

SPECTRUM 450

LED STRIP STR-SPECTRUM 450



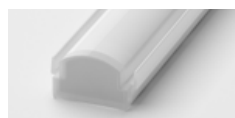


The reliable Spectrum 450 Strip allows for smooth colour mixing whilst producing deep and intensely coloured light.

Each LED Strip segment contains 30 RGB LEDs and is perfect for architectural lighting applications. Spectrum 450 LED Strip 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 any colour.

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

15.6W / metre

**SD** • 400 lm / metre**LD****RD****P17D****RGB FULL COLOUR**

RGB COLOURS

The Spectrum 450 offers RGB full gamut of colour ideal for decorative application and dazzling effects.

VERSATILE LENGTH OPTIONS

Versatile length options allows the user to achieve much more accurate and adaptable lengths. The Spectrum 450 is able to achieve any desired length within a 150mm increment.



L70

LONG USEFUL 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.



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

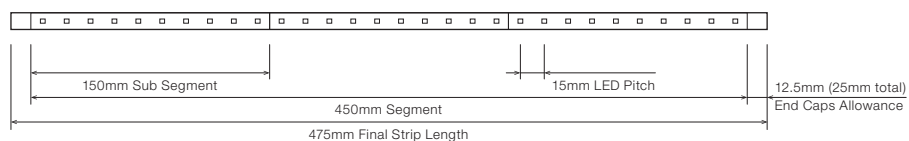
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

■ TECHNICAL SPECIFICATIONS

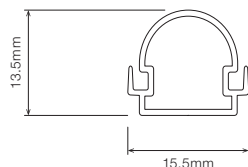
Product Code	STR-SPECTRUM450		
Description	RGB LED Strip		
Segment Length (S)	450mm		
Sub-Segment Length (A)	150mm		
Number of Sub-Segments	3		
Segment Width	10.50mm		
LED Pitch	15.00mm		
LEDs Per Segment	30		
LEDs Per Sub Segment	10		
Operating Voltage	24VDC		
Typical Power Consumption per Segment	7.0W 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	IP40 (Standard), up to IP68		
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.



STANDARD PROFILE



AVAILABLE IN

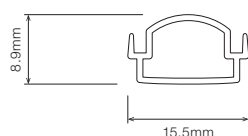
Diffused



MOUNTING OPTIONS

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

LOW PROFILE



AVAILABLE IN

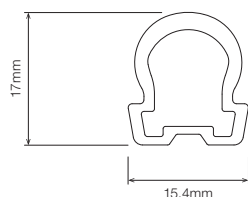
Diffused



MOUNTING OPTIONS

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

REINFORCED PROFILE



AVAILABLE IN

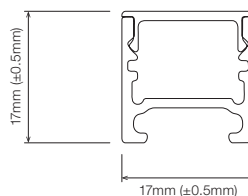
Diffused



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



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
S0	A1	150mm	add 25mm	175mm
S0	A2	300mm	add 25mm	325mm
S1	A0	450mm	add 25mm	475mm
S1	A1	600mm	add 25mm	625mm
S1	A2	750mm	add 25mm	775mm
S2	A0	900mm	add 25mm	925mm
S2	A1	1,050mm	add 25mm	1,075mm
S2	A2	1,200mm	add 25mm	1,225mm
S3	A0	1,350mm	add 25mm	1,375mm
S3	A1	1,500mm	add 25mm	1,525mm
S3	A2	1,650mm	add 25mm	1,675mm
S4	A0	1,800mm	add 25mm	1,825mm
S4	A1	1,950mm	add 25mm	1,975mm
S4	A2	2,100mm	add 25mm	2,125mm
S5	A0	2,250mm	add 25mm	2,275mm
S5	A1	2,400mm	add 25mm	2,425mm
S5	A2	2,550mm	add 25mm	2,575mm
S6	A0	2,700mm	add 25mm	2,725mm
S6	A1	2,850mm	add 25mm	2,875mm
S6	A2	3,000mm	add 25mm	3,025mm
S7	A0	3,150mm	add 25mm	3,175mm
S7	A1	3,300mm	add 25mm	3,325mm

Confirm interstate courier compliance

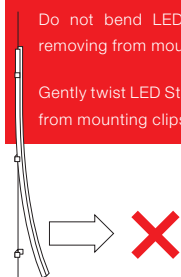
Custom length subject to availability

IP65 and IP66 fitting only available up to 3,300mm

⚠ WARNING

Do not bend LED strip when removing from mounting clips.

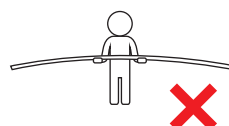
Gently twist LED Strip to remove from mounting clips.



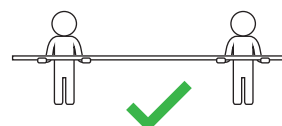
⚠ WARNING

PLEASE HANDLE LONG LED STRIPS WITH CARE.

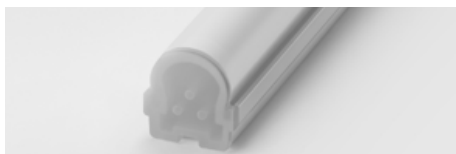
LED Strips must not be bent.



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)

■ PROFILE COLOUR

Profile colour applicable to P17 only.

BLK • Black (Standard)**WHT** • White**CST** • Custom Colour ¹

¹ Custom colours available on request.

WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	MALE	FEMALE
WR4OS Wire 4 Core One Side			
WR4BS Wire 4 Core Both Sides			
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

IP40

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

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

IP65

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

- SD Profile ¹
- LD Profile ¹
- RD Profile ¹
- P17T Profile ²

IP68

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

- SD Profile ¹
- LD Profile ¹
- RD Profile ¹

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

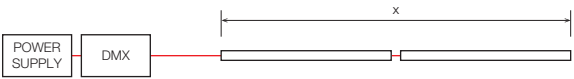
² IP65 rating is only available for lengths up to 3,000mm for P17T profile

■ INSTALLATION LIMITS

SCENARIO 1



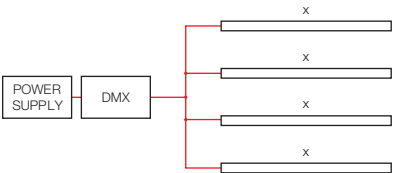
SCENARIO 2



SCENARIO 3



SCENARIO 4

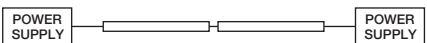
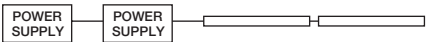


MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
5,400 mm	With standard 4 core (WR4OS / WR4BS)
4,000 mm	With upgraded outdoor 4 pin connectors (OC4MO / OC4FO / OC4MF)

- 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.

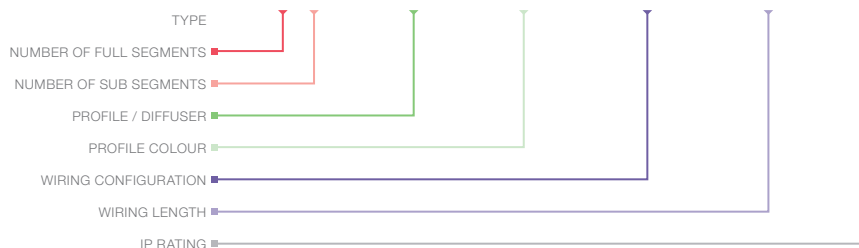
⚠ WARNING

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



ORDERING EXAMPLE

STR - SPECTRUM 450 - S2A1 - P17D - BLK - WR4BS - 100 - IP40



■ PRODUCT LENGTH PAGE 06

FULL SEGMENTS	SUB SEGMENTS
S1	A0
S2	A1
S3	A2
S4	
S5	
S6	
S7	

■ 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)

■ PROFILE COLOUR ¹ PAGE 07

BLK	Black (Standard)
WHT	White
CST	Custom Colour

■ WIRING CONFIGURATION PAGE 08

WR4OS	Wire 4 Core One Side
WR4BS	Wire 4 Core Both Sides
OC4MO	Outdoor Connector 4 pin Male Only
OC4MF	Outdoor Connector 4 pin Male + Female

■ WIRING LENGTH PAGE 09

100	100mm
250	250mm
500	500mm
1000	1000mm

■ IP RATING PAGE 08

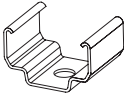
IP40	Indoor Use
IP65	Outdoor Use ^{2 / 3}
IP68	Prolonged Immersion Use ²

¹ Profile colour applicable to P17 only. Custom colours available on request.

² IP65 and IP68 rating is only available for length up to 2,400mm for SD, LD and RD profiles

³ IP65 rating is only available for lengths up to 3,000mm for P17T profile

■ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
	MOUNTING CLIP ¹	
	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

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.

DRIVER



DRV-RDM-P4	DMX / RDM 4 Channel LED Driver
DRV-RDM-IP-P4	Outdoor DMX / RDM 4 Channel LED Driver

POWER SUPPLY FOR OUTDOOR USE (IP67)



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-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