour rendering, and features a 120° beam angle for seamless, uniform light distribution. With our in-house assembly capabilities, we offer customised strip lengths tailored to your specific project requirements, providing flexibility and precision for any lighting design.

FEATURES AND BENEFITS:

- ✓ High CRI 90
- ✓ Wide 120° Beam Angle
- ✓ Available in Constant Voltage 12V DC or 24V DC
- ✓ 3M back tape for effortless installation
- ✓ Indoor and Outdoor Options (IP20 and IP65 nano)
- ✓ Long Lifespan, rated for 36,000 hours (L70)
- ✓ 5-year warranty

APPLICATION:

- ❖ Indoor and outdoor decorative lighting
- ❖ Cove and under-cabinet lighting
- ❖ Feature lighting for architectural elements
- ❖ Shelf and display lighting
- ❖ Ambient lighting for residential and commercial spaces

E-mail: sales@azoogi.com **Phone:** 1300 641 261 **Website:** www.azoogi.com.au **Address:** Unit 47, 10-12 Girawah Place, Matraville, NSW, 2036

NANO-COATING TECHNOLOGY: ADVANCED PROTECTION FOR LED STRIPS:

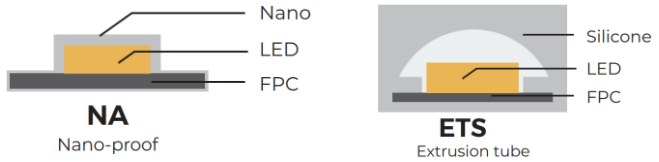
Nano-coating technology provides an innovative solution for enhancing LED strip performance and durability. This advanced protection method ensures resistance to moisture, dust, and dirt, making it an excellent choice for indoor and sheltered outdoor applications. Unlike traditional extrusion-filled solutions, Nano-coated strips are lightweight, flexible, and deliver consistent performance with minimal impact on brightness.

Key Advantages of Nano-Coating (NA):

- ✓ **High Lumen Output:** With a 98% lumen output rate, Nano-coated strips offer superior brightness retention compared to extrusion-filled alternatives, ensuring vibrant and efficient illumination.
- ✓ **Compact and Slim Design:** The compact size (8mm x 1.6mm) makes Nano-coated strips ideal for installations in tight profiles, such as PR001 and PR002, where extrusion-filled options cannot fit.
- ✓ **Moisture and Dust Protection (IP65):** Nano-coating creates a seamless protective layer, safeguarding the strip from water splashes, dust, and dirt without adding bulk or weight.

Why Choose Nano-Coated Strips?
Nano-coated strips are the perfect balance of performance, durability, and design flexibility. They provide adequate ingress protection for most indoor and sheltered outdoor applications while maintaining a sleek, minimalist profile. With a nearly unaltered lumen output rate and compatibility with compact installations, they outperform traditional extrusion-filled strips in both efficiency and versatility.

Important Installation Note:
If the strip is cut, ensure both ends are sealed with silicone glue to maintain its IP65 rating. For optimal protection and heat dissipation, always install Nano-coated LED strips within a profile.
Nano-coating represents the next generation of LED strip technology, delivering unmatched protection, flexibility, and performance for all your lighting needs.



IP Process	Description	Size	Lumen Output Rate
NO (IP20)	No proof	8mm x 1.5mm	**100%**
NA (IP65)	Nano-proof	8mm x 1.6mm	**98%**
ETS (IP65)	Extrusion tube	10mm x 4.8mm	**88%**

Azoogi LED LIGHTING

Lighting Council AUSTRALIA MEMBER

DATASHEET (12V):

Azoogi Product Code	Input Voltage DC (V)	Max. Power per Meter (W/m)	Colour Temperature	Lumen (lm/m)	CRI	LEDs per Meter	FPC Width (mm)	Beam Angle	Diagram	Cutting Increment	IP Rating	Operating Temperature	Warranty
STR001	12V	4.8W/m	2700 K	375lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP20	-20°C to +40°C	5 years
STR003	12V	4.8W/m	3000 K	395lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP20	-20°C to +40°C	5 years
STR005	12V	4.8W/m	4000 K	415lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP20	-20°C to +40°C	5 years
STR007	12V	4.8W/m	6000 K	395lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP20	-20°C to +40°C	5 years
STR011	12V	4.8W/m	2700 K	368lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP65 (NA)	-20°C to +40°C	5 years
STR013	12V	4.8W/m	3000 K	387lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP65 (NA)	-20°C to +40°C	5 years
STR015	12V	4.8W/m	4000 K	407lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP65 (NA)	-20°C to +40°C	5 years
STR017	12V	4.8W/m	6000 K	388lm/m	Ra>90	60leds/m	8mm	120°		50mm	IP65 (NA)	-20°C to +40°C	5 years

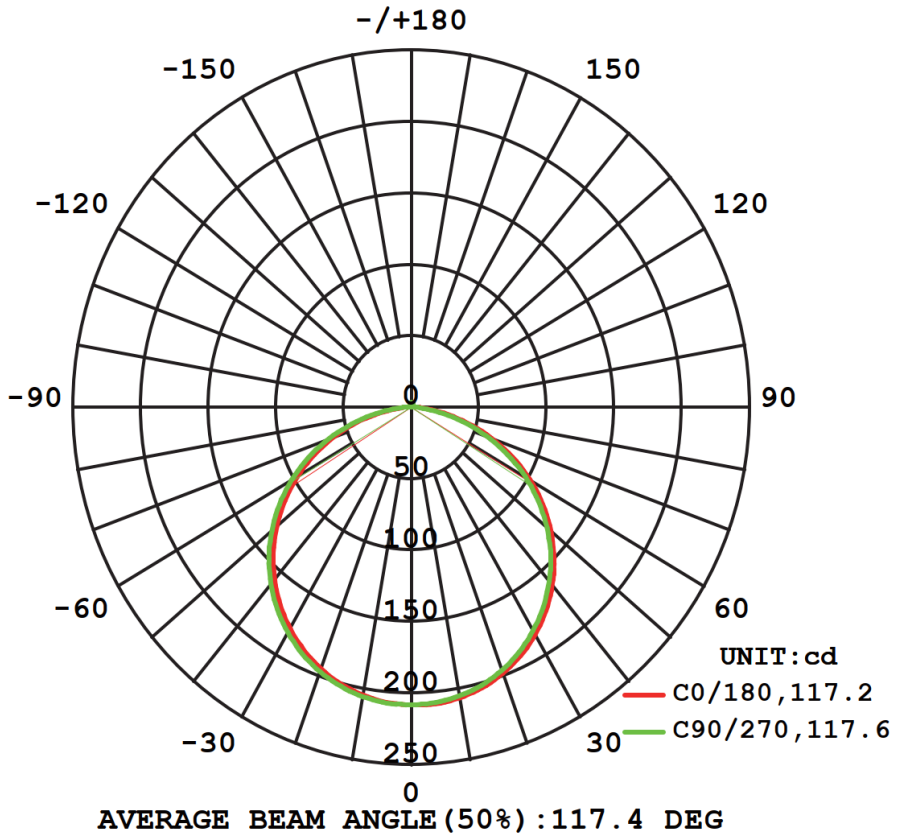
Azoogi LED LIGHTING

Lighting Council AUSTRALIA MEMBER

DATASHEET (24V):

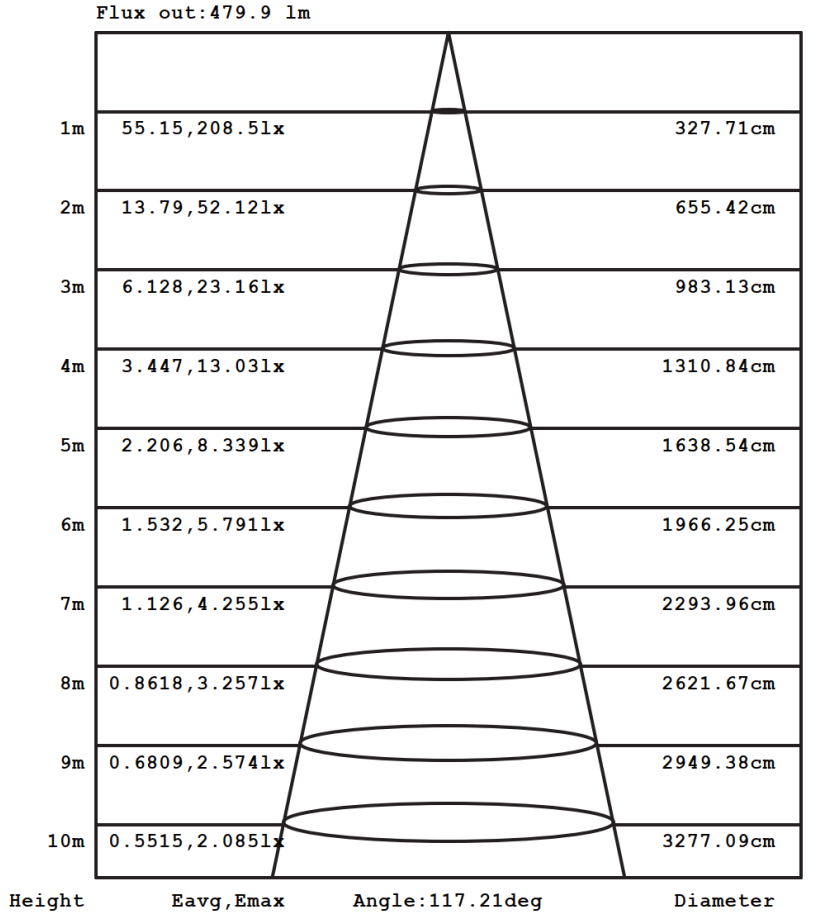
Azoogi Product Code	Input Voltage DC (V)	Max. Power per Meter (W/m)	Colour Temperature	Lumen (lm/m)	CRI	LEDs per Meter	FPC Width (mm)	Beam Angle	Diagram	Cutting Increment	IP Rating	Operating Temperature	Warranty
STR002	24V	4.8W/m	2700 K	375lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP20	-20°C to +40°C	5 years
STR004	24V	4.8W/m	3000 K	395lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP20	-20°C to +40°C	5 years
STR006	24V	4.8W/m	4000 K	415lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP20	-20°C to +40°C	5 years
STR008	24V	4.8W/m	6000 K	395lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP20	-20°C to +40°C	5 years
STR012	24V	4.8W/m	2700 K	368lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP65 (NA)	-20°C to +40°C	5 years
STR014	24V	4.8W/m	3000 K	387lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP65 (NA)	-20°C to +40°C	5 years
STR016	24V	4.8W/m	4000 K	407lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP65 (NA)	-20°C to +40°C	5 years
STR018	24V	4.8W/m	6000 K	388lm/m	Ra>90	60leds/m	8mm	120°		100mm	IP65 (NA)	-20°C to +40°C	5 years

LUMINOUS INTENSITY DISTRIBUTION CURVE (12V):



· Photometric of 1M strip

ILLUMINANCE AT A DISTANCE (12V):



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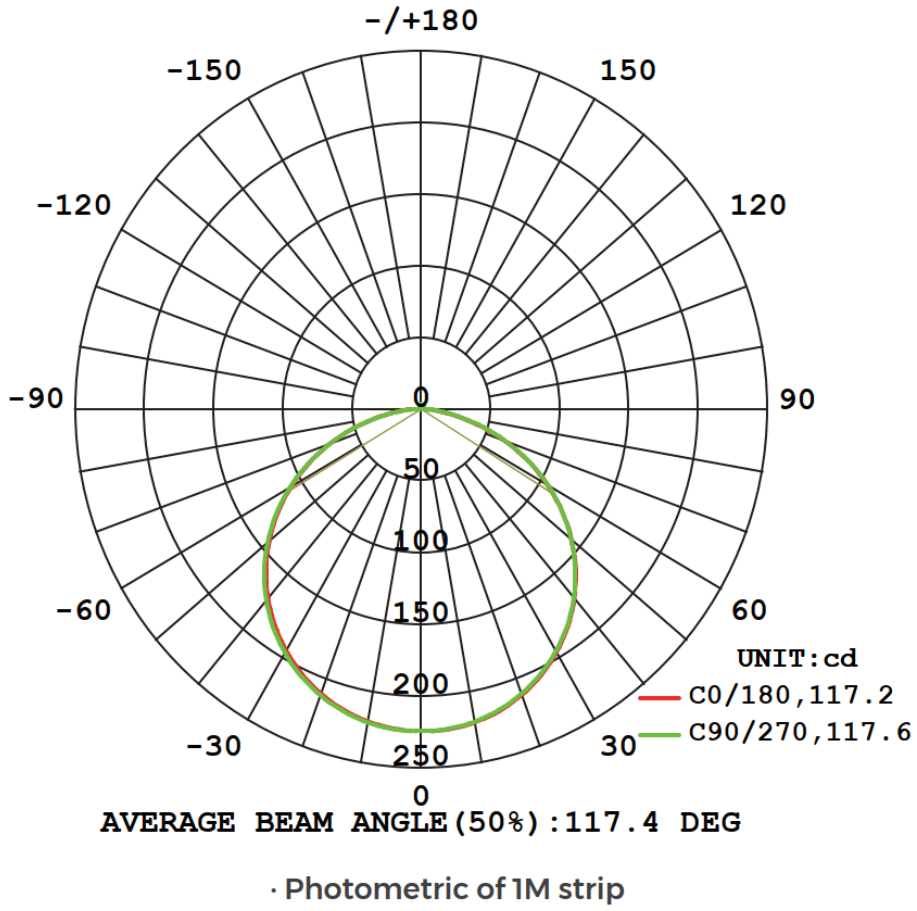
LUMINOUS INTENSITY DISTRIBUTION CURVE (24V):



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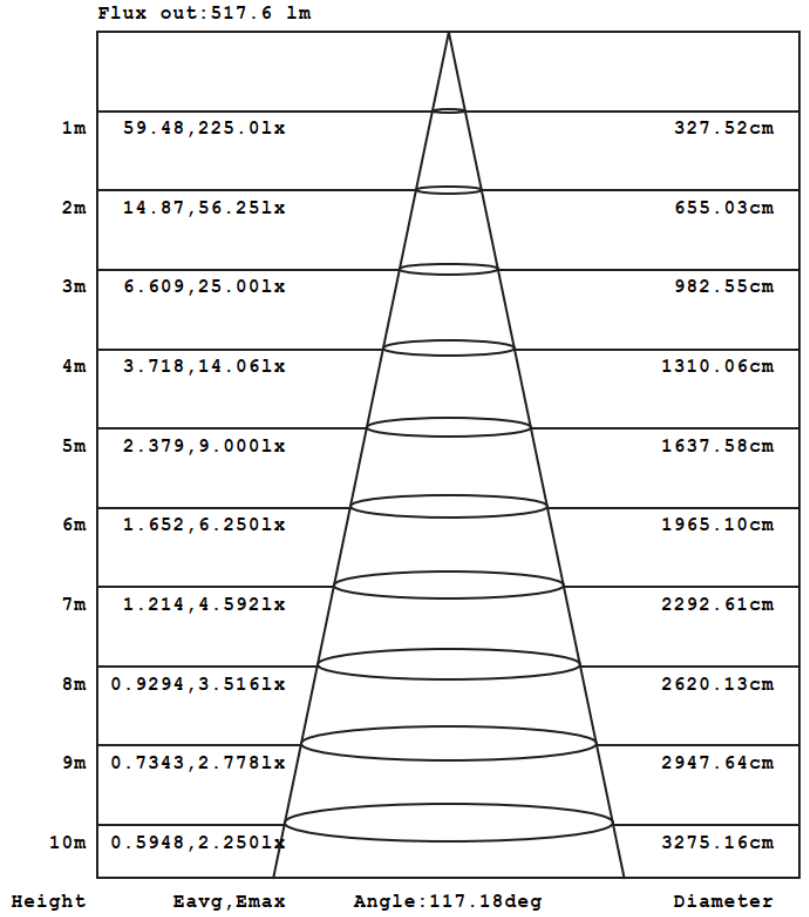
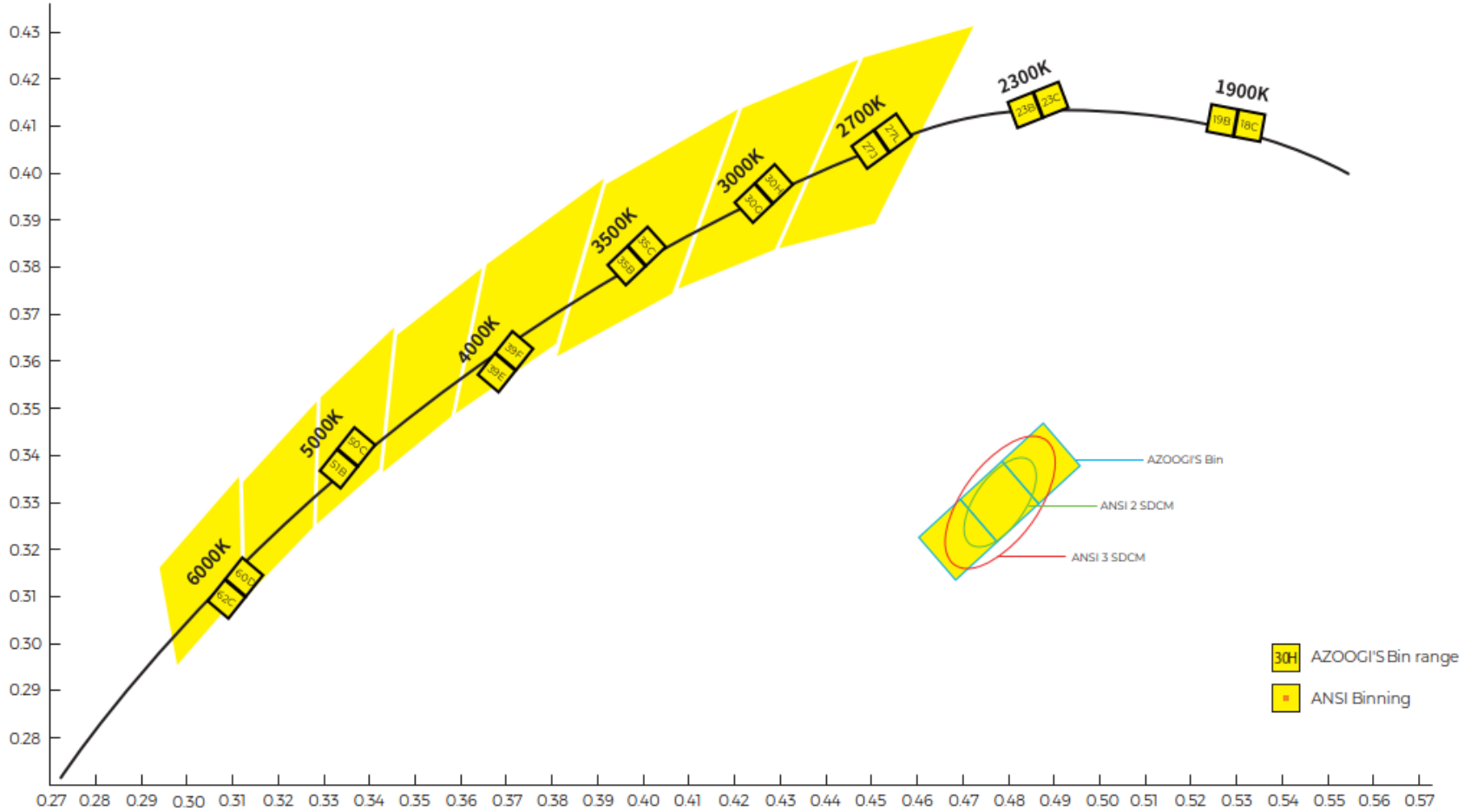
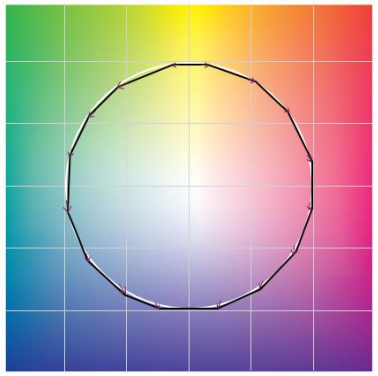


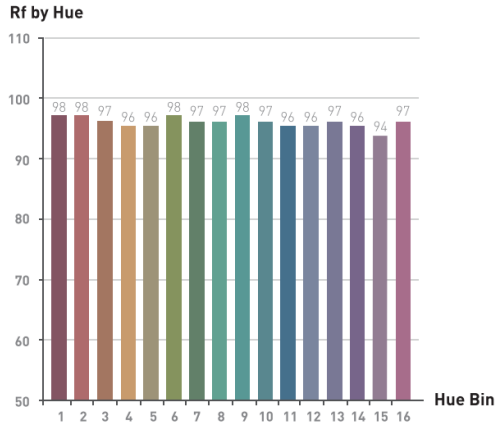
MACADAM ELLIPSES:

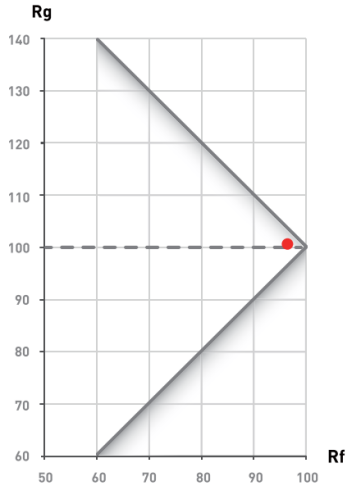


Complied with international ANSI standards, Azoogi divides every CCT into 2 or 3 bins, at 2-step McAdam ellipse at least, to ensure customers get the same colour of light even for different orders.

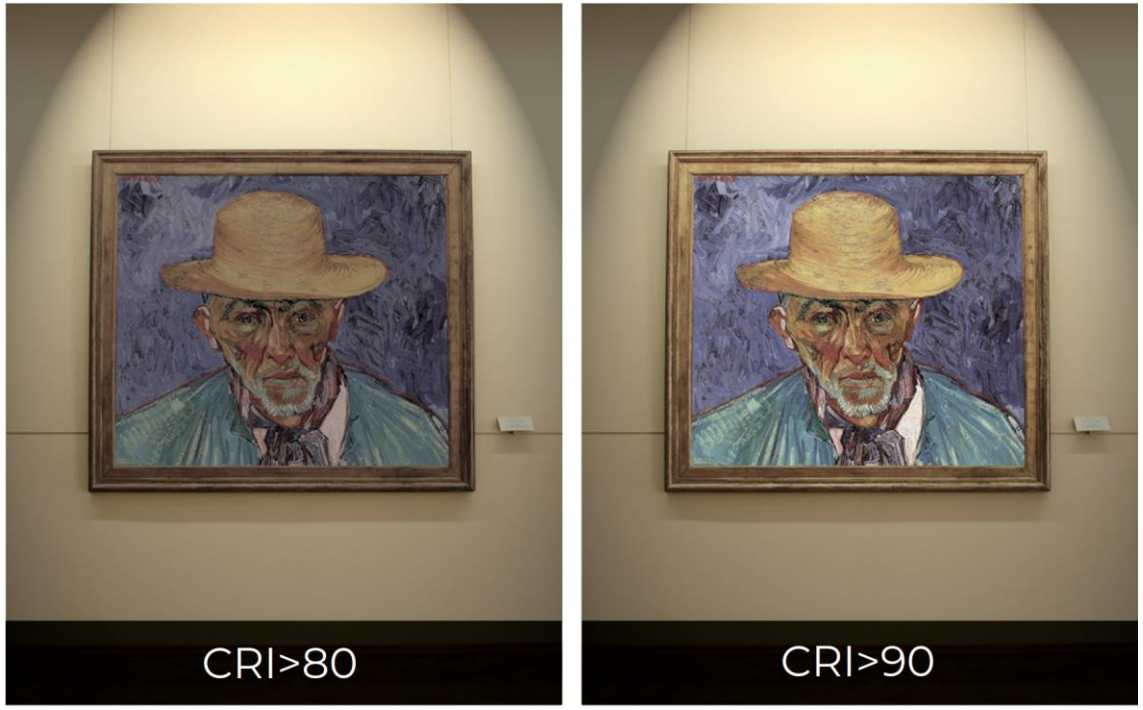
TEST OF FULL SPECTRUM (FS) LED:







COLOR RENDITION (CRI):



All our LED strips are manufactured with a **CRI>90**, ensuring superior color rendering for vibrant, true-to-life illumination. This high CRI rating enhances the richness and accuracy of colors, making them ideal for applications where color precision is essential, such as artwork displays, retail spaces, and interior designs. With our CRI>90 LED strips, you can bring out the finest details and create visually stunning environments.

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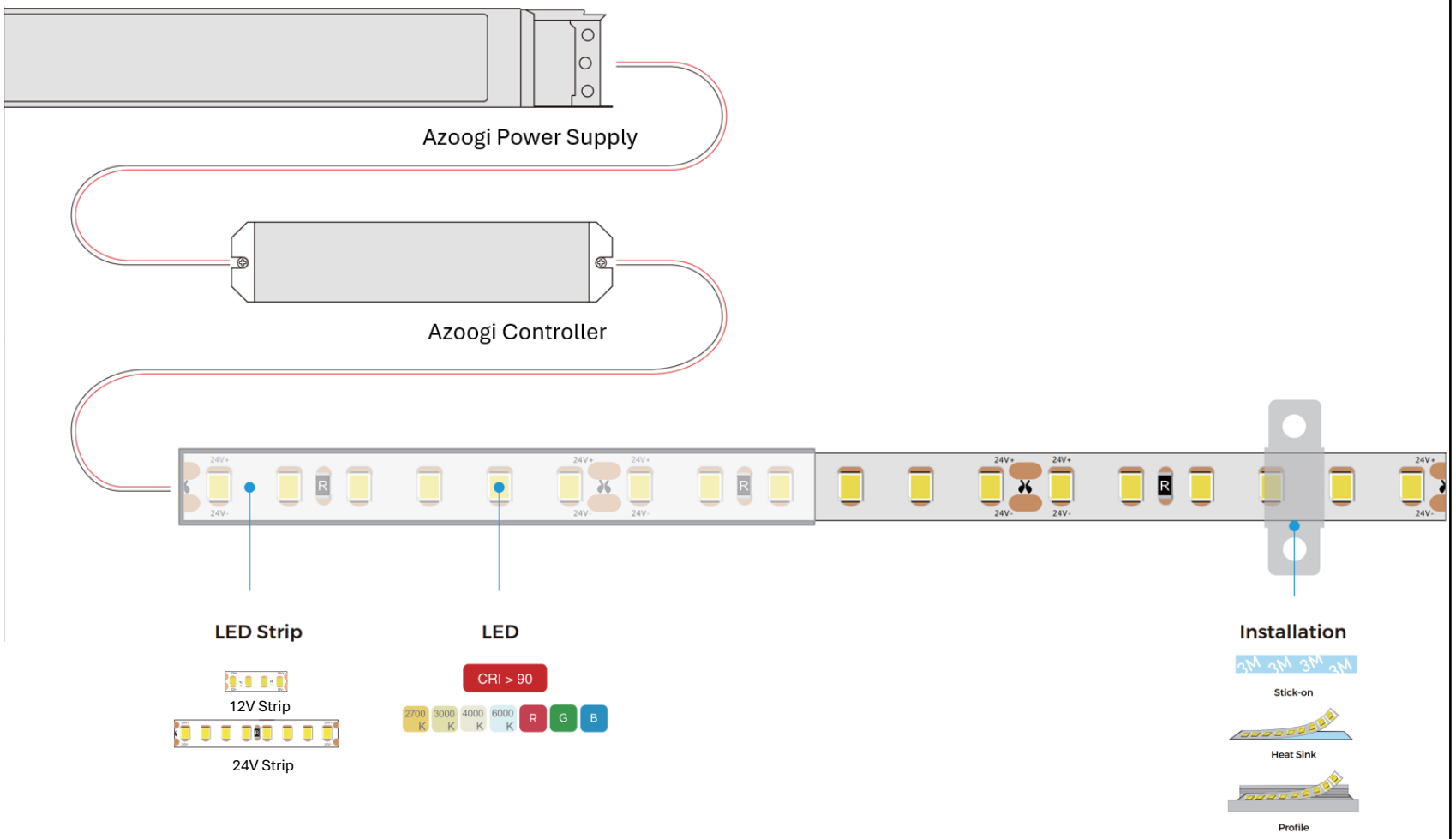
INSTALLATION:



Step 1: Preparing for Installation

- **Check the Voltage:** Confirm whether your LED strip is 12V or 24V and ensure the power supply matches the strip's requirements.
- **Plan the Layout:** Measure the area and determine where the LED strip will be installed. Ensure the strip length matches your design.
- **Ensure Clean Surfaces:** Clean the installation surface to remove dust or grease for optimal adhesion.

Step 2: Power Supply and Controller Connection

- **Connect the Power Supply:** Plug the Azoogi power supply into the mains and connect the output terminals to the LED strip or controller.
- **Add Controller (Optional):** If using a controller for dimming or color control, connect it between the power supply and the LED strip and follow the wiring diagram for proper connections.

Step 3: Installing the LED Strip

- **Cut to Size (if necessary):**Use marked cutting increments (50mm or 100mm) to trim the strip to your required length and ensure the cut does not damage the circuitry.
- **Adhere the Strip:** Peel off the backing from the 3M adhesive tape on the strip and carefully stick the strip to the clean surface, ensuring it is aligned properly.
- **Use Profiles or Heat Sinks (Recommended for longevity):** Place the LED strip onto the heat sink or inside the aluminum profile to enhance heat dissipation and provide a professional finish.

Step 4: Connecting the LED Strip

- **Connect to Power:** Attach the LED strip terminals to the output from the power supply or controller, ensuring polarity (+/-) is correct.
- **Secure Connections:** Use proper connectors to avoid loose wiring and test the connection by powering on the strip.

Step 5: Testing and Adjustments

- **Power On:** Turn on the power supply and test the LED strip for proper illumination.
- **Adjust Settings (if applicable):** Use the controller to adjust brightness or color as needed.

Important Installation Notes:

- Do not install the strip on rough or uneven surfaces without proper profiles.
- Avoid bending the strip at sharp angles to prevent damage to the LEDs or circuits.
- Ensure adequate ventilation or use a heat sink for installations in enclosed spaces to avoid overheating.
- For outdoor or damp areas, ensure IP65-rated strips are used and connections are waterproofed.

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