

# ADURO

LED STRIP STR-ADURO





The Aduro LED strip utilizes the latest and most efficient LEDs available today and is offered in a broad range of colours temperatures.

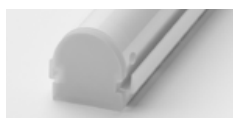
Each LED segment (240mm) features 6 High Power LEDs. The Aduro offers a very high lumen package as well as gradual / variable dimming from 100% – 3%.

#### POWER

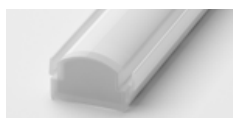
#### LUMINOUS FLUX

##### 11W

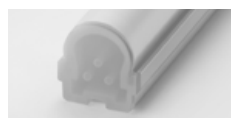
10.8W / metre



**SD** • 750 lm / metre



**LD** • 850 lm / metre



**RD** • 842 lm / metre



**P17D** • 715 lm / metre

#### COLOUR TEMPERATURE

2700K

3000K

3500K

4000K

# HIGH PERFORMANCE

## LOW WATTAGE

The Aduro is designed to provide the highest lumen output at the lowest wattage.

The Aduro offers the highest lumen package out of Coolon's range of LED strips.

## HIGH CRI

The Aduro utilizes high CRI (92) LEDs, boosting the colour and vibrancy of the illuminated object.

LOW CRI

HIGH CRI

L90

### LONG OPERATING LIFE

Coolon products use world's most reputable LED manufacturers and the latest available standard to adequately report luminaire 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

Product is offered in various Colour Temperatures using tighter bins.

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

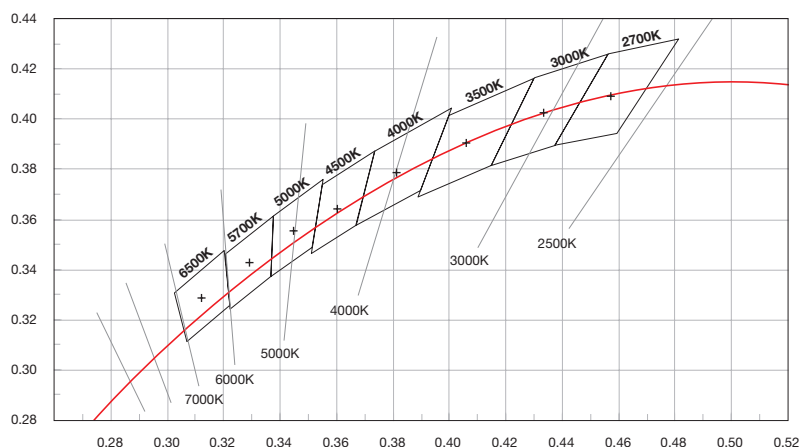
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## TECHNICAL SPECIFICATIONS

|  |  |              |
|--|--|--------------|
| Product Code   | STR-ADURO  |              |
| Description  | Aduro  |              |
| Segment Length (S)   | 240mm  |              |
| Segment Width  | 10.50mm  |              |
| LED Pitch  | 40.00mm  |              |
| LEDs Per Segment   | 6  |              |
| Operating Voltage  | 24VDC  |              |
| Typical Power Consumption per Segment                        | 2.6W per 240mm Segment   |              |
| Typical Power Consumption per Metre                          | 10.8W per metre  |              |
| Typical Current  | 108mA per 240mm Segment  |              |
| Colour Rendering Index (CRI)                                 | 90+  |              |
| Dimmable   | Through CTR-A2PWM 0-10V, CTR-DIMMERLOGIC, CTR-DALI-LOGIC or CTR-DALILOGIC-IP (sold separately) |              |
| Effective Beam Angle   | 110°   |              |
| 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<br>L90 (17K) > 103,000 hours   |              |
|  | Aduro max. operating values (@ Ts = 40°C, If = 108mA)  |              |
| IP Rating  | IP40 (Standard), up to IP68  |              |
| Max Continuous Connection Length                             | Please refer to installation limitations   |              |
| Luminous Flux per Metre (lm/M)                               | SD   | 750 lm/Metre |
|  | LD   | 850 lm/Metre |
|  | RD   | 842 lm/Metre |
|  | P17D   | 715 lm/Metre |

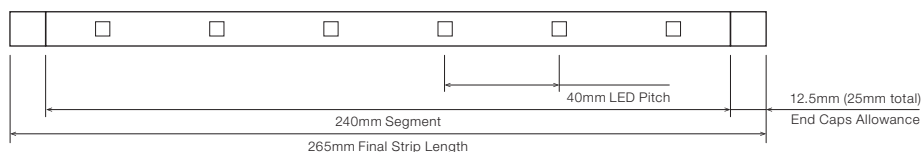
- Specified values measured at 2700K
- Specific lumen output and IES files available on request

## COLOUR BINNING

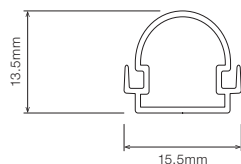


## DIMENSIONS

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



### STANDARD PROFILE



### AVAILABLE IN

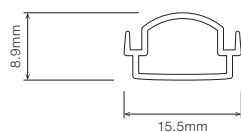
Diffused



### MOUNTING OPTIONS

- **MC-STR-1513**  
Stainless Steel Mounting Clips

### LOW PROFILE



### AVAILABLE IN

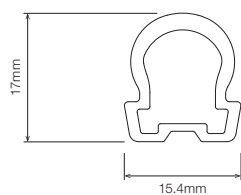
Diffused



### MOUNTING OPTIONS

- **MC-STR-1513**  
Stainless Steel Mounting Clips

### REINFORCED PROFILE



### AVAILABLE IN

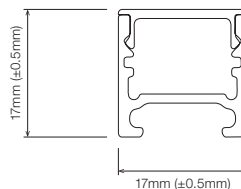
Diffused



### MOUNTING OPTIONS

- **MC-STR-RD**  
Stainless Steel Mounting Clips

### P17 PROFILE



### AVAILABLE IN

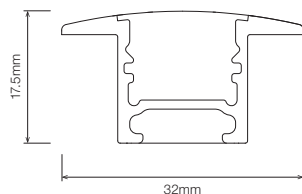
Diffused



### MOUNTING OPTIONS

- **MC-CCLIP**  
Stainless Steel C-Clip
- **MC-XCLIP**  
Flat Mount X-Clip
- **MC-STR-P17R**  
Rotating Clip Mount

### PR17 RECESSED PROFILE



### AVAILABLE IN

Diffused



### MOUNTING OPTIONS

- **MC-CCLIP**  
Stainless Steel C-Clip
- **MC-XCLIP**  
Flat Mount X-Clip
- **MC-STR-PR17**  
Spring Mounting Clip



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

## ■ PRODUCT LENGTH WITH SD/LD/RD/P17D

| FULL SEGMENTS | EXACT STRIP LENGTH | END CAP ALLOWANCE | 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

## ■ PRODUCT LENGTH WITH PR17

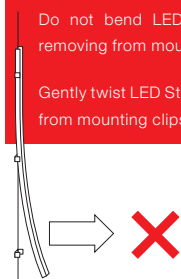
| FULL SEGMENTS | EXACT STRIP LENGTH | PR17 END CAP ALLOWANCE | PR17 FINAL LENGTH |
|---------------|--------------------|------------------------|-------------------|
| RS1           | 240mm              | add 40mm               | 280mm             |
| RS2           | 480mm              | add 40mm               | 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           |
| RS12          | 2,880mm            | add 40mm               | 2,920mm           |

Confirm interstate courier compliance

### ⚠ WARNING

Do not bend LED strip when removing from mounting clips.

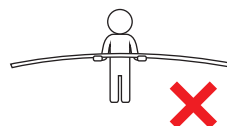
Gently twist LED Strip to remove from mounting clips.



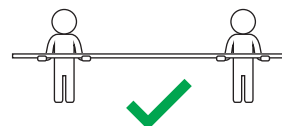
### ⚠ WARNING

PLEASE HANDLE LONG LED STRIPS WITH CARE.

LED Strips must not be bent.



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

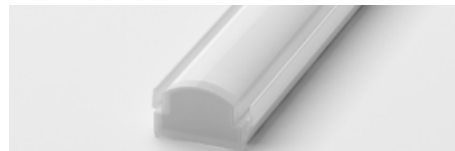


## ■ PROFILE / DIFFUSER

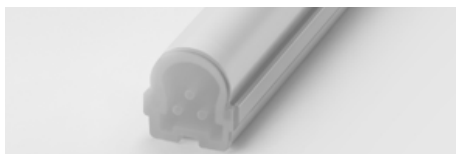
**SD** • Standard Profile Diffused



**LD** • Low Profile Diffused



**RD** • Reinforced Profile Diffused



**P17D** • P17 Profile Diffused



**P17T** • P17 Profile Diffused (IP65 Outdoor)



**PR17D** • PR17 Profile Recessed Diffused



## ■ PROFILE COLOUR

Profile colour applicable to P17 and PR17 only.

**BLK** • Black (Standard)



**WHT** • White



**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>Outdoor Connector 2+1 pin Male Only      |         |      |        |
| OC2.1MF<br>Outdoor Connector 2+1 pin Male + Female  |         |      |        |
| SMPLC.1<br>Sample Type Connector 2.5mm              |         |      |        |
| TEF2.1OS<br>Teflon Wires 2+1 Core One Side for IP68 |         |      |        |

- TEF2.1OS (Teflon Wires 2+1 Core One Side for IP68) loom length 2,000mm.
- 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              | Dimming |

## ■ IP RATING

### IP40

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

- SD Profile
- LD Profile
- RD Profile
- P17D Profile
- PR17D Profile

### IP65

Fully protected against dust. Protected against water jets from all directions

- SD Profile <sup>1</sup>
- LD Profile <sup>1</sup>
- RD Profile <sup>1</sup>
- P17T Profile <sup>2</sup>

### IP68

Fully protected against dust. Protected against the effects of prolonged immersion under water.

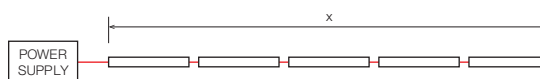
- SD Profile <sup>1</sup>
- LD Profile <sup>1</sup>
- RD Profile <sup>1</sup>

<sup>1</sup> IP65 and IP68 rating is only available for length up to 2,400mm for SD, LD and RD profiles

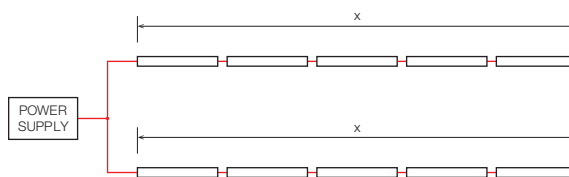
<sup>2</sup> IP65 rating is only available for lengths up to 3,000mm for P17T profile

## ■ INSTALLATION LIMITS

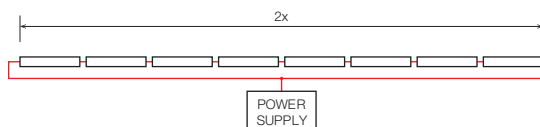
SCENARIO 1



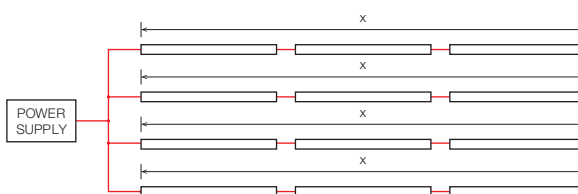
SCENARIO 2



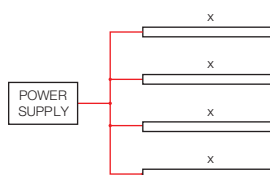
SCENARIO 3



SCENARIO 4

SCENARIO 5 <sup>1</sup>

<sup>1</sup> Scenario 5 is the only wiring option available for IP68.



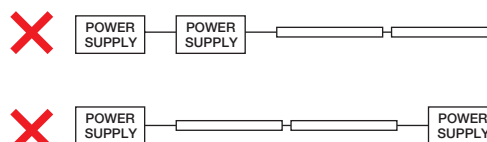
### MAX. CONTINUOUS CONNECTION LENGTH (X) CONNECTOR TYPE

|           |  |
|-----------|--|
| 9,600 mm  | With standard 2+1 core (WR2.10S / WR2.1BS)                   |
| 10,900 mm | With upgraded 4+1 core (WR4.10S / WR4.1BS)                   |
| 5,200 mm  | With upgraded outdoor 2+1 pin connectors (OC2.1MO / OC2.1MF) |
| 8,800 mm  | With upgraded outdoor 4+1 pin connectors (OC4.1MO / OC4.1MF) |

- Extension cables between LED fittings and driver or PSU is based on: LED load, outdoor or indoor applications. Please consult Coolon for details.

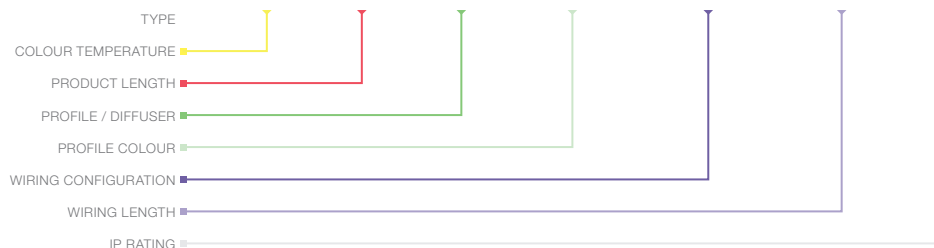
### ⚠ WARNING

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



## ORDERING EXAMPLE

**STR - ADURO - 3.0K - S2 - P17D - BLK - WR2.1BS - 100 - IP40**



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

|      |       |
|------|-------|
| 2.7K | 2700K |
| 3.0K | 3000K |
| 3.5K | 3500K |
| 4.0K | 4000K |

### ■ PRODUCT LENGTH PAGE 06

#### SD, LD, RD, P17D, P17T

|     |         |
|-----|---------|
| 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 | 1,225mm |

#### PR17

|      |         |
|------|---------|
| 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 |
| RS12 | 2,920mm |

### ■ PROFILE / DIFFUSER PAGE 07

|       |                                     |
|-------|-------------------------------------|
| SD    | Standard Profile Diffused           |
| LD    | Low Profile Diffused                |
| RD    | Reinforced Profile Diffused         |
| P17D  | P17 Profile Diffused                |
| P17T  | P17 Profile Diffused (IP65 Outdoor) |
| PR17D | PR17 Recessed Profile Diffused      |

### ■ PROFILE COLOUR <sup>2</sup> PAGE 07

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

### ■ WIRING CONFIGURATION PAGE 08

|          |   |
|----------|---|
| WR2.1OS  | Wire 2+1 Core One Side                  |
| WR2.1BS  | Wire 2+1 Core Both Sides                |
| OC2.1MO  | Outdoor Connector 2+1 pin Male Only     |
| OC2.1MF  | Outdoor Connector 2+1 pin Male + Female |
| SMPLC.1  | Sample Type Connector 2.5mm             |
| TEF2.1OS | Teflon Wires 2+1 Core One Side for IP68 |

### ■ WIRING LENGTH PAGE 09

|       |                          |
|-------|--------------------------|
| 100   | 100mm                    |
| 250   | 250mm                    |
| 500   | 500mm                    |
| 1000  | 1000mm                   |
| 2000  | 2,000mm <sup>3 / 4</sup> |
| 10000 | 10,000mm <sup>3</sup>    |
| 20000 | 20,000mm <sup>3</sup>    |

### ■ IP RATING PAGE 08

|      |                                      |
|------|--------------------------------------|
| IP40 | Indoor Use                           |
| IP65 | Outdoor Use <sup>5 / 6</sup>         |
| IP68 | Prolonged Immersion Use <sup>5</sup> |

<sup>1</sup> Other colour temperatures subject to availability.

<sup>2</sup> Profile colour applicable to P17 and PR17 only. Custom colours available on request.

<sup>3</sup> 2000mm / 10,000mm / 20,000mm options only available with IP68 rated fittings.

<sup>4</sup> IP68 fittings supplied with 2,000mm of TEF2.1OS as standard.

<sup>5</sup> IP65 and IP68 rating is only available for length up to 2,400mm for SD, LD and RD profiles


<sup>6</sup> IP65 rating is only available for lengths up to 3,000mm for P17T profile

## ■ ACCESSORIES


|   | PRODUCT CODE    | DESCRIPTION   |
|---|-----------------|---|
|  | MC-STR-1513     | Stainless Steel Mounting Clips for Standard & Low Profile |
|   | MC-STR-RD       | Stainless Steel Mounting Clips for Reinforced Profile     |
|   | MC-CCLIP        | Stainless Steel C-Clip                                    |
|   | MC-XCLIP        | Flat Mount X-Clip   |
|   | MC-STR-P17R-BLK | Rotating Clip Mount for P17 Profile - Black               |
|   | MC-STR-P17R-WHT | Rotating Clip Mount for P17 Profile - White               |
|   | MC-STR-PR17     | Spring Mounting Clip for PR17 Recessed Profile            |

<sup>1</sup> Recommended spacing between MC-STR-RD and MC-STR-1513 Mounting Clips is maximum 300mm. Recommended spacing for all other Mounting Clips is maximum 500mm.


### CONTROLLER

|   |                  |  |
|---|------------------|--|
|  | 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-DALI-LOGIC   | Indoor DALI Point 1 channel Driver with PWM Logic Output       |
|   | CTR-DALILOGIC-IP | Outdoor DALI Point 1 channel Driver with PWM Logic Output      |

### POWER SUPPLY

|  |                |  |
|--|----------------|--|
|  | PWR-HLG40-24V  | Mean Well Power Supply HLG 40W 24V IP67  |
|  | PWR-HLG60-24V  | Mean Well Power Supply HLG 60W 24V IP67  |
|  | PWR-HLG100-24V | Mean Well Power Supply HLG 100W 24V IP67 |
|  | PWR-HLG150-24V | Mean Well Power Supply HLG 150W 24V IP67 |
|  | PWR-HLG185-24V | Mean Well Power Supply HLG 185W 24V IP67 |
|  | PWR-HLG240-24V | Mean Well Power Supply HLG 240W 24V IP67 |
|  | PWR-HLG320-24V | Mean Well Power Supply HLG 320W 24V IP67 |

### CABLE EXTENSIONS

|   |                          |  |
|---|--------------------------|--|
|  | CBLEXT-STR-WR2.1-IP40-3M | 3m Cable Extension for Strips<br>Red, Black and White, 0.75mm <sup>2</sup> wire            |
|   | CBLEXT-STR-WR2.1-IP40-5M | 5m Cable Extension for Strips<br>Red, Black and White, 0.75mm <sup>2</sup> wire            |
|   | CBLEXT-STR-OC2.1-IP65-3M | 3m Connector Extension for Strips<br>1x Red, 1x Black, 1x White, 0.75mm <sup>2</sup> wires |
|   | CBLEXT-STR-OC2.1-IP65-5M | 5m Connector Extension for Strips<br>1x Red, 1x Black, 1x White, 0.75mm <sup>2</sup> wires |
|   | CBLEXT-STR-WR4.1-IP40-3M | 3m Cable Extension for Strips<br>2x Red, 2x Black, 1x White, 0.75mm <sup>2</sup> wires     |
|   | CBLEXT-STR-WR4.1-IP40-5M | 5m Cable Extension for Strips<br>2x Red, 2x Black, 1x White, 0.75mm <sup>2</sup> wires     |
|   | CBLEXT-STR-OC4.1-IP65-3M | 3m Connector Extension for Strips<br>2x Red, 2x Black, 1x White, 0.75mm <sup>2</sup> wires |
|   | CBLEXT-STR-OC4.1-IP65-5M | 5m Connector Extension for Strips<br>2x Red, 2x Black, 1x White, 0.75mm <sup>2</sup> wires |