



EDGE RGB

LED Strip





The Edge RGB LED Strip is a unique light source designed especially for edge-lighting applications.

The LED strip or 'segment' contains 49 side-emitting LEDs and is perfect for special lighting applications where no other light sources can fit. Most standard LED strips emit light from the top surface of the printed circuit board (PCB), on which the LEDs are mounted, the side-emitting LED strip emits light from the edge of the PCB. Most standard LED strips are often used for lighting panels from the back, while the Edge RGB LED strip can be used for edge-lighting panels, and in applications where space for the light source is limited.

POWER

26W

26W / metre

LUMINOUS FLUX



SC • 560 lm / metre

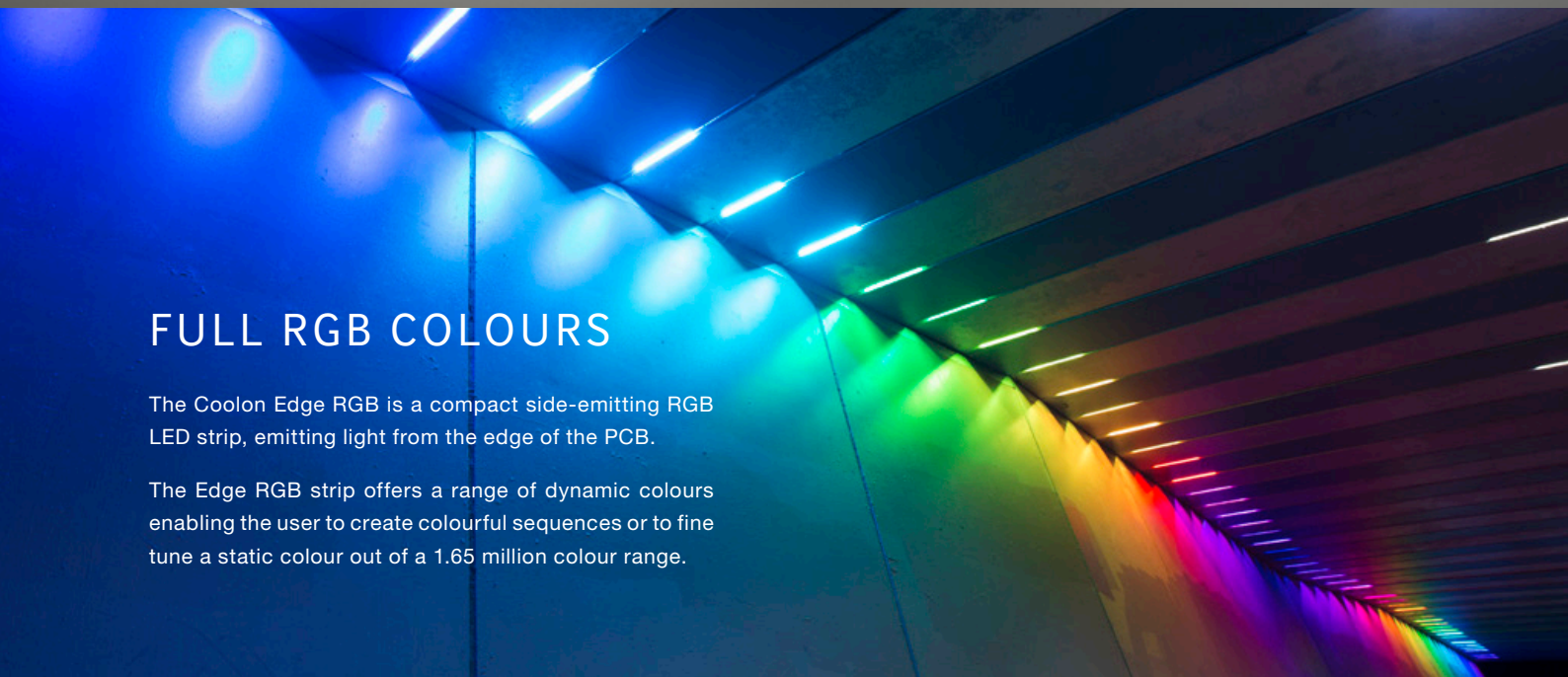
RGBW FULL COLOUR





SIDE ILLUMINATION

Unlike standard LED strips where light is emitted from the top surface of the printed circuit board (PCB), Coolon's Edge LED strip emits light from the edge of the PCB.



FULL RGB COLOURS

The Coolon Edge RGB is a compact side-emitting RGB LED strip, emitting light from the edge of the PCB.

The Edge RGB strip offers a range of dynamic colours enabling the user to create colourful sequences or to fine tune a static colour out of a 1.65 million colour range.



LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



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.



3 YEARS FULL /SOLID 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

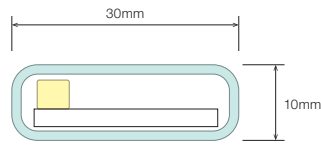
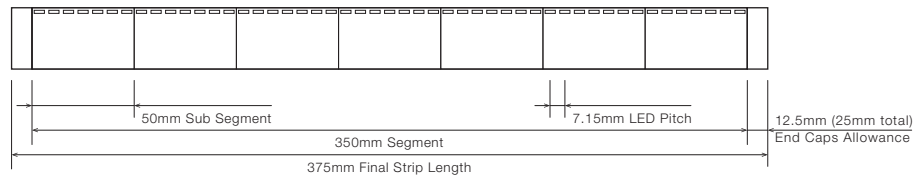
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

TECHNICAL SPECIFICATIONS

Product Code	STR-EDGE RGB		
Description	Edge Side Emitting RGB LED Strip		
Segment Length (S)	350mm		
Sub-Segment Length (A)	50mm		
Number of Sub-Segments	7		
Segment Width	26.00mm		
LED Pitch	7.14mm		
LEDs Per Segment	49		
LEDs Per Sub Segment	7		
Operating Voltage	24VDC		
Typical Power Consumption per Segment	9.1W per 350mm Segment		
Typical Power Consumption per Metre	26.0W per metre		
Typical Current per 350mm Segment	■ Red - 122mA	■ Green - 124mA	■ Blue - 125mA
Colour Rendering Index (CRI)	Not Applicable		
Dimmable	With RDM / DMX Driver		
Effective Beam Angle	110°		
External Heatsink Required	No		
Ambient Operating Temp	Ta -40°C to 50°C		
Thermal Operating	Yes (Active)		
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours		
IP Rating	IP40 (Standard), up to IP68 (Modified)		
Max Continuous Connection Length	Please refer to installation limitations		
Wavelength	■ Red - 629nm	■ Green - 535nm	■ Blue - 469nm

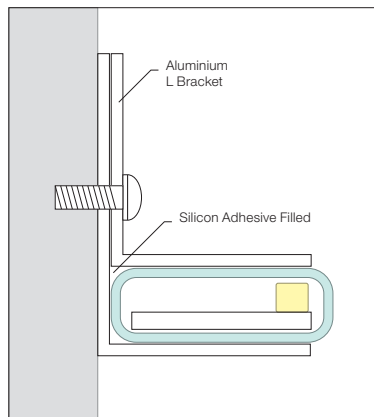
■ DIMENSIONS

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

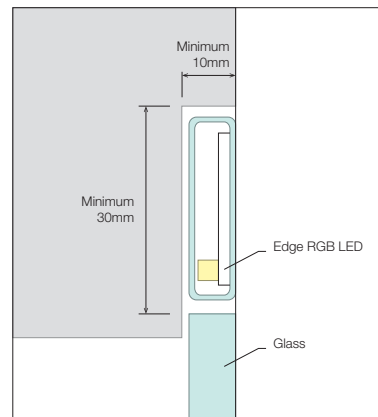


Mounting Clips not available.
Adhesive Silicon recommended.

RECOMMENDED CUSTOM BRACKET ASSEMBLY (NOT SOLD)



RECOMMENDED REBATE EDGE LIGHTING APPLICATIONS



PRODUCT LENGTH

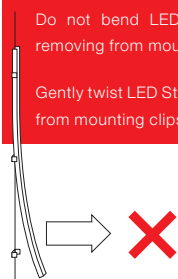
FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
0	1	50mm	add 25mm	75mm
0	2	100mm	add 25mm	125mm
0	3	150mm	add 25mm	175mm
0	4	200mm	add 25mm	225mm
0	5	250mm	add 25mm	275mm
0	6	300mm	add 25mm	325mm
1	0	350mm	add 25mm	375mm
1	1	400mm	add 25mm	425mm
1	2	450mm	add 25mm	475mm
1	3	500mm	add 25mm	525mm
1	4	550mm	add 25mm	575mm
1	5	600mm	add 25mm	625mm
1	6	650mm	add 25mm	675mm
2	0	700mm	add 25mm	725mm
2	1	750mm	add 25mm	775mm
2	2	800mm	add 25mm	825mm
2	3	850mm	add 25mm	875mm
2	4	900mm	add 25mm	925mm
2	5	950mm	add 25mm	975mm
2	6	1000mm	add 25mm	1025mm
3	0	1050mm	add 25mm	1075mm
3	1	1100mm	add 25mm	1125mm
3	2	1150mm	add 25mm	1175mm
3	3	1200mm	add 25mm	1225mm
3	4	1250mm	add 25mm	1275mm
3	5	1300mm	add 25mm	1325mm
3	6	1350mm	add 25mm	1375mm
4	0	1400mm	add 25mm	1425mm
4	1	1450mm	add 25mm	1475mm
4	2	1500mm	add 25mm	1525mm
4	3	1550mm	add 25mm	1575mm
4	4	1600mm	add 25mm	1625mm
4	5	1650mm	add 25mm	1675mm
4	6	1700mm	add 25mm	1725mm
5	0	1750mm	add 25mm	1775mm
5	1	1800mm	add 25mm	1825mm
5	2	1850mm	add 25mm	1875mm
5	3	1900mm	add 25mm	1925mm
5	4	1950mm	add 25mm	1975mm
5	5	2000mm	add 25mm	2025mm
5	6	2050mm	add 25mm	2075mm
6	0	2100mm	add 25mm	2125mm
6	1	2150mm	add 25mm	2175mm
6	2	2200mm	add 25mm	2225mm
6	3	2250mm	add 25mm	2275mm
6	4	2300mm	add 25mm	2325mm
6	5	2350mm	add 25mm	2375mm
6	6	2400mm	add 25mm	2425mm
7	0	2450mm	add 25mm	2475mm

Confirm Interstate Courier Compliance

⚠ WARNING

Do not bend LED strip when removing from mounting clips.

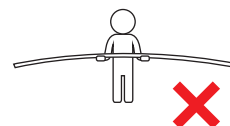
Gently twist LED Strip to remove from mounting clips.



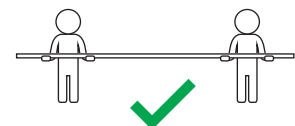
⚠ WARNING

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

SC - Standard Clear (P30x10)



SD - Standard Diffused (P30x10)



WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	FEMALE	MALE
WR4OS Wire 4 Core One Side			
WR4BS Wire 4 Core Both Sides			
OC4MO Outdoor Connector 4pin Male Only			
OC4FO Outdoor Connector 4pin Female Only			
OC4MF Outdoor Connector 4pin Male + Female			

- Typical Loom Length 100 – 250mm.
- For detailed information on Outdoor IP67 connector please contact Coolon.
- Extension cables between LED fittings and driver or PSU is based on: LED load, outdoor or indoor applications. Please consult Coolon for details.

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.

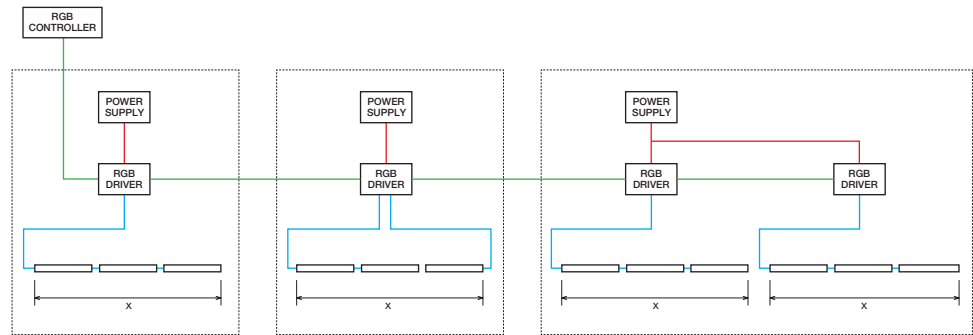
IP65

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

IP68

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

■ INSTALLATION LIMITS



MAX. CONTINUOUS CONNECTION LENGTH (X) CONNECTOR TYPE

5600 mm	With standard 4 core (WR4OS / WR4BS)
2200 mm	With upgraded outdoor 4 pin connectors (OC4MO / OC4FO / OC4MF)

- Extension cables between LED fittings and driver or PSU is based on: LED load, outdoor or indoor applications. Please consult Coolon for details.
- Maximum run length of RGB strip may be restricted by DMX / RDM driver. Please refer to Coolon's Driver brochures.

⚠ WARNING

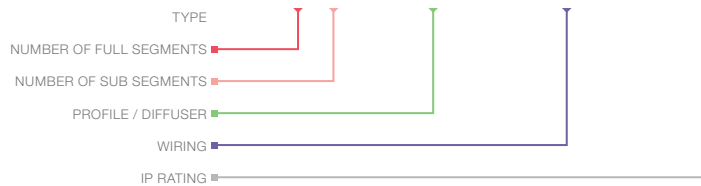
Avoid connecting multiple power supplies into a single circuit, unless they are specifically designed to do so.

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ORDERING EXAMPLE

STR - EDGE RGB - S2A0 - SD - WR4BS - IP40



■ **PRODUCT LENGTH** PAGE 06

FULL SEGMENTS	SUB SEGMENTS
S1	A0
S2	A1
S3	A2
S4	A3
S5	A4
S6	A5
S7	A6

■ **PROFILE / DIFFUSER** PAGE 07

SC	Standard Profile Clear (P30x10)
SD	Standard Profile Diffused (P30x10)

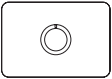

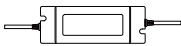

■ **WIRING CONFIGURATION** PAGE 07

WR4OS	Wire 4 Core One Side
WR4BS	Wire 4 Core Both Sides
OC4MO	Outdoor Connector 4 pin Male Only
OC4FO	Outdoor Connector 4 pin Female Only
OC4MF	Outdoor Connector 4 pin Male + Female

■ **IP RATING** PAGE 07

IP40
IP65
IP68

■ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
CONTROLLER		
	CTR-DMX-CPAN-4G	Coolon Control DMX Control Panel
	DMX-COOLDMX-4G	Coolon Standalone DMX Sequence Player, with 4GB SD card
DRIVER		
	DRV-DMX-4X2A-RDMP4	Coolon Indoor RDM Point 4 channel PWM driver DMX512
	DRV-DMX-4X2A-RDMP4-IP	Coolon Outdoor RDM Point 4 channel PWM driver DMX512
POWER SUPPLY FOR INDOOR USE		
	PWR-PLN20-24V	Mean Well Power Supply PLN 20W 24V IP64 + Flex & Plug
	PWR-PLN30-24V	Mean Well Power Supply PLN 30W 24V IP64 + Flex & Plug
	PWR-PLN60-24V	Mean Well Power Supply PLN 60W 24V IP64 + Flex & Plug
	PWR-PLN100-24V	Mean Well Power Supply PLN 100W 24V IP64 + Flex & Plug
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