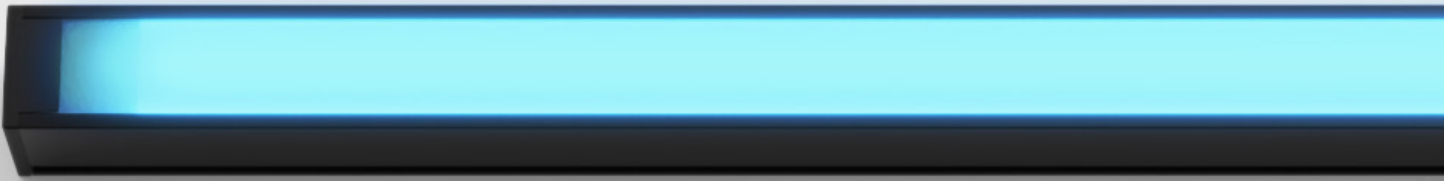# SPECTRUM IP

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

Each strip segment contains 30 RGB LEDs and is perfect for outdoor 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.

POWER	LUMINOUS FLUX

15W
15.6W / metre

P20T

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. IP66, IK08, shock and abrasion resistance, thermal protection, and dashingly 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.
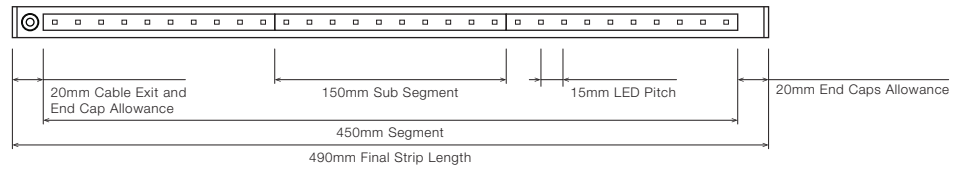
PROUDLY MADE IN AUSTRALIA

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.
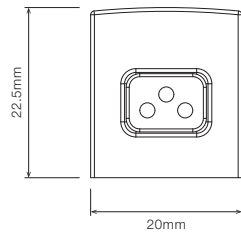
▪ TECHNICAL SPECIFICATIONS

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	No
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours
IP Rating	IP66
IK Rating	IK08
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.

20mm Cable Exit and End Cap Allowance

150mm Sub Segment

15mm LED Pitch

20mm End Caps Allowance

450mm Segment

490mm Final Strip Length

P20 PROFILE

22.5mm

20mm

AVAILABLE IN

Diffused

MOUNTING OPTIONS

▪ **MC-CCLIP20**
Stainless Steel C-Clip for P20 Profile

▪ **MBR-RB-TA-P20**
Rotating Bracket,
TYPE A Rotating Clip

▪ **MBR-RB-TB-P20**
Rotating Bracket,
TYPE B Rotating Clip

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	150mm	add 40mm	190mm
PS0	A2	300mm	add 40mm	340mm
PS1	A0	450mm	add 40mm	490mm
PS1	A1	600mm	add 40mm	640mm
PS1	A2	750mm	add 40mm	790mm
PS2	A0	900mm	add 40mm	940mm
PS2	A1	1,050mm	add 40mm	1,090mm
PS2	A2	1,200mm	add 40mm	1,240mm
PS3	A0	1,350mm	add 40mm	1,390mm
PS3	A1	1,500mm	add 40mm	1,540mm
PS3	A2	1,650mm	add 40mm	1,690mm
PS4	A0	1,800mm	add 40mm	1,840mm
PS4	A1	1,950mm	add 40mm	1,990mm
PS4	A2	2,100mm	add 40mm	2,140mm
PS5	A0	2,250mm	add 40mm	2,290mm
PS5	A1	2,400mm	add 40mm	2,440mm
PS5	A2	2,550mm	add 40mm	2,590mm
PS6	A0	2,700mm	add 40mm	2,740mm
PS6	A1	2,850mm	add 40mm	2,890mm

▢ Confirm interstate courier compliance

▪ Custom length subject to availability

⚠ **WARNING**

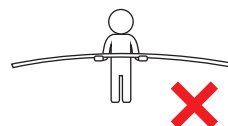Do not bend LED strip when removing from mounting clips.

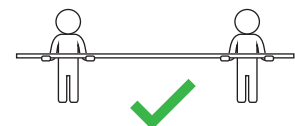Gently twist LED Strip to remove from mounting clips.

➡ ✖
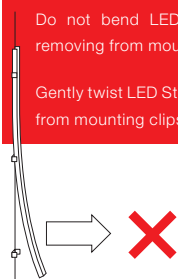
⚠ **WARNING**

PLEASE HANDLE LONG LED STRIPS WITH CARE.

LED Strips must not be bent.

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

✖   ✔

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▪ PROFILE / DIFFUSER

P20T · P20 Profile Diffused

▪ PROFILE COLOUR

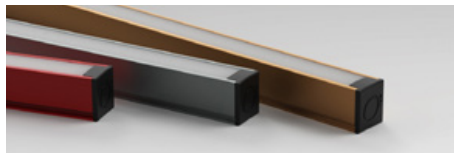Profile colour applicable to P20 only.

BLK · Black (Standard)

WHT · White (Standard)

CST · Custom Colour [1]

▪ 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.

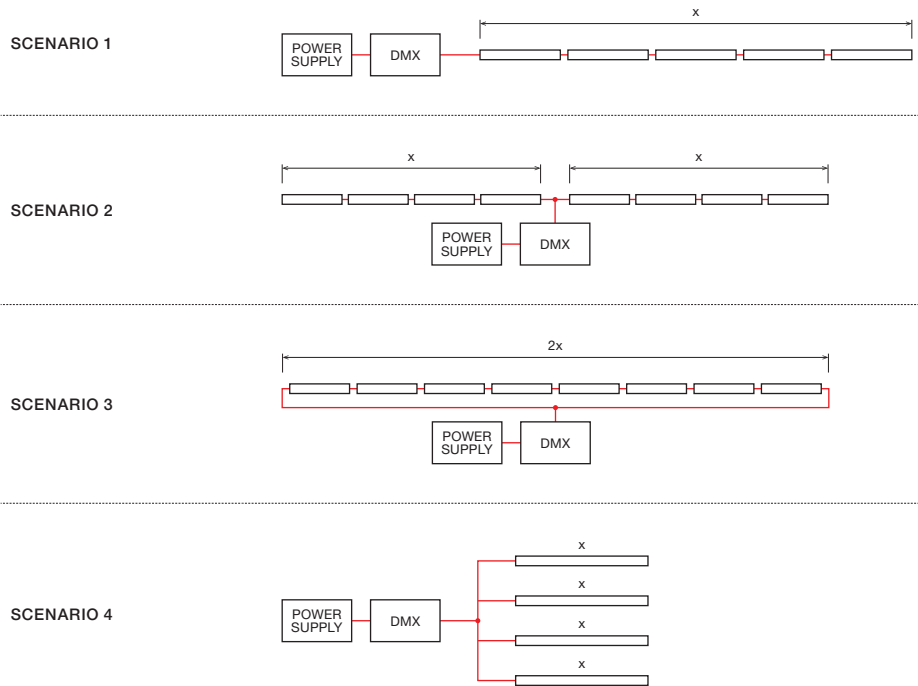| WIRING COLOUR CODE	
White	+ VDC
Red	GND (RED)
Green	GND (GREEN)
Blue	GND (BLUE)

▪ IP RATING

IP66

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

[1]   Custom colours available on request.

▪ INSTALLATION LIMITS

SCENARIO 1

SCENARIO 2

SCENARIO 3

SCENARIO 4

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

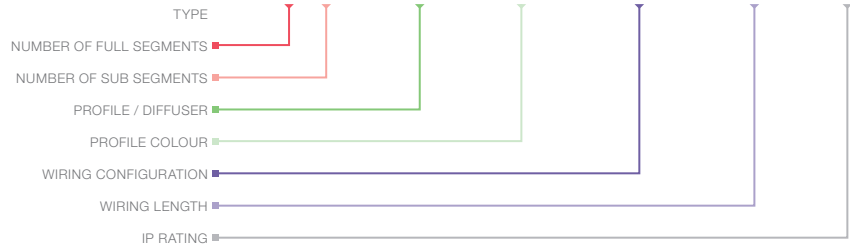Avoid connecting multiple power supplies into a single circuit, unless they are specifically designed to do so.

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- ORDERING
EXAMPLE

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

TYPE

NUMBER OF FULL SEGMENTS

NUMBER OF SUB SEGMENTS

PROFILE / DIFFUSER

PROFILE COLOUR

WIRING CONFIGURATION

WIRING LENGTH

IP RATING

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

PROFILE COLOUR ² 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
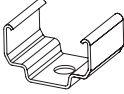
WIRING LENGTH

100	100mm
250	250mm

IP RATING PAGE 07

IP66	Outdoor Use

▪ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
MOUNTING CLIP [1]		
	MC-CCLIP20	Stainless Steel C-Clip for P20 Profile
	MBR-RB-TA-P20-BLK	Rotating Bracket, TYPE A Rotating Clip - Black
	MBR-RB-TB-P20-BLK	Rotating Bracket, TYPE B Rotating Clip - Black

[1] 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.

	PRODUCT CODE	DESCRIPTION
DRIVER		
	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

	PRODUCT CODE	DESCRIPTION
POWER SUPPLY FOR OUTDOOR USE (IP67)		
	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

	PRODUCT CODE	DESCRIPTION
CABLE EXTENSIONS		
	CBLEXT-STR-WR4-IP40-3M	3m Cable Extension for Strips 2x Red and 2x Black, 0.75mm^2 wire
	CBLEXT-STR-WR4-IP40-5M	5m Cable Extension for Strips 2x Red and 2x Black, 0.75mm^2 wire
	CBLEXT-STR-OC4-IP65-3M	3m Connector Extension for Strips 2x Red and 2x Black, 0.75mm^2 wire
	CBLEXT-STR-OC4-IP65-5M	5m Connector Extension for Strips 2x Red and 2x Black, 0.75mm^2 wire