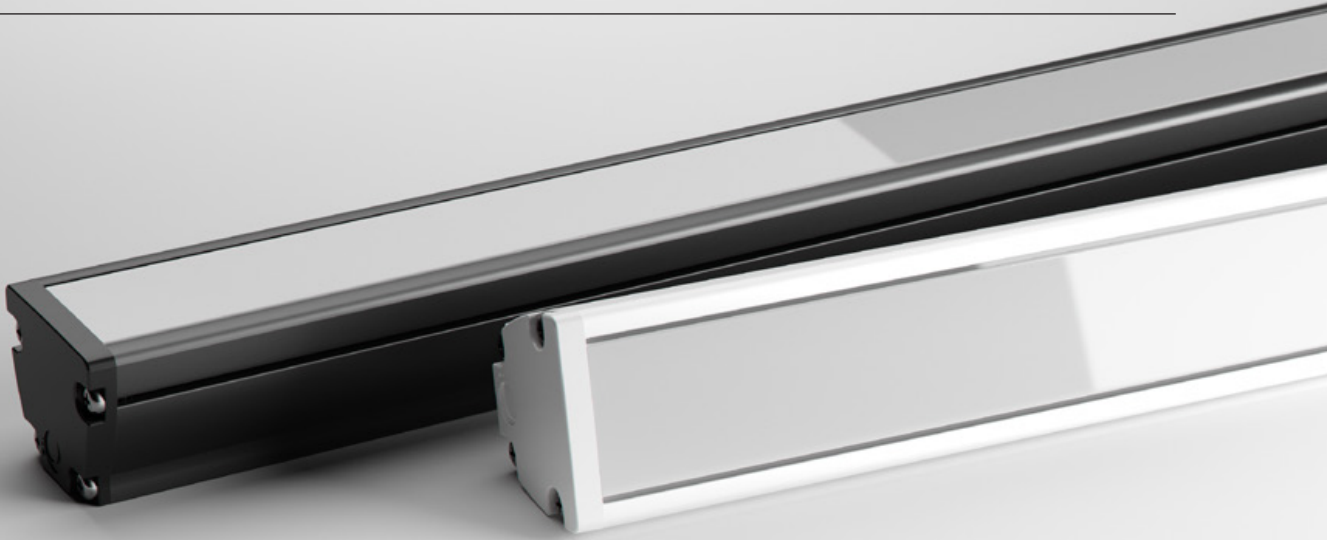# COOLON

MAX MINI RGBW IP

LINEAR MEDIUM POWER LNR-MAX MINI RGBW IP

Max Mini RGBW IP is a compact and versatile RGBW colour changing luminaire designed for outdoor applications.

The profile is fully encapsulated with polyurethane resin for superior longevity in outdoor environments and appears completely uniform.

| POWER	LUMINOUS FLUX
40W 38.4W / metre	**RGBW ·** Varies with colour (900 lm / metre max) *

RGBW FULL COLOUR

* Output for full RGBW brightness

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 RGBW IP also pays respect to the interior design with minimal disruption to the aesthetics.

30mm

ELEGANT ENCAPSULATION

Max Mini RGBW IP utilises Coolon's encapsulation technology and signature build quality to deliver an outdoor luminaire that's uniquely resilient. IP66, IK08, shock and abrasion resistance and thermal protection just add to the appeal of this versatile all-star.

L70
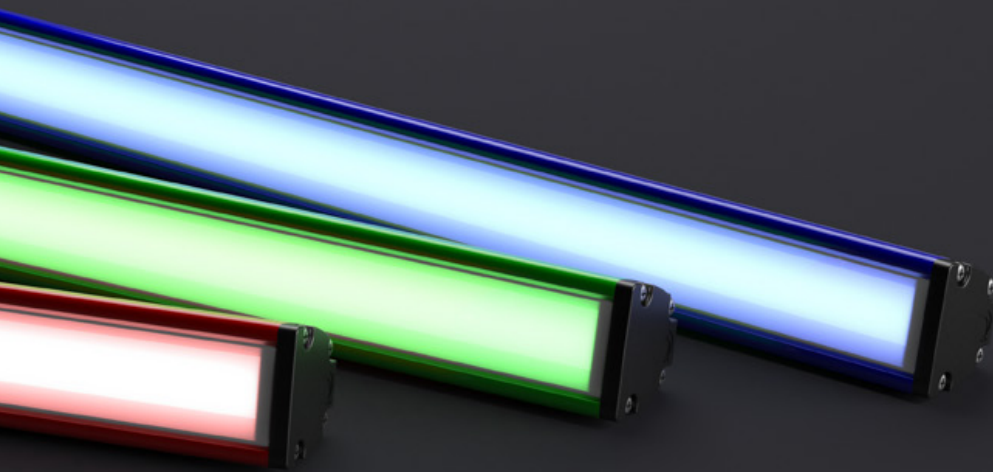
LONG OPERATING LIFE

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

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.
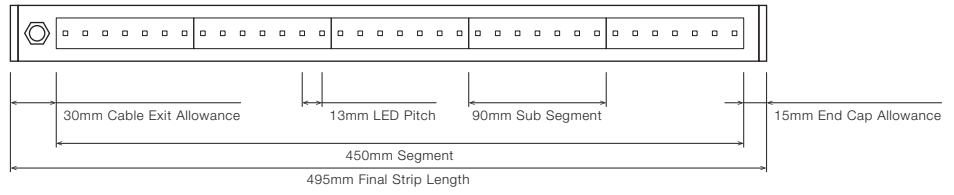
PROUDLY MADE IN AUSTRALIA

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.
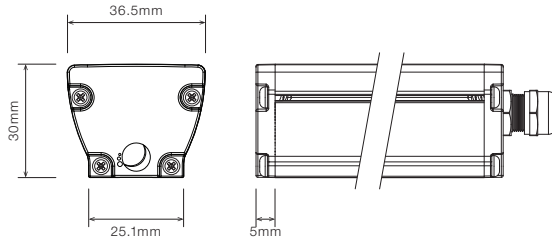
▪ TECHNICAL SPECIFICATIONS

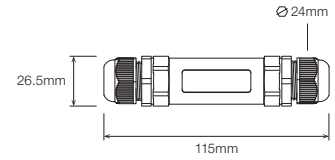|	
Product Code	LNR-MAX MINI RGBW IP
Description	Max Mini RGBW IP Linear Medium Power Projector
Body	Aluminium Alloy Body
Finish	Powder Coated Black (Standard), Various Colours Available
Cover	Polyurethane Translucent for Outdoor Applications
End Caps	Polycarbonate
Segment Length (S)	450mm
Sub-Segment Length (A)	90mm
Number of Sub-Segments	5
LED Pitch	13mm
LEDs Per Sub Segment	7
Operating Voltage	24VDC
Typical Power Consumption per Metre	38.4W per Metre
Typical Current	720mA per 450mm Segment
Colour Rendering Index (CRI)	80+
Dimming / Control	Through DRV-RDM-P4 or RDM-IP-P4 (sold separately)
Luminous Flux per Metre (lm/M)	Varies with colour - 900 lm / metre max (output for full RGBW brightness)
External Heatsink Required	No
Ambient Operating Temp	Ta -10°C to 40°C
Thermal Protection	Yes
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours
IP Rating	IP66 (Standard)
IK Rating	IK08
Max Continuous Connection Length	Please refer to installation limitations

COOLON

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All documentation is subject to change without notice. Refer to our website for the latest information.   Page 4

▪ DIMENSIONS

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

30mm Cable Exit Allowance	13mm LED Pitch
90mm Sub Segment	15mm End Cap Allowance

450mm Segment
495mm Final Strip Length

STANDARD PROFILE

36.5mm
30mm
25.1mm
5mm

CABLE EXTENSION JOINER

Ø 24mm
26.5mm
115mm

STAINLESS STEEL C-CLIP [1]

36.5mm
31.6mm
Minimum 12mm screw
25.1mm

Ø3.5mm
11.4mm
6.8mm
5mm
20mm
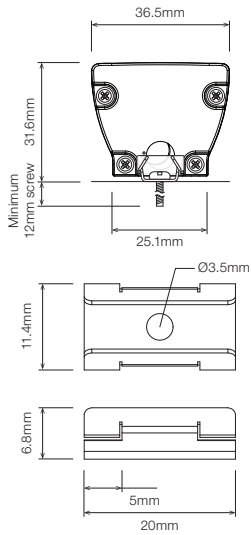
ROTATING MOUNTING BRACKET, TYPE A/B ROTATING CLIP [1]
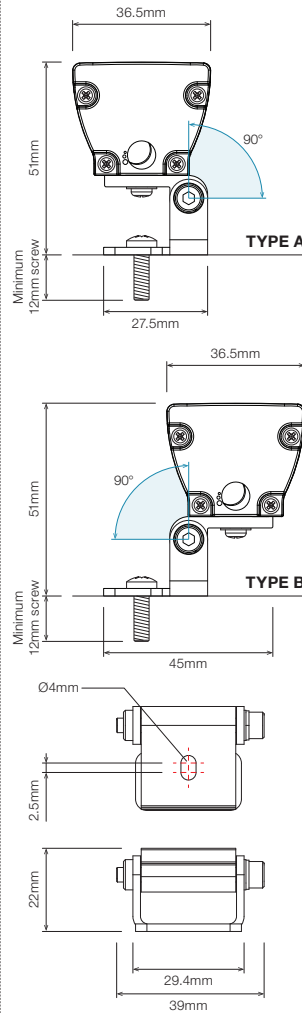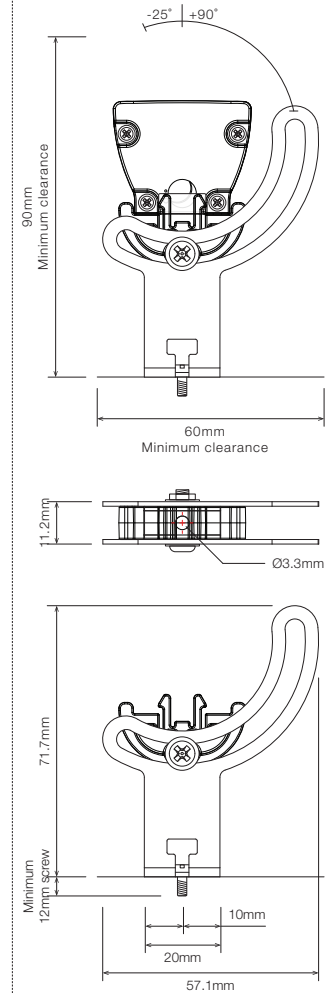
36.5mm
51mm
90°
TYPE A
Minimum 12mm screw
27.5mm

36.5mm
51mm
90°
TYPE B
Minimum 12mm screw
45mm

Ø4mm
2.5mm
22mm
29.4mm
39mm

ELEVATED ROTATING MOUNTING BRACKET [1] [2]

-25° +90°
90mm Minimum clearance
60mm Minimum clearance

11.2mm
Ø3.3mm

71.7mm
Minimum 12mm screw
10mm
20mm
57.1mm

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[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.

• PRODUCT LENGTH

| FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	FINAL LENGTH
S0	A1	90mm	135mm
S0	A2	180mm	225mm
S0	A3	270mm	315mm
S0	A4	360mm	405mm
S1	A0	450mm	495mm
S1	A1	540mm	585mm
S1	A2	630mm	675mm
S1	A3	720mm	765mm
S1	A4	810mm	855mm
S2	A0	900mm	945mm
S2	A1	990mm	1,035mm
S2	A2	1,080mm	1,125mm
S2	A3	1,170mm	1,215mm
S2	A4	1,260mm	1,305mm
S3	A0	1,350mm	1,395mm
S3	A1	1,440mm	1,485mm
S3	A2	1,530mm	1,575mm
S3	A3	1,620mm	1,665mm
S3	A4	1,710mm	1,755mm
S4	A0	1,800mm	1,845mm
S4	A1	1,890mm	1,935mm
S4	A2	1,980mm	2,025mm
S4	A3	2,070mm	2,115mm
S4	A4	2,160mm	2,205mm
S5	A0	2,250mm	2,295mm
S5	A1	2,340mm	2,385mm
S5	A2	2,430mm	2,475mm
S5	A3	2,520mm	2,565mm
S5	A4	2,610mm	2,655mm
S6	A0	2,700mm	2,745mm
S6	A1	2,790mm	2,835mm
S6	A2	2,880mm	2,925mm

▪ DIFFUSER

PT · Polyurethane Translucent - Uniform Glow
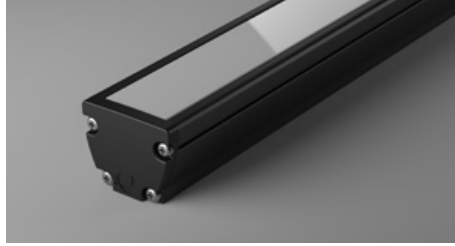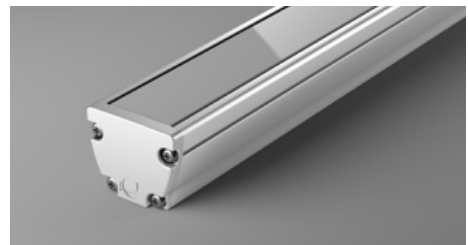

▪ PROFILE
COLOUR

BLK · Black
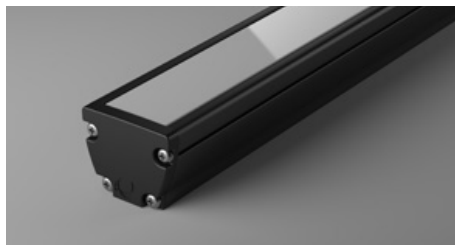
WHT · White

CST · Custom Colour ³

¹   Custom colours available on request

▪ WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	MALE	FEMALE
OC6MO Outdoor Connector 6 pin Male Only			

▪ Typical wiring length 1,000mm with cable's outer diameter 5.8mm

▪ Supplied with mating connector and 3,000mm cable

▪ Please consult Coolon for details on extension cables between LED fittings, drivers and PSUs.

WIRING COLOUR CODE	
Orange / Yellow	+ VDC
Red	- RED
Green	- GREEN
Blue	- BLUE
White	- WHITE

▪ WIRING POSITION

WB - Wire from back

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

WS - Wire from Side

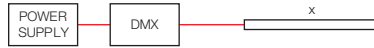Ideal for fittings installed individually or vertically.

▪ IP RATING

IP66

Fully protected against dust.
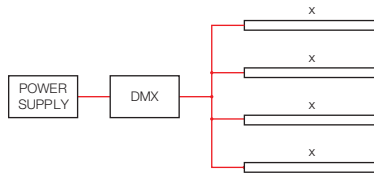Protected against wave-like
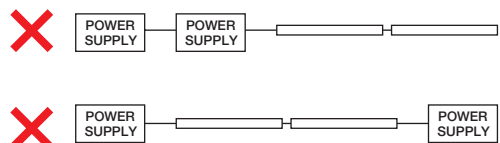water jets from all directions.

▪ INSTALLATION LIMITS

SCENARIO 1

| POWER SUPPLY | DMX | x |

SCENARIO 2

POWER SUPPLY	DMX	x
		x
		x
		x

MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
3,000 mm	With standard outdoor 6 pin connectors (OC6MO)

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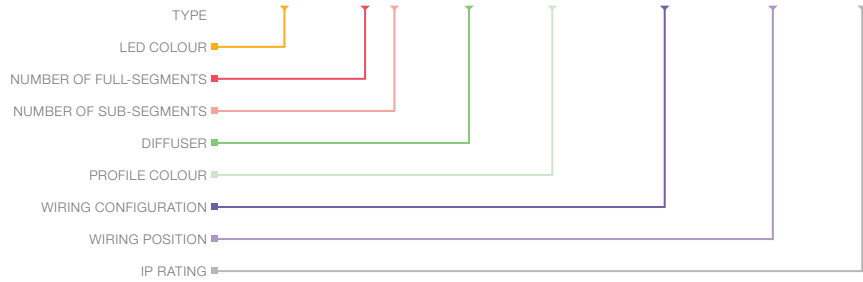
⚠ **WARNING**

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

❌ | POWER SUPPLY | POWER SUPPLY |

❌ | POWER SUPPLY | | POWER SUPPLY |

■ ORDERING
EXAMPLE

LNR - MAX MINI RGBW IP - WW - S2A0 - PT - BLK - OC6MO - WB - IP66

TYPE
LED COLOUR
NUMBER OF FULL-SEGMENTS
NUMBER OF SUB-SEGMENTS
DIFFUSER
PROFILE COLOUR
WIRING CONFIGURATION
WIRING POSITION
IP RATING

■ **LED COLOUR**

WW	RGB + Warm White
CW	RGB + Cool White

■ **PRODUCT LENGTH** PAGE 06

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

■ **DIFFUSER** PAGE 07

PT	Polyurethane Translucent - Uniform Glow

■ **PROFILE COLOUR** PAGE 07

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

■ **WIRING CONFIGURATION** PAGE 08

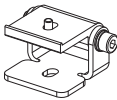| OC6MO	Outdoor Connector 6 pin Male Only

■ **WIRING POSITION** PAGE 08

WB	Wire from Back
WS	Wire from Side

■ **IP RATING** PAGE 08

IP66	Outdoor Use

[1] Custom colours available on request
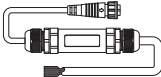
▪ ACCESSORIES

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
DRIVER	
DRV-RDM-P4	DMX / RDM 4 Channel LED Driver
DRV-RDM CV NEO	Neo Outdoor DMX / RDM 4 Channel LED Driver

PRODUCT CODE	DESCRIPTION
POWER SUPPLY	
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

PRODUCT CODE	DESCRIPTION
CABLE EXTENSIONS	
CBL-LNR-OC6FO-DC-L-IP65-3M	3m Length, 6 Core Leader Cable with Outdoor Female Connector and Loose Wires (Type B)
CBL-LNR-OC6FO-DC-L-IP65-5M	5m Lengths, 5 Core Loose Wire Leader Cable with Outdoor Joiner to OC6 Female Connector
CBL-LNR-OC6FO-DC-L-IP65-10M	10m Lengths, 5 Core Loose Wire Leader Cable with Outdoor Joiner to OC6 Female Connector
CBL-LNR-OC6FO-DC-L-IP65-15M	15m Lengths, 5 Core Loose Wire Leader Cable with Outdoor Joiner to OC6 Female Connector
CBL-LNR-OC6FO-DC-L-IP65-20M	20m Lengths, 5 Core Loose Wire Leader Cable with Outdoor Joiner to OC6 Female Connector