COOLON
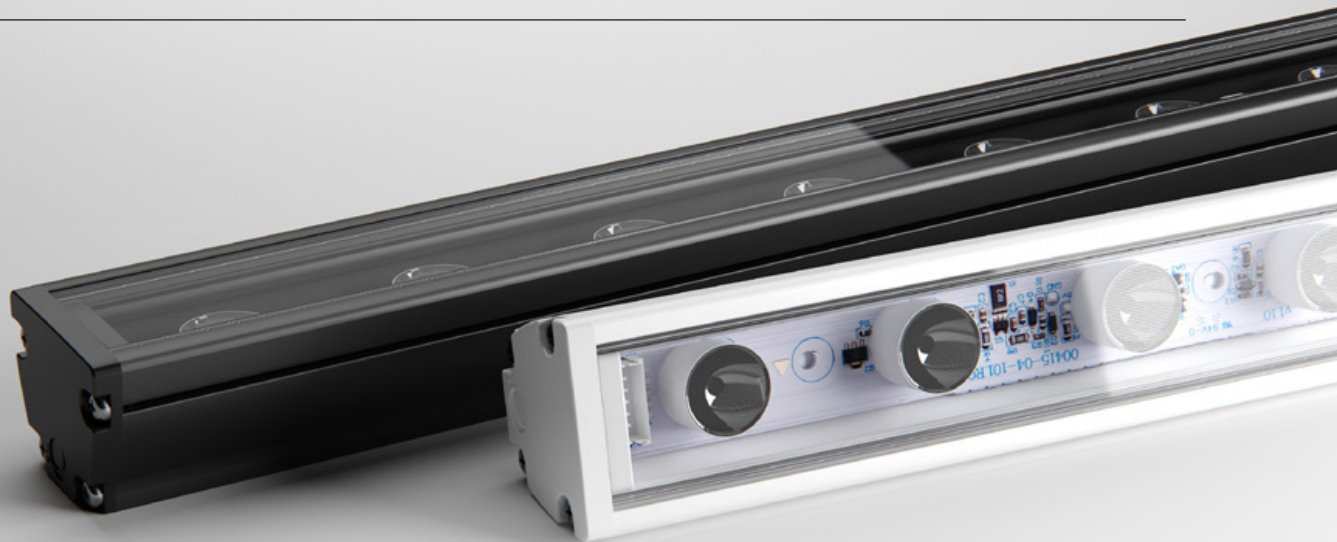
MAX MINI

Max Mini is a medium-power luminaire with precision optics - available in a range of colour temperatures.

Optic selection and the assistance of a range of brackets ensure easy installation and accurate aiming, allowing you to execute your design with accurate results.

POWER | **LUMINOUS FLUX**

33W
33W / metre

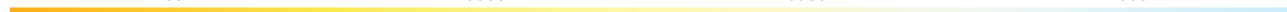**SC** · 1,600 lm / metre **HL** **ML**

COLOUR TEMPERATURE

2700K 3000K 3500K 4000K

COMPACT SIZE

The reduced profile dimensions allow for ease of installation in confined spaces that could not be achieved with previous halogen counterparts. When installed in visible sight, Max Mini also pays respect to the interior design with minimal disruption to the aesthetics.

30mm

OPTICAL VARIATIONS

Max Mini comes in a range of optical variations, offering the ability to maximise performance in each unique application.

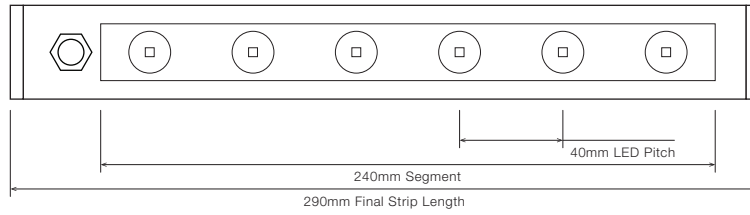| **L90**		**5** YEARS	
LONG OPERATING LIFE	VARIOUS CCT & COLOUR BINNING CONSISTENCY	5 YEARS WARRANTY	PROUDLY MADE IN AUSTRALIA
Coolon products use the world's most reputable LED manufacturers and the latest available standards to adequately report lumen maintenance. We strive to drive LEDs under their nominal current and use state-of-the-art heat dissipation methods, leading to durable electronics	All products are offered in various colour temperatures, and manufactured using tighter bins, ensuring excellent consistency and uniformity.	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.	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

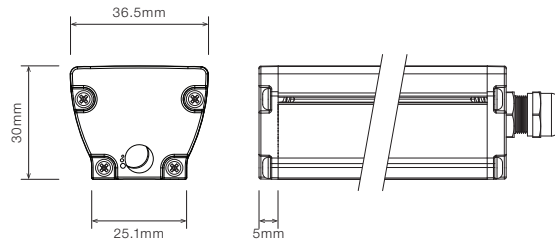|	
Product Code	LNR-MAX MINI
Description	Max Mini Linear Medium Power Projector
Body	Aluminium Alloy Body
Finish	Powder Coated Black (Standard), Various Colours Available
Cover	Polycarbonate Clear for Indoor Applications
End Caps	Polycarbonate
Segment Length (S)	240mm
Segment Width	22mm
LED Pitch	40mm
LEDs Per Segment	6
Operating Voltage	24VDC
Typical Power Consumption per Segment	7.92W per 240mm Segment
Typical Power Consumption per metre	33.0W per metre
Typical Current	330mA per 240mm Segment
Colour Rendering Index (CRI)	90+
Dimmable	Through CTR-A2PWM 0-10V, CTR-DIMMERLOGIC, CTR-DALILOGIC or CTR-DALILOGIC-IP (sold separately)
Luminous Flux per Metre (lm/m)	1600lm/metre
External Heatsink Required	No
Ambient Operating Temp	Ta -10°C to 50°C
Thermal Operating	Yes (Active)
Reported Lumen Maintenance TM21-11 (@ Ts = 85°C, I_f = 500mA)	L70 (18K) > 109,000 hours L90 (18K) > 103,000 hours Max Mini max. operating values (@ Ts = 50°C, I_f = 325mA)
IP Rating	IP40 (Standard)
Max Continuous Connection Length	Please refer to installation limitations

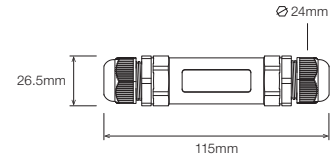## ▪ COLOUR BINNING
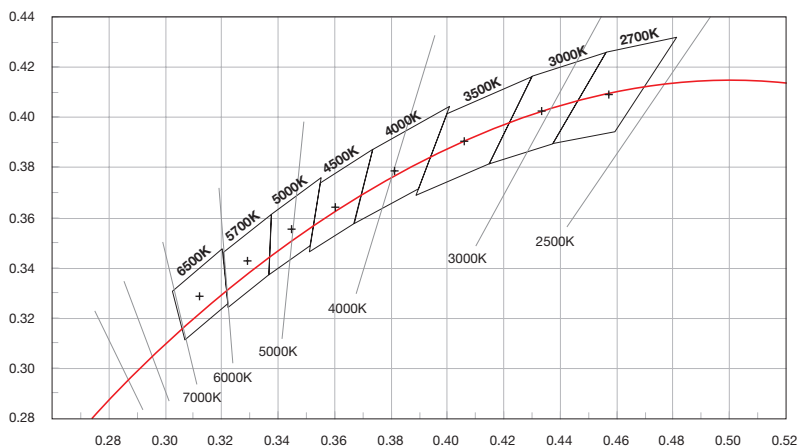
▪ DIMENSIONS

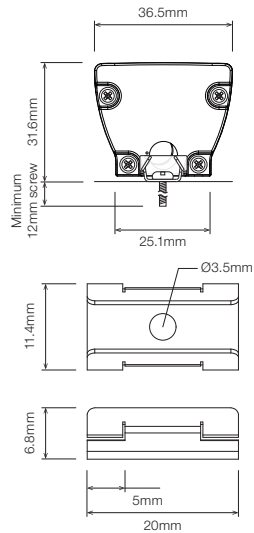For final strip lengths please refer to the "Product Length" table.

40mm LED Pitch

240mm Segment

290mm Final Strip Length

STANDARD PROFILE

36.5mm

30mm

25.1mm

5mm

CABLE EXTENSION JOINER

⌀ 24mm

26.5mm

115mm

STAINLESS STEEL C-CLIP [1]

36.5mm

31.6mm

Minimum 12mm screw

25.1mm

⌀3.5mm

11.4mm

6.8mm

5mm

20mm

ROTATING MOUNTING BRACKET, TYPE A/B ROTATING CLIP [1]
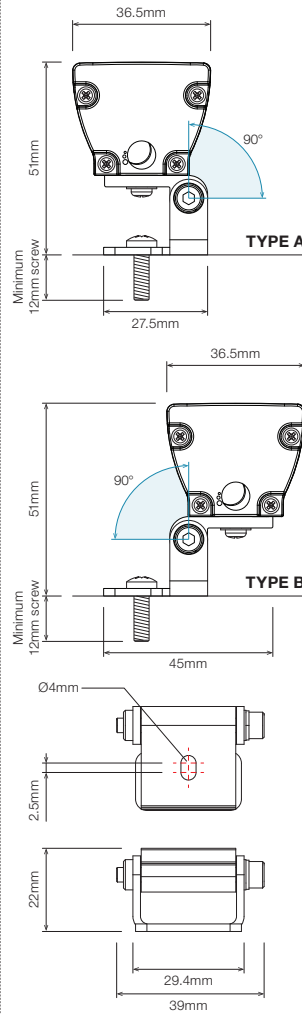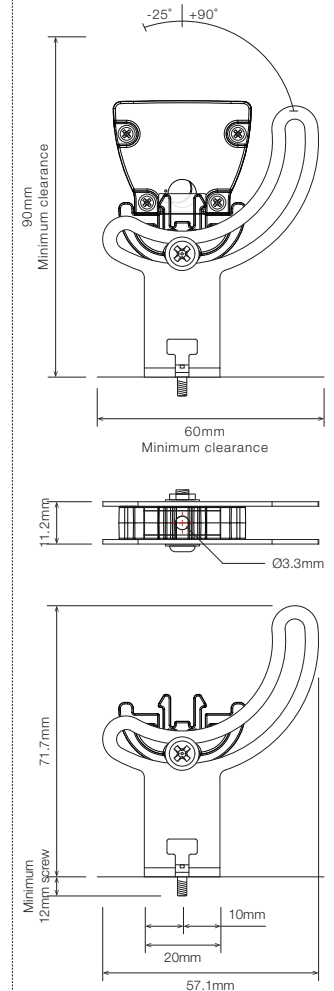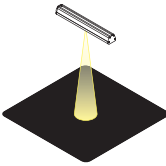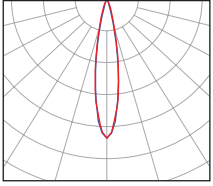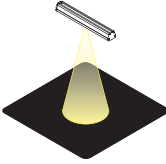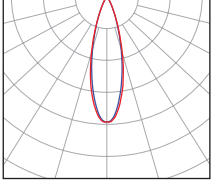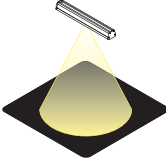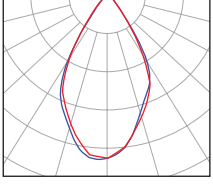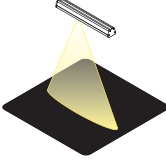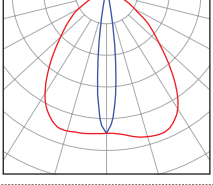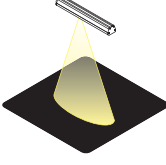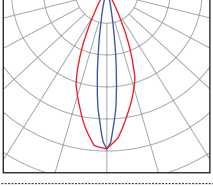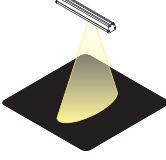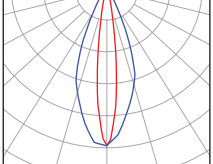
36.5mm

51mm

90°

Minimum 12mm screw

27.5mm

TYPE A

36.5mm

51mm

90°

Minimum 12mm screw

45mm

TYPE B

⌀4mm

2.5mm

22mm

29.4mm

39mm

ELEVATED ROTATING MOUNTING BRACKET [1] [2]

-25° | +90°

90mm Minimum clearance

60mm Minimum clearance

11.2mm

⌀3.3mm

71.7mm

Minimum 12mm screw

10mm

20mm

57.1mm

---

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

[2] Elevated rotating bracket is the only suitable option when wire from back is required.

● COOLON

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▪ PRODUCT LENGTH

FULL SEGMENTS	EXACT STRIP LENGTH	FINAL LENGTH
S1	240mm	290mm
S2	480mm	530mm
S3	720mm	770mm
S4	960mm	1,010mm
S5	1,200mm	1,250mm
S6	1,440mm	1,490mm
S7	1,680mm	1,730mm
S8	1,920mm	1,970mm
S9	2,160mm	2,210mm
S10	2,400mm	2,450mm
S11	2,640mm	2,690mm
S12	2,880mm	2,930mm

▪ POLAR DISTRIBUTION

OPTIC		POLAR DISTRIBUTION
14D Narrow Beam 14° Beam Angle		
30D Medium Beam 30° Beam Angle		
50D Wide Beam 50° Beam Angle		
F10020D Flare Beam Flare 100° x 20° Beam Angle		
O4018D Oval Beam Oval 40° x 18° Beam Angle		
R4018D Oval Rotated Beam Oval 18° x 40° Beam Angle		

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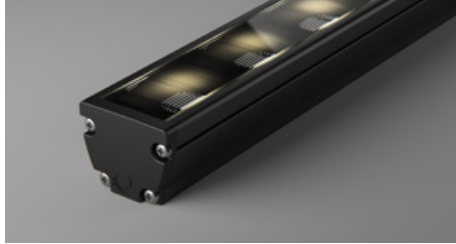
- DIFFUSER

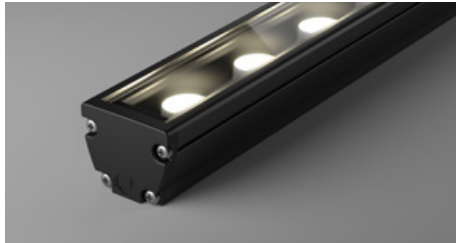**SC** · Standard Clear Cover

HL · Honeycomb Louvre

ML · Micro Louvre

- PROFILE COLOUR

BLK · Black

WHT · White
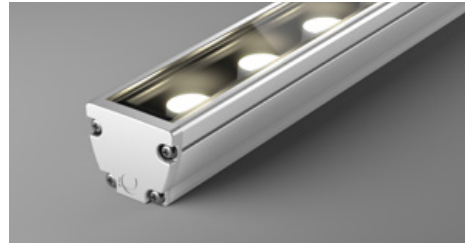
CST · Custom Colour [1]
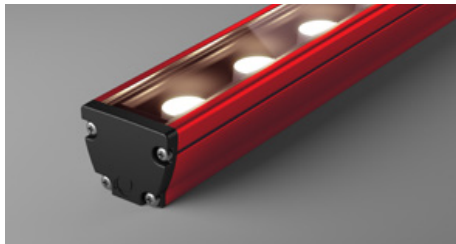
[1] Custom colours available on request

▪ WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	MALE	FEMALE
WR2.1OS Wire 2+1 Core One Side		⦿	
SMPLC.1 Sample Type Connector 2.5mm		◉	

▪ Typical wiring length 1,000mm.

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

WIRING COLOUR CODE	
Red	+ VDC
Black	GND
White	Dimming

▪ WIRING POSITION

WB - Wire from back

Ideal for fittings installed end-to-end or limited spaces.

WS - Wire from Side

Ideal for fittings installed individually or vertically.

▪ IP RATING

IP40

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

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▪ INSTALLATION LIMITS

SCENARIO 1
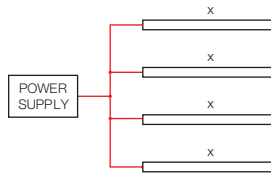
MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
2,930 mm	With standard 2+1 bare wires (WR2.1OS)

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

⚠ **WARNING**

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

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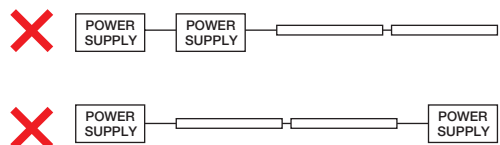
▪ ORDERING EXAMPLE

LNR - MAX MINI - 3.5KCRI - S2 - O4018D - SC - BLK - WR2.1OS - WB - IP40

TYPE
COLOUR TEMPERATURE
NUMBER OF FULL-SEGMENTS
OPTICS
DIFFUSER
PROFILE COLOUR
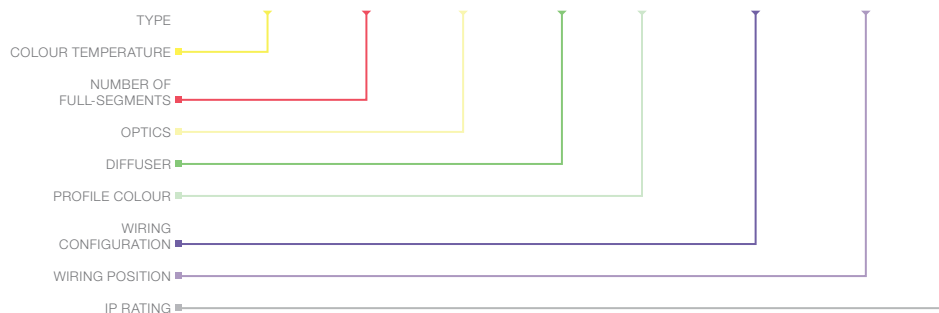WIRING CONFIGURATION
WIRING POSITION
IP RATING

▪ COLOUR TEMPERATURE 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	290mm
S2	530mm
S3	770mm
S4	1010mm
S5	1,250mm
S6	1,490mm
S7	1,730mm
S8	1,970mm
S9	2,210mm
S10	2,450mm
S11	2,690mm
S12	2,930mm

▪ OPTICS PAGE 06

14D	14° Beam
30D	30° Beam
50D	50° Beam
F10020D	Flare 100° x 20° Beam
O4018D	Oval 40° x 18° Beam
R4018D	Oval 18° x 40° Beam

▪ DIFFUSER PAGE 07

SC	Standard Clear
HL	Honeycomb Louvre
ML	Micro Louvre

▪ PROFILE COLOUR PAGE 07

BLK	Black (Standard)
WHT	White
CST	Custom Colour [1]

▪ WIRING CONFIGURATION PAGE 08

WR2.1OS	Wire 2+1 Core One Side
SMPLC.1	Sample Type Connector 2.5mm

▪ WIRING POSITION PAGE 08
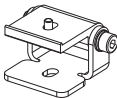
WB	Wire from Back
WS	Wire from Side

▪ IP RATING PAGE 08

IP40	Indoor Use

[1] Custom colours available on request

▪ ACCESSORIES

PRODUCT CODE	DESCRIPTION
MOUNTING [1]	
MC-CCLIP	Stainless Steel C-Clip
MBR-RB-TA-MAX-BLK	Rotating Bracket, TYPE A Rotating Clip - Black
MBR-RB-TB-MAX-BLK	Rotating Bracket, TYPE B Rotating Clip - Black
MBR-PMAX-E-BLK	Elevated Rotating Mounting Bracket for Max Mini - Black
MBR-PMAX-E-WHT	Elevated Rotating Mounting Bracket for Max Mini - White

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

PRODUCT CODE	DESCRIPTION
CONTROLLER	
CTR-A2PWM 0-10V	Analogue to PWM Converter for 0 – 10V Dimming Signal
CTR-DIMMERLOGIC	Coolon Universal Wall Dimmer with 0 – 10V & PWM Logic Output
CTR-DALILOGIC	Indoor DALI Point 1 Channel Driver with PWM Logic Output
CTR-DALILOGIC NEO	Outdoor DALI Point 1 Channel Driver with PWM Logic Output

PRODUCT CODE	DESCRIPTION
POWER SUPPLY FOR OUTDOOR USE	
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-LNR-WR2.1-IP65-3M	3m Length, 3 Core RBW 16AWG Cable Extension with outdoor joiner
CBLEXT-LNR-WR2.1-IP65-5M	5m Length, 3 Core RBW 16AWG Cable Extension with outdoor joiner
CBLEXT-LNR-WR2.1-IP65-10M	10m Length, 3 Core RBW 16AWG Cable Extension with outdoor joiner
CBLEXT-LNR-WR2.1-IP65-20M	20m Length, 3 Core RBW 16AWG Cable Extension with outdoor joiner