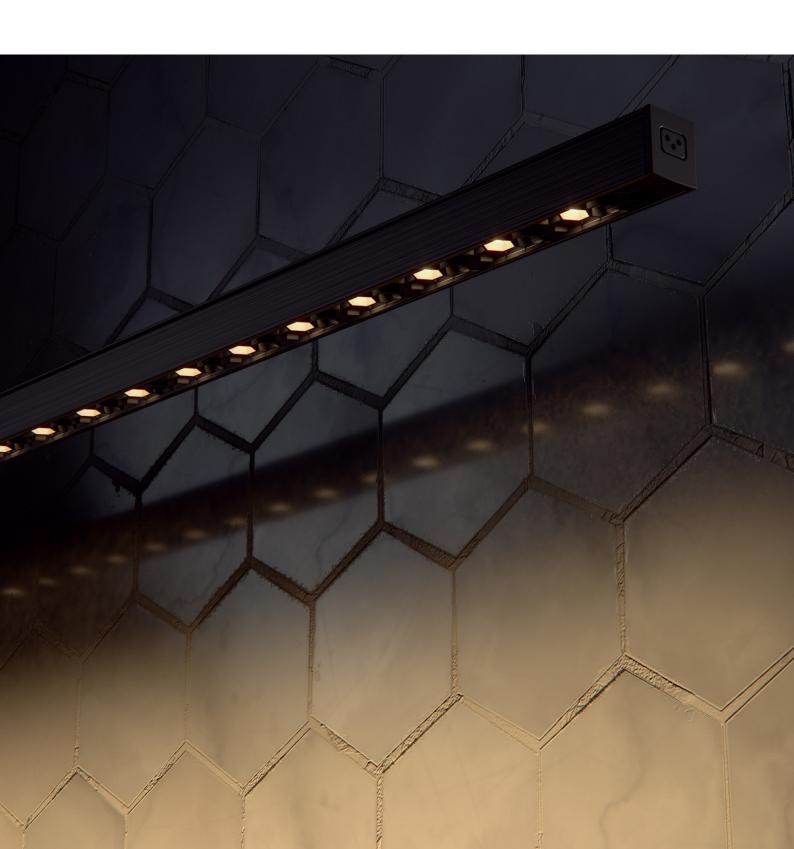


# RATIO LED STRIP STR-RATIO





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.



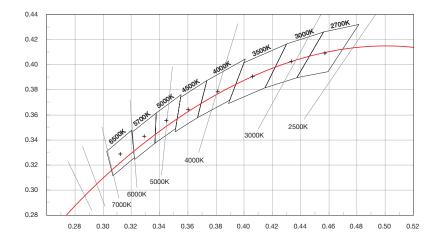
# PROUDLY MADE IN AUSTRALIA

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-DALILOGIC 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 <sub>f</sub> = 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 (Page 09)	

#### COLOUR BINNING



#### LUMEN / METRE MATRIX

POWER	LUMINOUS FLUX			
<b>11W</b> 11W / metre	2700K CRI	20001/ CDI	OFOOK ODI	4000K CDI
LL Profile (30D Optics)	2700K CRI	3000K CRI	3500K CRI	4000K CRI
Profile (SUD 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		NM	1,081 lm / metre
LL Profile (50D Optics)	1,104 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



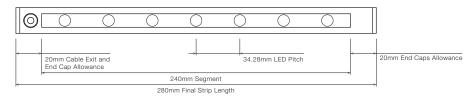
<sup>&</sup>lt;sup>1</sup> Extrapolated lumen output per metre.

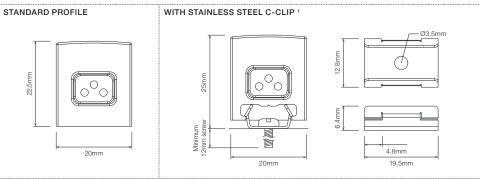
 $<sup>^{\</sup>mathbf{2}}$  Lumen values apply to black and white profile colours.

<sup>🗶 :</sup> CCT / Profile combination NOT AVAILABLE NM : Lumen output NOT MEASURED

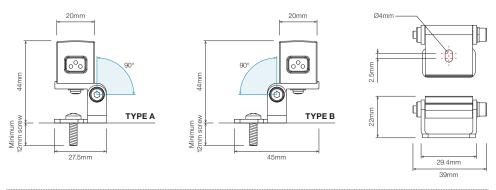
#### DIMENSIONS

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





#### ROTATING MOUNTING BRACKET, TYPE A/B ROTATING CLIP 1



#### WITH SUSPENSION KIT





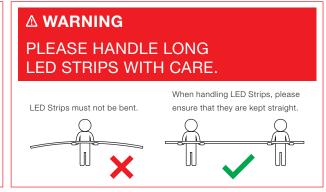
<sup>1</sup> Recommended spacing between Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.

#### 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

<sup>&</sup>lt;sup>1</sup> 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 A7030D Asymmetric Beam Asymmetric 70° x 30° Beam Angle

# DIFFUSER / LOUVRE





#### PROFILE COLOUR

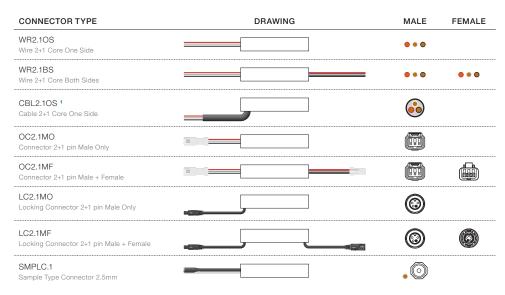






<sup>1</sup> Custom colours available on request.

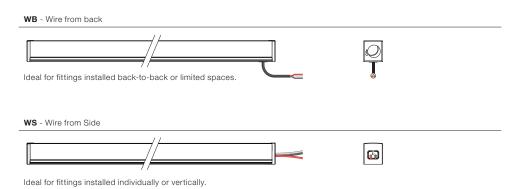
#### WIRING CONFIGURATION



- 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.
- <sup>1</sup> Cable from one side (CBL2.1OS) is available as Wire from Back (WB) with Suspension Kit.

WIRING COLOUR CODE	
Red	+ VDC
Black	GND
White	PWM Control

#### WIRING POSITION

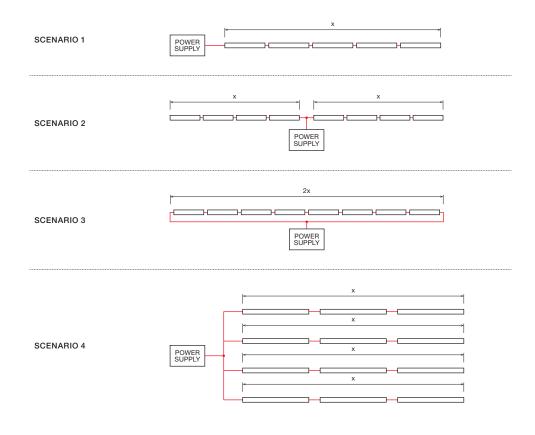


#### IP RATING



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)

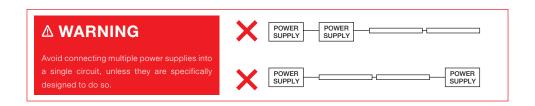
• Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

#### 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 (CBI 2.10S)

• 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

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

#### ■ 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
A7030D	Asymmetric 70° x 30° Beam

#### ■ PROFILE / LOUVRE PAGE 07

LL	Longitudinal Louvre
HL	Honeycomb Louvre

#### ■ PROFILE COLOUR 2 PAGE 07

BLK	Black (Standard)
WHT	White
CST	Custom Colour <sup>3</sup>

#### ■ 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 <sup>4</sup>
WS	Wire from Side

#### ■ WIRING LENGTH PAGE 09

100	100mm
250	250mm
3000	3 000mm <sup>5</sup>

#### ■ IP RATING PAGE 09

1140 1114001 056	IP40	Indoor	Use
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- Other CCT subject to availability.
- <sup>2</sup> 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

<sup>&</sup>lt;sup>1</sup> Recommended spacing between Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.

#### SUSPENSION KIT



MSK-STR-3000-0CG-BLK	Suspension Kit, 3000mm Wire, No Cable Grip, Black
MSK-STR-3000-1CG-BLK	Suspension Kit, 3000mm Wire, 1 Cable Grip, Black
MSK-STR-3000-2CG-BLK	Suspension Kit, 3000mm Wire, 2 Cable Grips, Black

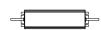
<sup>&</sup>lt;sup>2</sup> Minimum of 2 suspensions required per fitting or maximum of 3 per long fitting

#### 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
CTR-DALILOGIC-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-HI G-320H-24AU	Mean Well Power Supply HLG 320W 24V IP67