



# RATIO C IP

LED STRIP STR-RATIO C IP





Ratio C IP is a compact outdoor strip luminaire with precision optics - available in a range of vibrant, static colours. Ratio C IP provides pure colour without the need for external control, for maximum efficacy and high impact.

Unique encapsulation methods result in a robust outdoor luminaire that is available in two wattages (11W and 23W) and various lengths.

**POWER** **LUMINOUS FLUX**

**11W**  
11W / metre



SC - Varies with colour

**23W**  
23W / metre



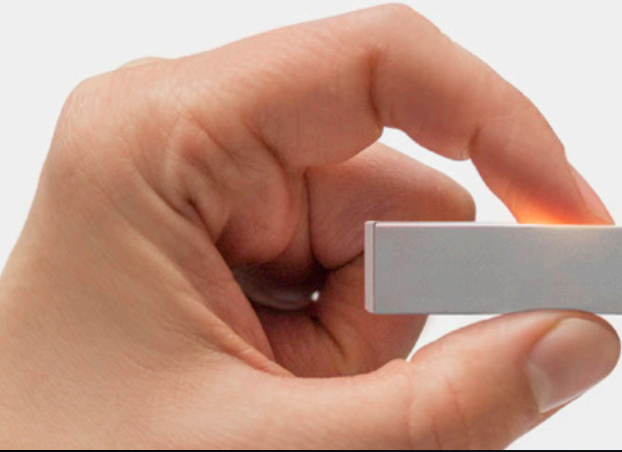
SC - Varies with colour

**COLOURS**



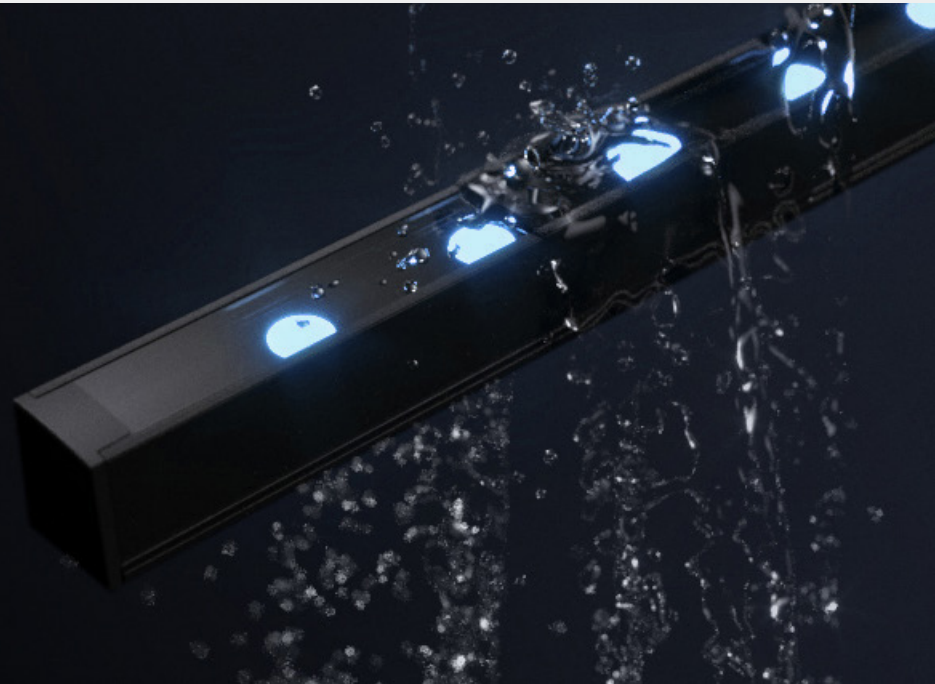
## COMPACT SIZE

Reduced form factor can provide freedom and simplicity to a designer. At only 20x22.5mm, Ratio C IP is the smallest LED strip/profile offered with optical control.



## BRIGHT IDEAS MADE TO LAST

Ratio C IP is offered with IP66 and IK06 as standard, making this luminaire truly compact and robust.



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.

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

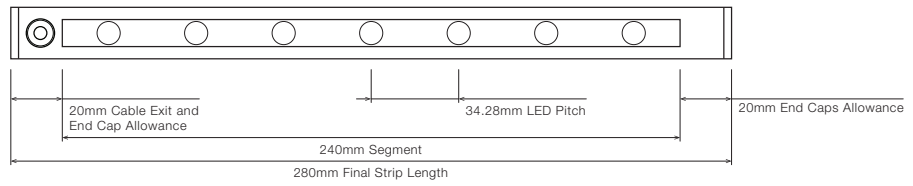
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## TECHNICAL SPECIFICATIONS

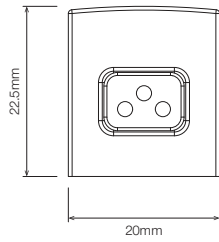
|   | BLUE  | GREEN | RED | AMBER |
|---|---|-------|-----|-------|
| Product Code  | STR-RATIO C IP  |       |     |       |
| Description   | Ratio C IP Medium Power Beam Control LED Strip  |       |     |       |
| Segment Length (S)  | 240mm   |       |     |       |
| Segment Width   | 10.50mm   |       |     |       |
| LED Pitch   | 34.28mm   |       |     |       |
| LEDs Per Segment  | 7   |       |     |       |
| Operating Voltage   | 24VDC   |       |     |       |
| Dimmable  | Through CTR-DALILOGIC or CTR-DIMMERLOGIC (sold separately)  |       |     |       |
| Effective Beam Angle  | Varies with optics (30° – 110°)   |       |     |       |
| External Heatsink Required                                      | No  |       |     |       |
| Ambient Operating Temp  | Ta -40°C to 50°C  |       |     |       |
| Thermal Operating   | Yes (Active)  |       |     |       |
| Reported Lumen Maintenance<br>TM21-11 (@ Ts = 85°C, If = 700mA) | L70 (17K) > 103,000 hours<br>L90 (17K) > 103,000 hours  |       |     |       |
|   | Ratio C IP max. operating values (@ Ts = 40°C, If = 230mA)  |       |     |       |
| IP Rating   | IP66  |       |     |       |
| IK Rating   | IK06 – IK08 (Standard)  |       |     |       |
|   | <ul style="list-style-type: none"> <li>▪ IK Rating of IK06 passed without marks to the extrusion and polyurethane material</li> <li>▪ IK Rating of IK07 and IK08 passed with minor marks to the extrusion and polyurethane material</li> <li>▪ Cable exit / entry not part of the IK Rating test</li> </ul> |       |     |       |
| Max Continuous Connection Length                                | Please refer to installation limitations (Page 08)  |       |     |       |

■ DIMENSIONS

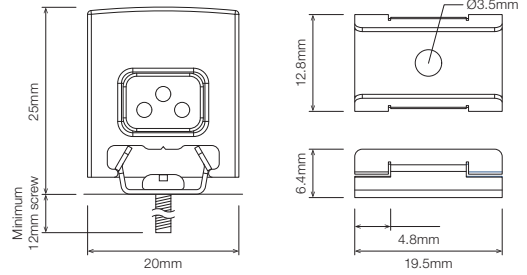
For final strip lengths please refer to the "Product Length" table (Page 06).



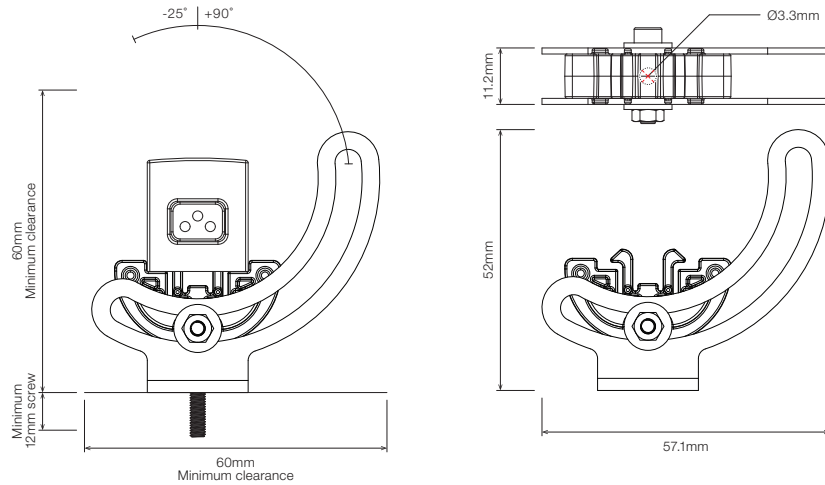
STANDARD PROFILE



WITH STAINLESS STEEL C-CLIP



WITH ROTATING CLIP



▪ PRODUCT LENGTH

| FULL SEGMENTS (S) | EXACT STRIP LENGTH | END CAP ALLOWANCE | FINAL LENGTH |
|-------------------|--------------------|-------------------|--------------|
| 1                 | 240mm              | add 40mm          | 280mm        |
| 2                 | 480mm              | add 40mm          | 520mm        |
| 3                 | 720mm              | add 40mm          | 760mm        |
| 4                 | 960mm              | add 40mm          | 1,000mm      |
| 5                 | 1,200mm            | add 40mm          | 1,240mm      |
| 6                 | 1,440mm            | add 40mm          | 1,480mm      |
| 7                 | 1,680mm            | add 40mm          | 1,720mm      |
| 8                 | 1,920mm            | add 40mm          | 1,960mm      |
| 9                 | 2,160mm            | add 40mm          | 2,200mm      |
| 10                | 2,400mm            | add 40mm          | 2,440mm      |
| 11                | 2,640mm            | add 40mm          | 2,680mm      |
| 12                | 2,880mm            | add 40mm          | 2,920mm      |

<sup>1</sup> Custom lengths - contact Coolon LED for more information.

**⚠ WARNING**

Do not bend LED strip when removing from mounting clips.

Gently twist LED Strip to remove from mounting clips.

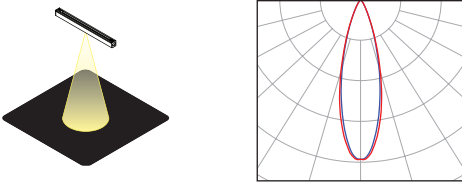
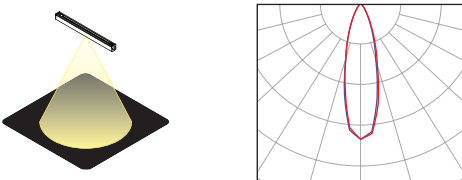
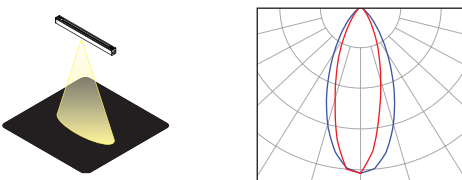
**⚠ WARNING**

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

LED Strips must not be bent.

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

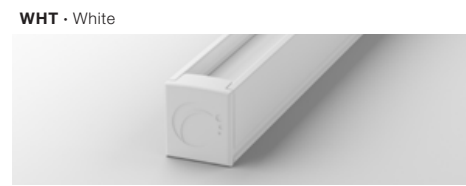
■ POLAR DISTRIBUTION

| OPTIC  | POLAR DISTRIBUTION   |
|--|--|
| 30D<br>Medium Beam<br>30° Beam Angle             |  |
| 50D<br>Wide Beam<br>50° Beam Angle               |  |
| O4018D<br>Oval Beam<br>Oval 40° x 18° Beam Angle |  |

■ DIFFUSER / LOUVRE



■ PROFILE COLOUR



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

WIRING CONFIGURATION

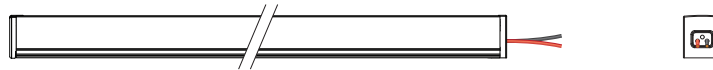
| CONNECTOR TYPE                             | DRAWING | MALE | FEMALE |
|--|---------|------|--------|
| OC2.1MO<br>Connector 2+1 pin Male Only     |         |      |        |
| OC2.1MF<br>Connector 2+1 pin Male + Female |         |      |        |
| SMPLC.1<br>Sample Type Connector 2.5mm     |         |      |        |

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 |

WIRING POSITION

WS - Wire from Side



Ideal for fittings installed individually or vertically.

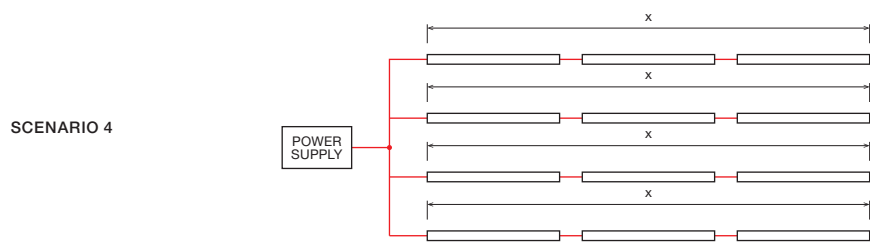
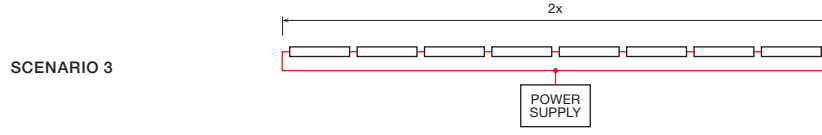
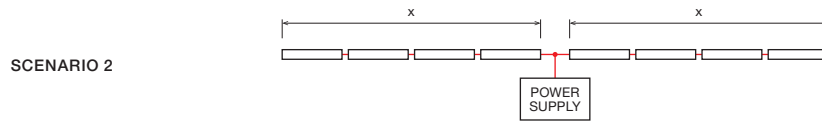
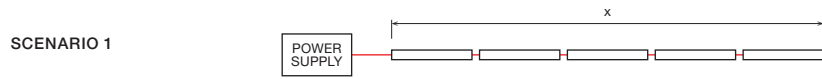
IP RATING

**IP66**

Fully protected against dust.  
Protected against wave-like water jets from all directions.



■ INSTALLATION LIMITS



11W VERSION

| MAX. CONTINUOUS CONNECTION LENGTH (X) | CONNECTOR TYPE  |
|---------------------------------------|---|
| 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  |
|---------------------------------------|---|
| 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.

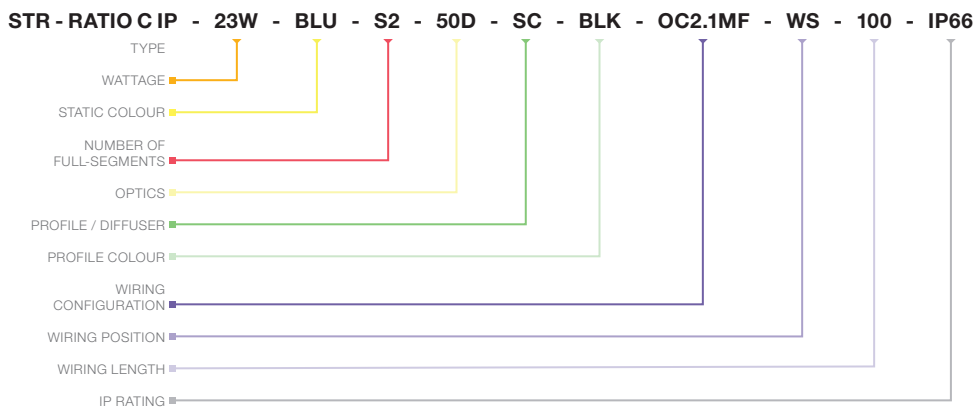
**⚠ WARNING**

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

✗

✗

ORDERING EXAMPLE



■ **WATTAGE**

|     |                 |
|-----|-----------------|
| 11W | 10.5W per metre |
| 23W | 23W per metre   |

■ **COLOUR** PAGE 04

|     |       |
|-----|-------|
| BLU | Blue  |
| GRN | Green |
| RED | Red   |
| AMB | Amber |

■ **PRODUCT LENGTH** PAGE 05

|     |         |
|-----|---------|
| S1  | 280mm   |
| S2  | 520mm   |
| S3  | 760mm   |
| S4  | 1,000mm |
| S5  | 1,240mm |
| S6  | 1,480mm |
| S7  | 1,720mm |
| S8  | 1,960mm |
| S9  | 2,200mm |
| S10 | 2,440mm |
| S11 | 2,680mm |
| S12 | 2,920mm |

■ **OPTICS** PAGE 06

|        |                     |
|--------|---------------------|
| 30D    | 30° Beam            |
| 50D    | 50° Beam            |
| O4018D | Oval 40° x 18° Beam |

■ **PROFILE / LOUVRE** PAGE 06

|    |           |
|----|-----------|
| SC | No Louvre |
|----|-----------|

■ **PROFILE COLOUR** <sup>1</sup> PAGE 06

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

■ **WIRING CONFIGURATION** PAGE 07

|         |   |
|---------|---|
| 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             |

■ **WIRING POSITION** PAGE 07

|    |                |
|----|----------------|
| WS | Wire from Side |
|----|----------------|

■ **WIRING LENGTH** PAGE 07




|     |       |
|-----|-------|
| 100 | 100mm |
| 250 | 250mm |

■ **IP RATING** PAGE 07

|      |             |
|------|-------------|
| IP66 | Outdoor Use |
|------|-------------|

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

## ■ ACCESSORIES

|   | PRODUCT CODE      | DESCRIPTION  |
|---|-------------------|--|
| <b>MOUNTING</b>   |                   |  |
|  | MC-CCLIP20        | Stainless Steel C-Clip for P20 Profile                         |
|   | MBR-P20-BLK       | Rotating Mounting Bracket for P20 Profile - Black              |
|   | MBR-P20-WHT       | Rotating Mounting Bracket for P20 Profile - White              |
| * Recommended spacing between Mounting Clips is maximum 300mm.                    |                   |  |
| <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-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      |
| <b>POWER SUPPLY FOR OUTDOOR USE (IP67)</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                       |