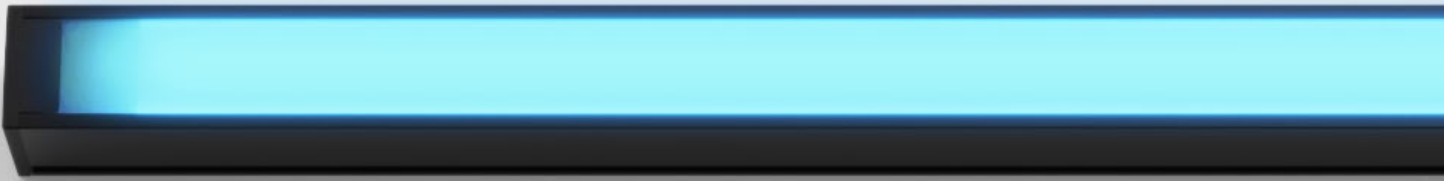




# SPECTRUM IP

LED STRIP STR-SPECTRUM IP





The reliable Spectrum IP allows for smooth colour mixing whilst producing deep and intense coloured light.

Each strip segment contains 30 RGB LEDs and is perfect for architectural lighting applications. Spectrum IP applies advanced technology, using a single RGB diode that allows colour mixing to occur inside the diode, projecting an equally pure, bright and untainted glow of each colour.

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**POWER****LUMINOUS FLUX****15W**

15.6W / metre

**P20T**

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**RGB FULL COLOUR**

## RGB COLOURS

Spectrum IP offers full gamut RGB colour ideal for decorative application and dazzling effects.

## ELEGANT ENCAPSULATION

Spectrum IP utilises Coolon's encapsulation technology to deliver a truly extraordinary outdoor luminaire. IP65, IK08, shock and abrasion resistance, thermal protection, and dashing good looks, all in one.

L70

### LONG USEFUL 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.



### FLEXIBLE COLOUR MIXING VARIATIONS

Combining three individual red, green and blue LEDs to provide spectacular colour mixing. Our high performance and superior quality LEDs have the ability to produce 16.7 million colours.

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

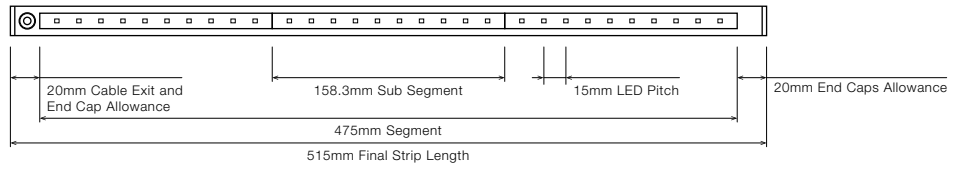
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## TECHNICAL SPECIFICATIONS

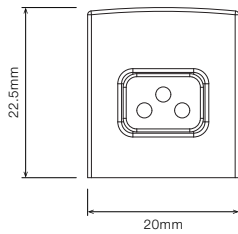
Product Code	STR-SPECTRUM IP		
Description	Spectrum IP RGB LED Strip		
Segment Length (S)	450mm		
Sub-Segment Length (A)	150mm		
Number of Sub-Segments	3		
Segment Width	10.50mm		
LED Pitch	15.00mm		
LEDs Per Segment	30		
LEDs Per Sub Segment	10		
Operating Voltage	24VDC		
Typical Power Consumption per Segment	7.0W per 450mm Segment		
Typical Power Consumption per Metre	15.6W per metre		
Typical Current per 450mm Segment	■ Red - 61mA	■ Green - 117mA	■ Blue - 114mA
Colour Rendering Index (CRI)	Not Applicable		
Dimmable	Through DRV-RDM-P4 and DRV-RDM-IP-P4		
Effective Beam Angle	110°		
External Heatsink Required	No		
Ambient Operating Temp	Ta -40°C to 50°C		
Thermal Management	Yes (Active)		
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours		
IP Rating	IP66		
Max Continuous Connection Length	Please refer to installation limitations		
Wavelength	■ Red - 626nm	■ Green - 535nm	■ Blue - 472nm

■ DIMENSIONS

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



**P20 PROFILE**



**AVAILABLE IN**

Diffused



**MOUNTING OPTIONS**

- **MC-CCLIP20**  
Stainless Steel C-Clip for P20 Profile
- **MC-STR-P20R**  
Rotating Clip Mount for P20 Profile



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



## PRODUCT LENGTH

FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
PS0	A1	175mm	add 40mm	215mm
PS0	A2	325mm	add 40mm	365mm
PS1	A0	475mm	add 40mm	515mm
PS1	A1	625mm	add 40mm	665mm
PS1	A2	775mm	add 40mm	815mm
PS2	A0	925mm	add 40mm	965mm
PS2	A1	1,075mm	add 40mm	1,115mm
PS2	A2	1,225mm	add 40mm	1,265mm
PS3	A0	1,375mm	add 40mm	1,415mm
PS3	A1	1,525mm	add 40mm	1,565mm
PS3	A2	1,675mm	add 40mm	1,715mm
PS4	A0	1,825mm	add 40mm	1,865mm
PS4	A1	1,975mm	add 40mm	2,015mm
PS4	A2	2,125mm	add 40mm	2,165mm
PS5	A0	2,275mm	add 40mm	2,315mm
PS5	A1	2,425mm	add 40mm	2,465mm
PS5	A2	2,575mm	add 40mm	2,615mm
PS6	A0	2,725mm	add 40mm	2,765mm
PS6	A1	2,875mm	add 40mm	2,915mm

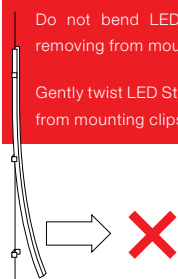
Confirm interstate courier compliance

Custom length subject to availability

### ⚠ WARNING

Do not bend LED strip when removing from mounting clips.

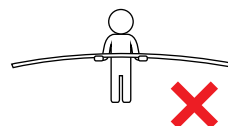
Gently twist LED Strip to remove from mounting clips.



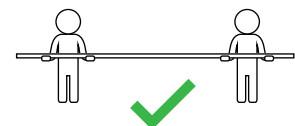
### ⚠ WARNING

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

**P20T** - P20 Profile Diffused



▪ PROFILE COLOUR

Profile colour applicable to P20 only.

**BLK** - Black (Standard)



**WHT** - White (Standard)



**CST** - Custom Colour <sup>1</sup>



▪ WIRING CONFIGURATION

**CONNECTOR TYPE**

**DRAWING**

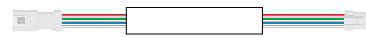
**MALE**

**FEMALE**

**OC4MO**  
Outdoor Connector 4pin Male Only



**OC4MF**  
Outdoor Connector 4pin Male + Female



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

WIRING COLOUR CODE	
White	+ VDC
Red	GND (RED)
Green	GND (GREEN)
Blue	GND (BLUE)

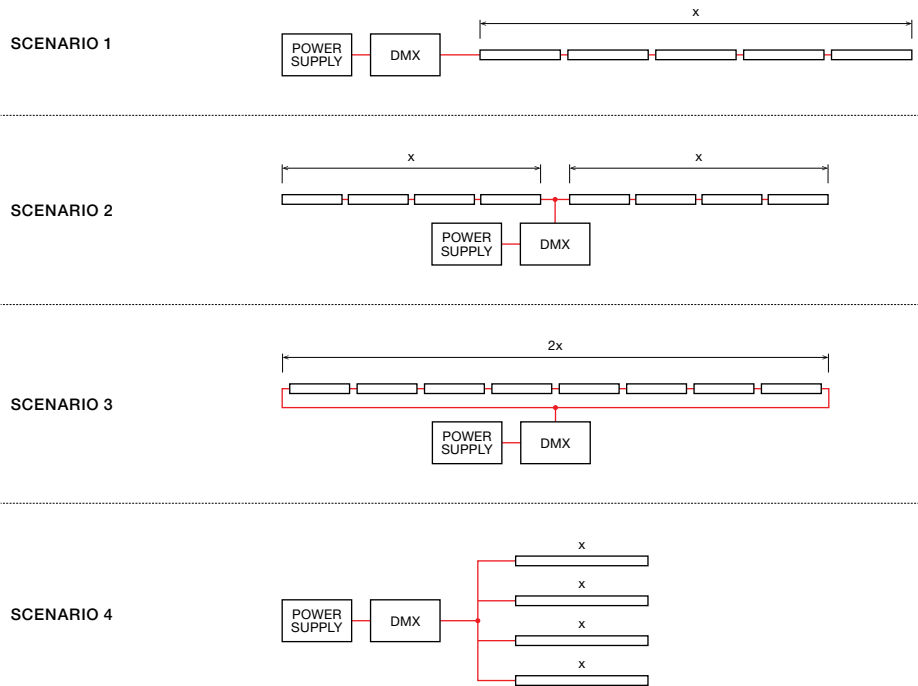
▪ IP RATING

**IP66**

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

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

■ INSTALLATION LIMITS



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

4,000 mm With upgraded outdoor 4 pin connectors (OC4MO / OC4FO / OC4MF)

- Please consult Coolon for details on extension cables between LED fittings, drivers and PSUs.
- DMX Driver can only drive runs totalling 6Amps or less.
- Maximum run length of RGB strip may be restricted by DMX / RDM driver. Please refer to Coolon's Driver brochures.

**⚠ WARNING**

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

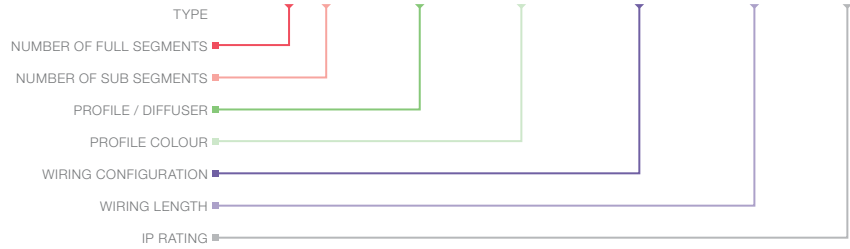
**✗**

**✗**



ORDERING EXAMPLE

**STR - SPECTRUM IP RGB - PS2A1 - P20T - BLK - OC4MO - 100 - IP66**



■ **PRODUCT LENGTH** PAGE 06

FULL SEGMENTS	SUB SEGMENTS
PS0	A0
PS1	A1
PS2	A2
PS3	
PS4	
PS5	
PS6	

■ **PROFILE / DIFFUSER** PAGE 07

P20T	P20 Profile Diffused
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■ **PROFILE COLOUR** PAGE 07

BLK	Black (Standard)
WHT	White
CST	Custom Colour

■ **WIRING CONFIGURATION** PAGE 07

OC4MO	Outdoor Connector 4 pin Male Only
OC4MF	Outdoor Connector 4 pin Male + Female

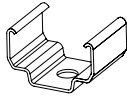


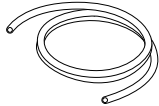
■ **WIRING LENGTH**

100	100mm
250	250mm

■ **IP RATING** PAGE 07

IP66	Outdoor Use
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## ■ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
<b>MOUNTING CLIP <sup>1</sup></b>		
	MC-CCLIP20	Stainless Steel C-Clip for P20 Profile
	MC-STR-P20R	Rotating Clip Mount for P20 Profile
<p><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.</p>		
<b>DRIVER</b>		
	DRV-RDM-P4	DMX / RDM 4 Channel LED Driver
	DRV-RDM-IP-P4	Outdoor DMX / RDM 4 Channel LED Driver
	DRV-RDM-IPQC-P4	Outdoor RDM Point 4 Channel PWM LED Driver + Quick Connectors
	DRV-RDM-IPQC05-P4	Outdoor RDM Point 4 Channel PWM LED Driver + Quick Connectors
<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
<b>CABLE EXTENSIONS</b>		
	CBLEXT-STR-WR4-IP40-3M	3m Cable Extension for Strips 2x Red and 2x Black, 0.75mm <sup>2</sup> wire
	CBLEXT-STR-WR4-IP40-5M	5m Cable Extension for Strips 2x Red and 2x Black, 0.75mm <sup>2</sup> wire
	CBLEXT-STR-OC4-IP65-3M	3m Connector Extension for Strips 2x Red and 2x Black, 0.75mm <sup>2</sup> wire
	CBLEXT-STR-OC4-IP65-5M	5m Connector Extension for Strips 2x Red and 2x Black, 0.75mm <sup>2</sup> wire