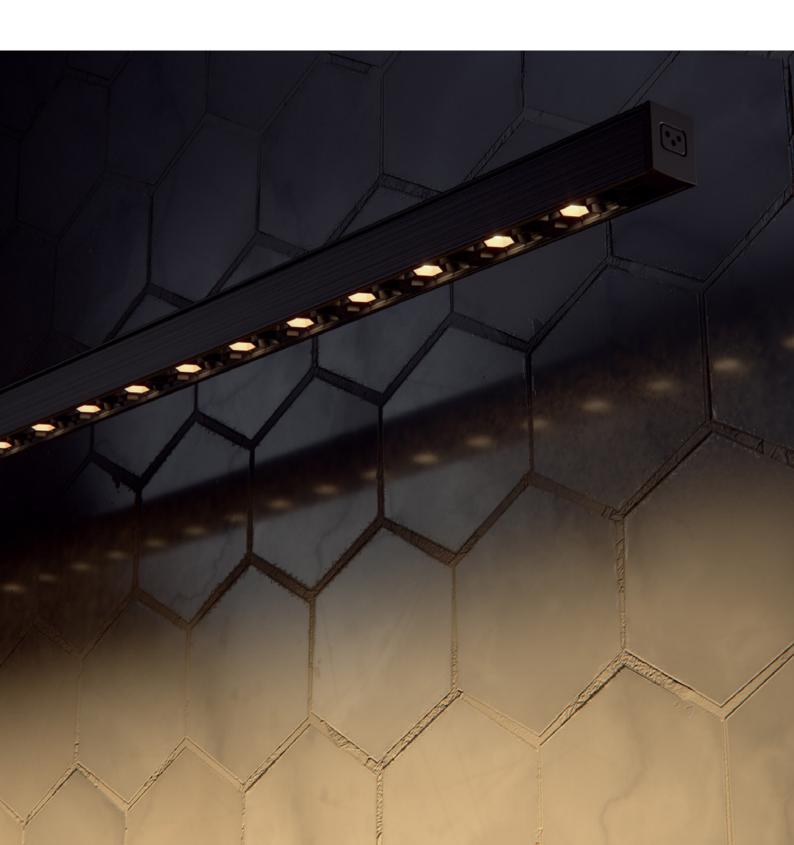


RATIO LED STRIP STR-RATIO





Ratio is our most elegant product that provides inspiring directional light with glare control. Ratio's utility is further enhanced by the availability of 2 wattages (11W and 23W), multiple optics and various lengths.

With no compromise on aesthetics, it is easy to customise the perfect lighting effect for the most demanding of lighting projects.

POWER

11W

11W / metre





23W

23W / metre





COLOUR TEMPERATURE

2700K 3000K 3500K 4000K







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.



VARIOUS CCT & COLOUR BINNING CONSISTENCY

All products are offered in various colour temperatures, and manufactured using tighter bins, ensuring excellent consistency and uniformity.



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

	11W VERSION	23W VERSION
Product Code	STR-RATIO	
Description	Ratio Beam Control LED Strip	
Segment Length (S)	240mm	
Segment Width	10.50mm	
LED Pitch	34.28mm	
LEDs Per Segment	7	
Operating Voltage	24VDC	
Typical Power Consumption per Segment	2.5W per 240mm Segment	5.3W per 240mm Segment
Typical Power Consumption per Metre	11W per metre	23W per metre
Typical Current	115mA per 240mm Segment	230mA per 240mm Segment
Colour Rendering Index (CRI & CCT variations)	90+, Single LED BIN from a 3-step N	MacAdam ellipse
Dimmable	1 – 100% range through CTR-DALIL	OGIC or CTR-DIMMERLOGIC (sold separately)
Effective Beam Angle	Varies with optics (30° – 50°)	
External Heatsink Required	No	
Ambient Operating Temp	Ta -10°C to 50°C	
Thermal Operating	Yes (Active)	
Reverse Polarity Protection	Yes	
Reported Lumen Maintenance TM21-11 (@ Ts = 85°C, I _f = 700mA)	L70 (17K) > 103,000 hours L90 (17K) > 103,000 hours	
	Ratio max. operating values (@ Ts =	40°C, If = 230mA)
IP Rating	IP40	
Max Continuous Connection Length	Please refer to installation limitations	3



• LUMEN / METRE MATRIX

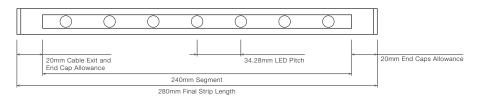
POWER	LUMINOUS FLUX			
11W 11W / metre	2700K CRI	3000K CRI	3500K CRI	4000K CRI
LL Profile (30D Optics)	506 lm / metre	517 lm / metre	NM	528 lm / metre
LL Profile (50D Optics)	539 lm / metre	550 lm / metre	NM	561 lm / metre
LL Profile (O4018D Optics)	418 lm / metre	429 lm / metre	NM	440 lm / metre
HL Profile (30D Optics)	561 lm / metre	572 lm / metre	NM	583 lm / metre
HL Profile (50D Optics)	616 lm / metre	627 lm / metre	NM	638 lm / metre
HL Profile (O4018D Optics)	440 lm / metre	451 lm / metre	NM	462 lm / metre
23W 23W / metre				
LL Profile (30D Optics)	1,035 lm / metre	1,058 lm / metre	NM	1,081 lm / metre
LL Profile (50D Optics)	1,104 lm / metre	1,127 lm / metre	NM	1,150 lm / metre
LL Profile (O4018D Optics)	828 lm / metre	881 lm / metre	NM	874 lm / metre
HL Profile (30D Optics)	1,150 lm / metre	1,173 lm / metre	NM	1,196 lm / metre
HL Profile (50D Optics)	1,265 lm / metre	1,288 lm / metre	NM	1,311 lm / metre
HL Profile (O4018D Optics)	1,035 lm / metre	1,065 lm / metre	NM	1,081 lm / metre

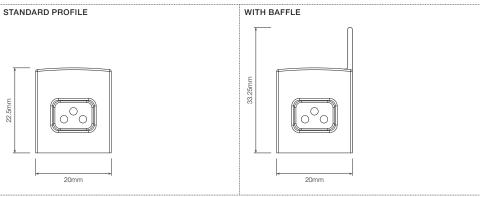




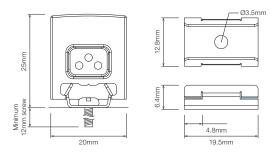
DIMENSIONS

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

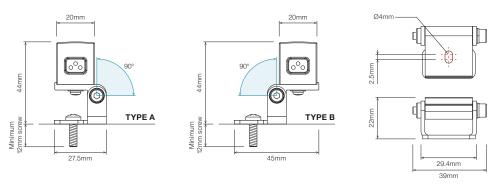




WITH STAINLESS STEEL C-CLIP 1



ROTATING MOUNTING BRACKET, TYPE A/B ROTATING CLIP ¹



WITH SUSPENSION KIT



¹ Recommended spacing between Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.

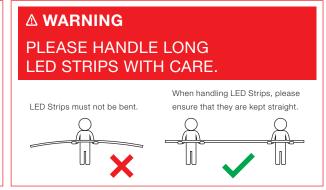


PRODUCT LENGTH

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	1
9	2,160mm	add 40mm	2,200mm	1
10	2,400mm	add 40mm	2,440mm	1
11	2,640mm	add 40mm	2,680mm	1
12	2,880mm	add 40mm	2,920mm	1
13	3,120mm	add 40mm	3,160mm	1
14	3,360mm	add 40mm	3,400mm	1

¹ Custom lengths - contact Coolon LED for more information.





POLAR DISTRIBUTION

OPTIC	POLAR DISTRIBUTION
30D Medium Beam 30° Beam Angle	
50D Wide Beam 50° Beam Angle	
80D Wide Beam 80° Beam Angle	
O4018D Oval Beam Oval 40° x 18° Beam Angle	
O10040D Oval Beam Oval 100° x 40° Beam Angle	
A7030D Asymmetric Beam Asymmetric 70° x 30° Beam Angle	22°



DIFFUSER / LOUVRE





PROFILE COLOUR







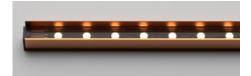




B-WHT · White with Baffle



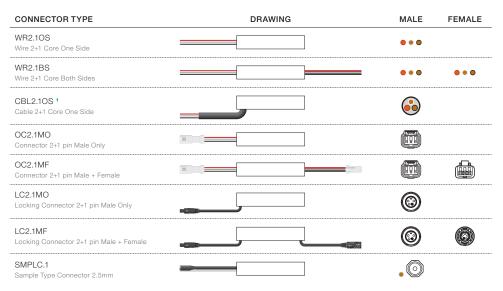
B-CST · Custom Colour with Baffle 1





¹ Custom colours available on request.

WIRING CONFIGURATION

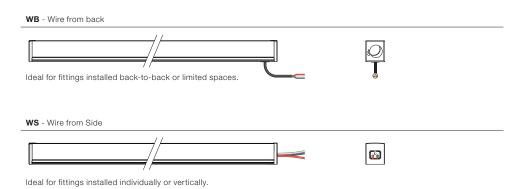


- Typical loom length for surface mount (WS) 100mm / 250mm.
- Typical cable length for suspended applications (WB) 3000mm.
- Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.
- ¹ Cable from one side (CBL2.1OS) is available as Wire from Back (WB) with Suspension Kit.

WIRING COLOUR CODE

+ 24V	Red
– GND	Black
PWM Dimming	White

WIRING POSITION

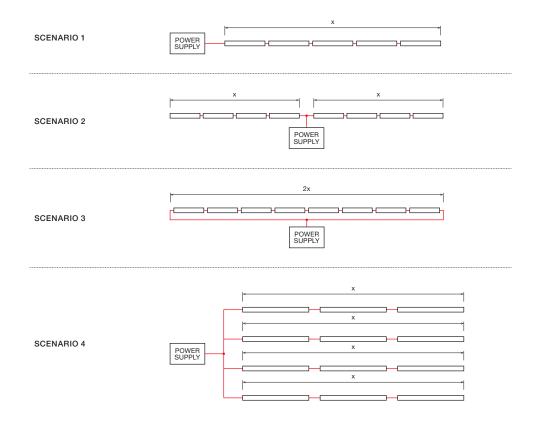


IP RATING



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

INSTALLATION LIMITS



11W VERSION

MAX. CONTINUOUS CONNECTION LENGTH (X) CONNECTOR TYPE

12,200 mm	With 2+1 core (WR2.1OS / WR2.1BS)
5,500 mm	With 2+1 pin connectors (OC2.1MO / OC2.1MF / LC2.1MO / LC2.1MF / SMPLC.1)
3,400 mm / Single Fitting	With 2+1 cable (CBL2.1OS)

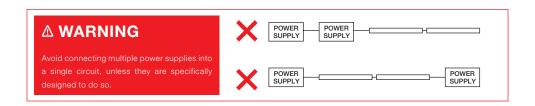
• Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

23W VERSION

MAX. CONTINUOUS CONNECTION LENGTH (X) CONNECTOR TYPE

5,800 mm	With 2+1 core (WR2.1OS / WR2.1BS)
2,500 mm	With 2+1 pin connectors (OC2.1MO / OC2.1MF / LC2.1MO / LC2.1MF / SMPLC.1)
3,400 mm / Single Fitting	With 2+1 cable (CBL2.1OS)

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





ORDERING **EXAMPLE**



WATTAGE

11W	10.5W per metre
23W	23W per metre

COLOUR TEMPERATURE 1 PAGE 04

2.7KCRI	2700K CRI 90
3.0KCRI	3000K CRI 90
3.5KCRI	3500K CRI 90
4.0KCRI	4000K CRI 90

■ PRODUCT LENGTH PAGE 06

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
S13	3,160mm
S14	3,400mm

OPTICS PAGE 07

30D	30° Beam
50D	50° Beam
80D	50° Beam
O4018D	Oval 40° x 18° Beam
O10040D	Oval 100° x 40° Beam
A7030D	Asymmetric 70° x 30° Beam

■ PROFILE / LOUVRE PAGE 07

LL	Longitudinal Louvre
HL	Honeycomb Louvre

■ PROFILE COLOUR 2 PAGE 07

BLK	Black (Standard)
B-BLK	Black with Baffle
WHT	White
B-WHT	White with Baffle
CST	Custom Colour ³
B-CST	Custom Colour with Baffle ³

■ WIRING CONFIGURATION PAGE 08

WR2.10S	Wire 2+1 Core One Side
WR2.1BS	Wire 2+1 Core Both Sides
CBL2.1OS	Cable 2+1 Core One Side
OC2.1MO	Connector 2+1 pin Male Only
OC2.1MF	Connector 2+1 pin Male + Female
LC2.1MO	Locking Connector 2+1 pin Male Only
LC2.1MF	Locking Connector 2+1 pin Male + Female
SMPLC.1	Sample Type Connector 2.5mm

■ WIRING POSITION PAGE 09

WB	Wire from Back 4
WS	Wire from Side

■ WIRING LENGTH PAGE 09

100	100mm
250	250mm
3000	3,000mm ⁵

■ IP RATING PAGE 09

IP40 Indoor Use

- Other CCT subject to availability.
- ² Custom colours available on request.
- 3 End caps available in black or white only.
- 4 Wiring from the back only available for CBL2.1OS
- 5 3000mm wiring length only available for CBL2.1OS



ACCESSORIES

	PRODUCT CODE	DESCRIPTION
MOUNTING		
	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 Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.

SUSPENSION KIT ²



MSK-STR-SUSKIT_0-1.5M-BLK	Kit for fixtures ranging from 0m – 1.5m. (2 wires included)
MSK-STR-SUSKIT_1.6-2.5M-BLK	Kit for fixtures ranging from 1.6m – 2.5m. (3 wires included)
 MSK-STR-SUSKIT 2.6-3.5M-BLK	Kit for fixtures ranging from 2.6m – 3.5m. (4 wires included)

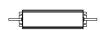
² Solid Rod Suspension Kit available on request.

CONTROLLER



CTR-A2PWM 0-10V	Analogue to PWM converter for 0 – 10V dimming signal
CTR-DIMMERI OGIC	Coolon Universal Wall Dimmer
CTA-DIMINIENLOGIC	with 0 - 10V and PWM Logic Output
CTR-DALI-LOGIC	Indoor DALI Point 1 channel Driver
CTR-DALI-LOGIC	with PWM Logic Output
CTR-DALII OGIC-IP	Outdoor DALI Point 1 channel Driver
GTR-DALILUGIG-IP	with PWM Logic Output

POWER SUPPLY FOR INDOOR 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

