

# ADURO X2

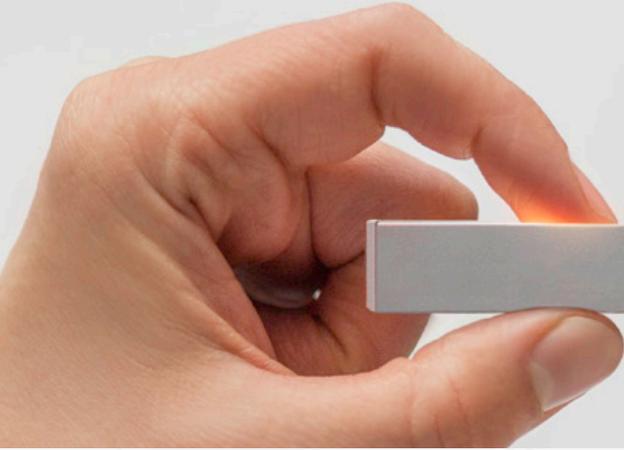
LED STRIP STR-ADURO X2





## ADVANCED LONGEVITY

Aduro X2 provides exceptional longevity with astonishing lumen maintenance and robust componentry. Maintaining 90% of the initial lumen output at over 145,000 hours, you'll never have to choose between performance and longevity again.



## BRILLIANCE OF COLOUR

Designed to impress and complete with a colour rendering index of over 92, Aduro X2 brilliant light brings out the best in any space and creates an enjoyable, vibrant and inviting ambience.

LOW CRI

HIGH CRI



L90

### LONG OPERATING LIFE

Coolon products use the world's most reputable LED manufacturers and the latest available standards to adequately report lumen maintenance. We strive to drive LEDs under their nominal current and use state-of-the-art heat dissipation methods, leading to durable electronics.



### VARIOUS CCT & COLOUR BINNING CONSISTENCY

All products are offered in various colour temperatures, and manufactured using tighter bins, ensuring excellent consistency and uniformity.

5 YEARS

### 5 YEARS WARRANTY

Coolon luminaires are covered by a solid comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## TECHNICAL SPECIFICATIONS

|  | 11W VERSION  | 23W VERSION                  |                                  |
|--|--|------------------------------|----------------------------------|
| Product Code   | STR-ADURO X2   |                              |                                  |
| Description  | Aduro X2 Beam Control LED Strip                            |                              |                                  |
| Segment Length (S)   | 240mm  |                              |                                  |
| Segment Width  | 10.50mm  |                              |                                  |
| LED Pitch  | 34.28mm  |                              |                                  |
| LEDs Per Segment   | 7  |                              |                                  |
| Operating Voltage  | 24VDC  |                              |                                  |
| Typical Power Consumption per Segment                        | 2.5W per 240mm Segment                                     | 5.3W per 240mm Segment       |                                  |
| Typical Power Consumption per Metre                          | 11W per metre  | 23W per metre                |                                  |
| Typical Current  | 115mA per 240mm Segment                                    | 230mA per 240mm Segment      |                                  |
| Colour Rendering Index (CRI)                                 | 90+  |                              |                                  |
| Dimmable   | Through CTR-DALILOGIC or CTR-DIMMERLOGIC (sold separately) |                              |                                  |
| Effective Beam Angle   | Varies with optics   |                              |                                  |
| External Heatsink Required                                   | No   |                              |                                  |
| Ambient Operating Temp                                       | Ta -10°C to 50°C   |                              |                                  |
| Thermal Operating  | Yes (Active)   |                              |                                  |
| Reported Lumen Maintenance TM21-11 (@ Ts = 85°C, If = 700mA) | L70 (17K) > 103,000 hours                                  | L90 (17K) > 103,000 hours    |                                  |
|  | Aduro X2 max. operating values (@ Ts = 40°C, If = 230mA)   |                              |                                  |
| IP Rating  | IP40   |                              |                                  |
| Max Continuous Connection Length                             | Please refer to installation limitations (Page 09)         |                              |                                  |
| Luminous Flux per Metre (lm/M)                               | 2700K<br>3000K   | 610 lm/Metre<br>700 lm/Metre | 1,250 lm/Metre<br>1,400 lm/Metre |

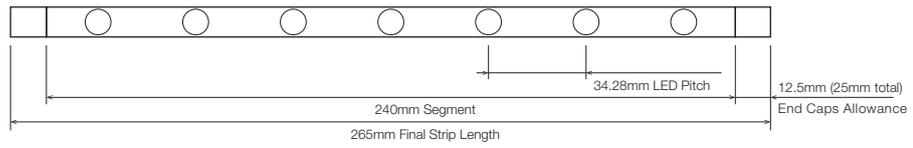
▪ Specific lumen output and IES files available on request

## LUMEN OUTPUT

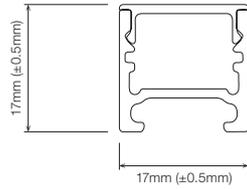
| POWER              | CCT   | 30D          | 50D          | 80D          | O4018D       | O10040D      | A7030D22     |
|--------------------|-------|--------------|--------------|--------------|--------------|--------------|--------------|
| 11W<br>11W / Metre | 2700K | 697 lm / m   | 561 lm / m   | 578 lm / m   | 711 lm / m   | 601 lm / m   | 554 lm / m   |
|                    | 3000K | 768 lm / m   | 623 lm / m   | 642 lm / m   | 790 lm / m   | 667 lm / m   | 609 lm / m   |
|                    | 4000K | 854 lm / m   | 640 lm / m   | 659 lm / m   | 810 lm / m   | 685 lm / m   | 631 lm / m   |
| 23W<br>23W / Metre | 2700K | 1,396 lm / m | 1,178 lm / m | 1,213 lm / m | 1,492 lm / m | 1,261 lm / m | 1,163 lm / m |
|                    | 3000K | 1,535 lm / m | 1,309 lm / m | 1,348 lm / m | 1,658 lm / m | 1,401 lm / m | 1,279 lm / m |
|                    | 4000K | 1,623 lm / m | 1,343 lm / m | 1,383 lm / m | 1,701 lm / m | 1,438 lm / m | 1,326 lm / m |

■ DIMENSIONS

For final strip lengths please refer to the "Product Length" table.



**P17 PROFILE**



**AVAILABLE IN**

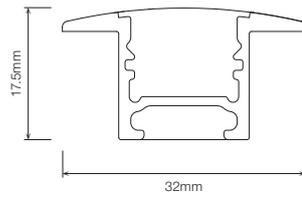
Diffused



**MOUNTING OPTIONS**

- **MC-XCLIP**  
Flat Mount X-Clip
- **MC-STR-RBCLIP**  
Rebate Mounting Clip
- **MC-STR-SMCLIP**  
Pivot Surface Mounting Clip
- **MBR-RB-TA-P17-BLK**  
Rotating Bracket,  
TYPE A Rotating Clip
- **MBR-RB-TB-P17-BLK**  
Rotating Bracket,  
TYPE B Rotating Clip

**PR17 RECESSED PROFILE**



**AVAILABLE IN**

Diffused



**MOUNTING OPTIONS**

- **MC-XCLIP**  
Flat Mount X-Clip
- **MC-STR-RBCLIP**  
Rebate Mounting Clip
- **MC-STR-PR1732**  
Spring Mounting Clip



Click on the download icon to view more information regarding mounting and rebate suggestions.



▪ PRODUCT LENGTH WITH P17

| FULL SEGMENTS | EXACT STRIP LENGTH | P17 END CAP ALLOWANCE | P17 FINAL LENGTH |
|---------------|--------------------|-----------------------|------------------|
| S1            | 240mm              | add 25mm              | 265mm            |
| S2            | 480mm              | add 25mm              | 505mm            |
| S3            | 720mm              | add 25mm              | 745mm            |
| S4            | 960mm              | add 25mm              | 985mm            |
| S5            | 1,200mm            | add 25mm              | 1,225mm          |
| S6            | 1,440mm            | add 25mm              | 1,465mm          |
| S7            | 1,680mm            | add 25mm              | 1,705mm          |
| S8            | 1,920mm            | add 25mm              | 1,945mm *        |
| S9            | 2,160mm            | add 25mm              | 2,185mm *        |
| S10           | 2,400mm            | add 25mm              | 2,425mm *        |
| S11           | 2,640mm            | add 25mm              | 2,665mm *        |
| S12           | 2,880mm            | add 25mm              | 2,905mm *        |
| S13           | 3,120mm            | add 25mm              | 3,145mm *        |
| S14           | 3,360mm            | add 25mm              | 3,385mm *        |

■ Confirm interstate courier compliance

▪ Custom length subject to availability

▪ PRODUCT LENGTH WITH PR17

| FULL SEGMENTS | EXACT STRIP LENGTH | PR17 END CAP ALLOWANCE | PR17 FINAL LENGTH |
|---------------|--------------------|------------------------|-------------------|
| RS1           | 240mm              | add 40mm               | 280mm             |
| RS2           | 480mm              | add 40mm               | 520mm             |
| RS3           | 720mm              | add 40mm               | 760mm             |
| RS4           | 960mm              | add 40mm               | 1,000mm           |
| RS5           | 1,200mm            | add 40mm               | 1,240mm           |
| RS6           | 1,440mm            | add 40mm               | 1,480mm           |
| RS7           | 1,680mm            | add 40mm               | 1,720mm           |
| RS8           | 1,920mm            | add 40mm               | 1,960mm           |
| RS9           | 2,160mm            | add 40mm               | 2,200mm           |
| RS10          | 2,400mm            | add 40mm               | 2,440mm           |
| RS11          | 2,640mm            | add 40mm               | 2,680mm           |

■ Confirm interstate courier compliance

**⚠ WARNING**

Do not bend LED strip when removing from mounting clips.

Gently twist LED Strip to remove from mounting clips.

**⚠ WARNING**

**PLEASE HANDLE LONG LED STRIPS WITH CARE.**

LED Strips must not be bent.

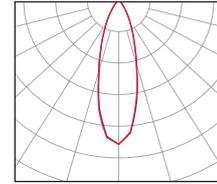
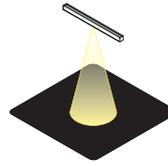
When handling LED Strips, please ensure that they are kept straight.

■ POLAR DISTRIBUTION

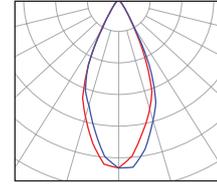
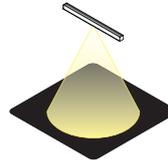
OPTIC

POLAR DISTRIBUTION

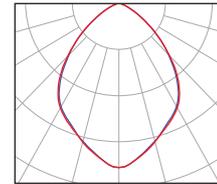
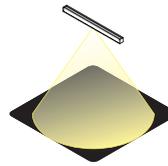
30D  
Medium Beam  
30° Beam Angle



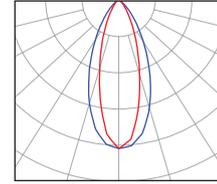
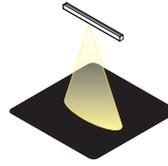
50D  
Wide Beam  
50° Beam Angle



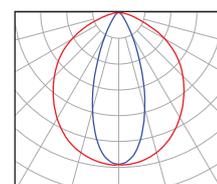
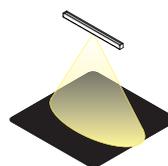
80D  
Wide Beam  
80° Beam Angle



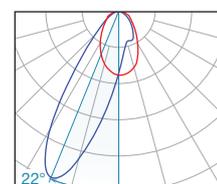
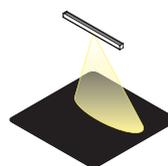
O4018D  
Oval Beam  
Oval 40° x 18° Beam



O10040D  
Oval Beam  
Oval 100° x 40° Beam Angle



A7030D  
Asymmetric Beam  
Asymmetric 70° x 30° Beam Angle



■ PROFILE /  
DIFFUSER

**P17D2** · P17 Profile Diffused



**PR17D2** · PR17 Profile Recessed Diffused



■ PROFILE  
COLOUR

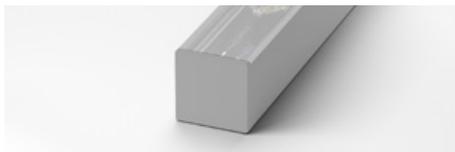
**BLK** · Black (Standard)



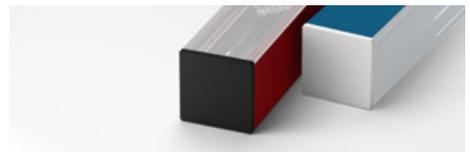
**WHT** · White



**GRY** · Grey



**CST** · Custom Colour <sup>1</sup>



<sup>1</sup> Custom colours available on request.

WIRING CONFIGURATION

| CONNECTOR TYPE                             | DRAWING  | MALE  | FEMALE  |
|--|--|---|---|
| WR2.1OS<br>Wire 2+1 Core One Side          |  |  |   |
| WR2.1BS<br>Wire 2+1 Core Both Sides        |  |  |  |
| OC2.1MO<br>Connector 2+1 pin Male Only     |  |  |   |
| OC2.1MF<br>Connector 2+1 pin Male + Female |  |  |  |
| SMPLC.1<br>Sample Type Connector 2.5mm     |  |  |   |

- For detailed information on Outdoor IP67 connector please contact Coolon.
- Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

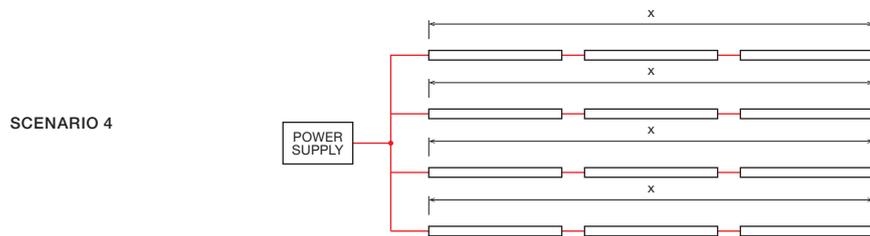
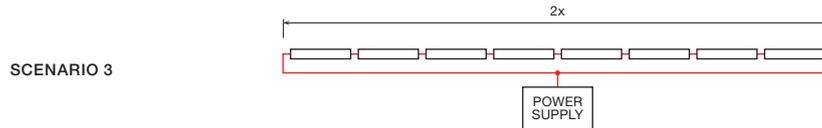
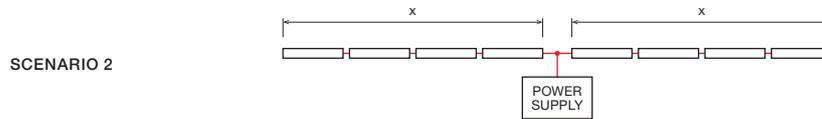
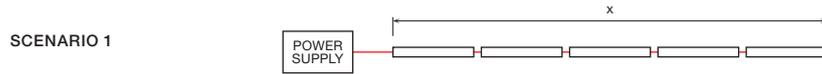
| WIRING COLOUR CODE |             |
|--------------------|-------------|
| Red                | + VDC       |
| Black              | GND         |
| White              | PWM Control |

IP RATING

**IP40**

Protected against solid objects greater than 1mm. No protection against liquids.

■ INSTALLATION LIMITS



11W VERSION

| MAX. CONTINUOUS CONNECTION LENGTH (X) | CONNECTOR TYPE  |
|---------------------------------------|---|
| 12,200 mm                             | With 2+1 core (WR2.1OS / WR2.1BS)                     |
| 5,500 mm                              | With 2+1 pin connectors (OC2.1MO / OC2.1MF / SMPLC.1) |

■ Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

23W VERSION

| MAX. CONTINUOUS CONNECTION LENGTH (X) | CONNECTOR TYPE  |
|---------------------------------------|---|
| 5,800 mm                              | With 2+1 core (WR2.1OS / WR2.1BS)                     |
| 2,500 mm                              | With 2+1 pin connectors (OC2.1MO / OC2.1MF / SMPLC.1) |

■ Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

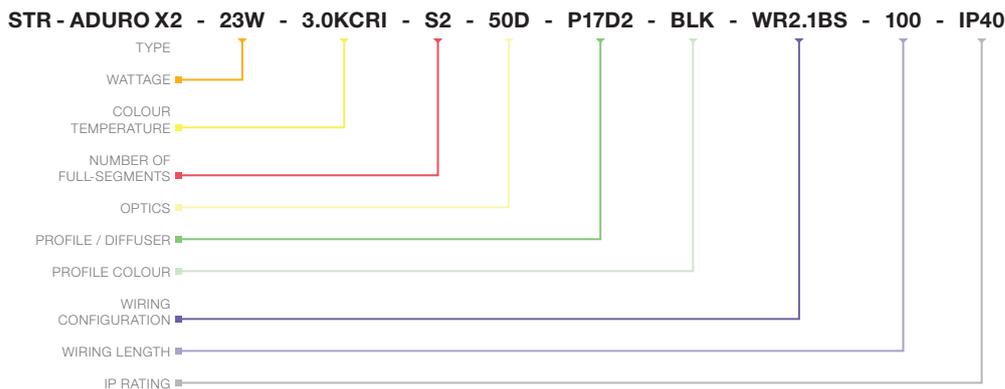
**⚠ WARNING**

Avoid connecting multiple power supplies into a single circuit, unless they are specifically designed to do so.

✗

✗

ORDERING EXAMPLE



WATTAGE

|     |               |
|-----|---------------|
| 11W | 11W per metre |
| 23W | 23W per metre |

COLOUR TEMPERATURE <sup>1</sup> PAGE 04

|         |              |
|---------|--------------|
| 2.7KCRI | 2700K CRI 90 |
| 3.0KCRI | 3000K CRI 90 |
| 3.5KCRI | 3500K CRI 90 |
| 4.0KCRI | 4000K CRI 90 |

PRODUCT LENGTH PAGE 06

|             |         |
|-------------|---------|
| <b>P17</b>  |         |
| S1          | 265mm   |
| S2          | 505mm   |
| S3          | 745mm   |
| S4          | 985mm   |
| S5          | 1,225mm |
| S6          | 1,465mm |
| S7          | 1,705mm |
| S8          | 1,945mm |
| S9          | 2,185mm |
| S10         | 2,425mm |
| S11         | 2,665mm |
| S12         | 2,905mm |
| S13         | 3,145mm |
| S14         | 3,385mm |
| <b>PR17</b> |         |
| RS1         | 280mm   |
| RS2         | 520mm   |
| RS3         | 760mm   |
| RS4         | 1,000mm |
| RS5         | 1,240mm |
| RS6         | 1,480mm |
| RS7         | 1,720mm |
| RS8         | 1,960mm |
| RS9         | 2,200mm |
| RS10        | 2,440mm |
| RS11        | 2,680mm |

OPTICS PAGE 07

|         |                           |
|---------|---------------------------|
| 30D     | 30° Beam                  |
| 50D     | 50° Beam                  |
| 80D     | 80° Beam                  |
| O4018D  | Oval 40° x 18° Beam       |
| O10040D | Oval 100° x 40° Beam      |
| A7030D  | Asymmetric 70° x 30° Beam |

PROFILE / DIFFUSER PAGE 08

|        |                                |
|--------|--------------------------------|
| P17D2  | P17 Profile Diffused           |
| PR17D2 | PR17 Recessed Profile Diffused |

PROFILE COLOUR <sup>2</sup> PAGE 08

|     |                  |
|-----|------------------|
| BLK | Black (Standard) |
| WHT | White            |
| GRY | Grey             |
| CST | Custom Colour    |

WIRING CONFIGURATION PAGE 09

|         |                                 |
|---------|---------------------------------|
| WR2.1OS | Wire 2+1 Core One Side          |
| WR2.1BS | Wire 2+1 Core Both Sides        |
| OC2.1MO | Connector 2+1 pin Male Only     |
| OC2.1MF | Connector 2+1 pin Male + Female |
| SMPLC.1 | Sample Type Connector 2.5mm     |

WIRING LENGTH PAGE 09

|      |         |
|------|---------|
| 100  | 100mm   |
| 250  | 250mm   |
| 500  | 500mm   |
| 1000 | 1,000mm |

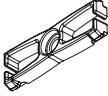
IP RATING PAGE 09

|      |            |
|------|------------|
| IP40 | Indoor Use |
|------|------------|

<sup>1</sup> Other CCT subject to availability.

<sup>2</sup> Custom colours available on request.

## ■ ACCESSORIES

|   | PRODUCT CODE                 | DESCRIPTION  |
|---|------------------------------|--|
| <b>MOUNTING CLIP <sup>1</sup></b>   |                              |  |
|    | MC-XCLIP                     | Flat Mount X-Clip  |
|   | MC-STR-RBCLIP                | Rebate Mounting Clip   |
|   | MC-STR-SMCLIP                | Pivot Surface Mounting Clip  |
|   | MBR-RB-TA-P17-BLK            | Rotating Bracket, TYPE A Rotating Clip - Black   |
|   | MBR-RB-TB-P17-BLK            | Rotating Bracket, TYPE B Rotating Clip - Black   |
|   | MC-STR-PR1732                | Spring Mounting Clip for PR17 Recessed Profile   |
| <sup>1</sup> Recommended spacing for Mounting Clips is maximum 500mm.               |                              |  |
| <b>CONTROLLER</b>   |                              |  |
|    | CTR-A2PWM 0-10V              | Analogue to PWM converter for 0 – 10V dimming signal                                       |
|   | CTR-DIMMERLOGIC              | Coolon Universal Wall Dimmer with 0 – 10V and PWM Logic Output                             |
|   | CTR-DALILOGIC                | Indoor DALI To 1 Channel PWM Brightness Controller   |
|   | CTR-DALILOGIC-IP             | Outdoor DALI To 1 Channel PWM Brightness Controller  |
| <b>POWER SUPPLY</b>   |                              |  |
|    | PWR-HLG-60H-24AU             | Mean Well Power Supply HLG 60W 24V IP67  |
|   | PWR-HLG-150H-24AU            | Mean Well Power Supply HLG 150W 24V IP67   |
|   | PWR-HLG-240H-24AU            | Mean Well Power Supply HLG 240W 24V IP67   |
|   | PWR-HLG-320H-24AU            | Mean Well Power Supply HLG 320W 24V IP67   |
| <b>CABLE EXTENSIONS</b>   |                              |  |
|  | CBL-STR-WR2.1-DC-JL-IP40-3M  | 3m Cable Extension for Strips<br>Red, Black and White, 0.75mm <sup>2</sup> wire            |
|   | CBL-STR-WR2.1-DC-JL-IP40-5M  | 5m Cable Extension for Strips<br>Red, Black and White, 0.75mm <sup>2</sup> wire            |
|   | CBL-STR-OC2.1FO-DC-L-IP65-3M | 3m Connector Extension for Strips<br>1x Red, 1x Black, 1x White, 0.75mm <sup>2</sup> wires |
|   | CBL-STR-OC2.1FO-DC-L-IP65-5M | 5m Connector Extension for Strips<br>1x Red, 1x Black, 1x White, 0.75mm <sup>2</sup> wires |