COOLON

ELECTRO

LINEAR MEDIUM POWER LNR-ELECTRO

The Electro utilises the most efficient LEDs available today and is available in a broad range of lengths and colour temperatures. The Electro is designed to be as compact as possible while still achieving a completely uniform glowing diffuser.

Suitable for both indoor and outdoor applications, the Electro can be either surface mounted (using the discrete C-Clip) or suspended.
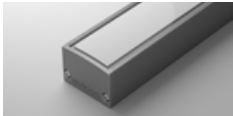
Available in 25W per metre, the Electro can be powder coated to suit, and is complemented by a highly robust polycarbonate diffuser for outdoor applications where vandal resistance is paramount.

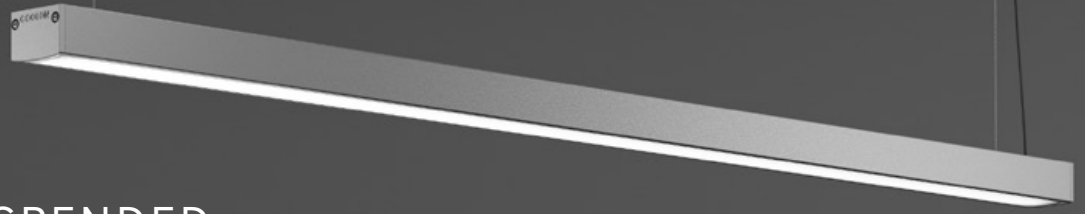| POWER	LUMINOUS FLUX
25W 25W / metre	 **SD** · 800 lm / metre

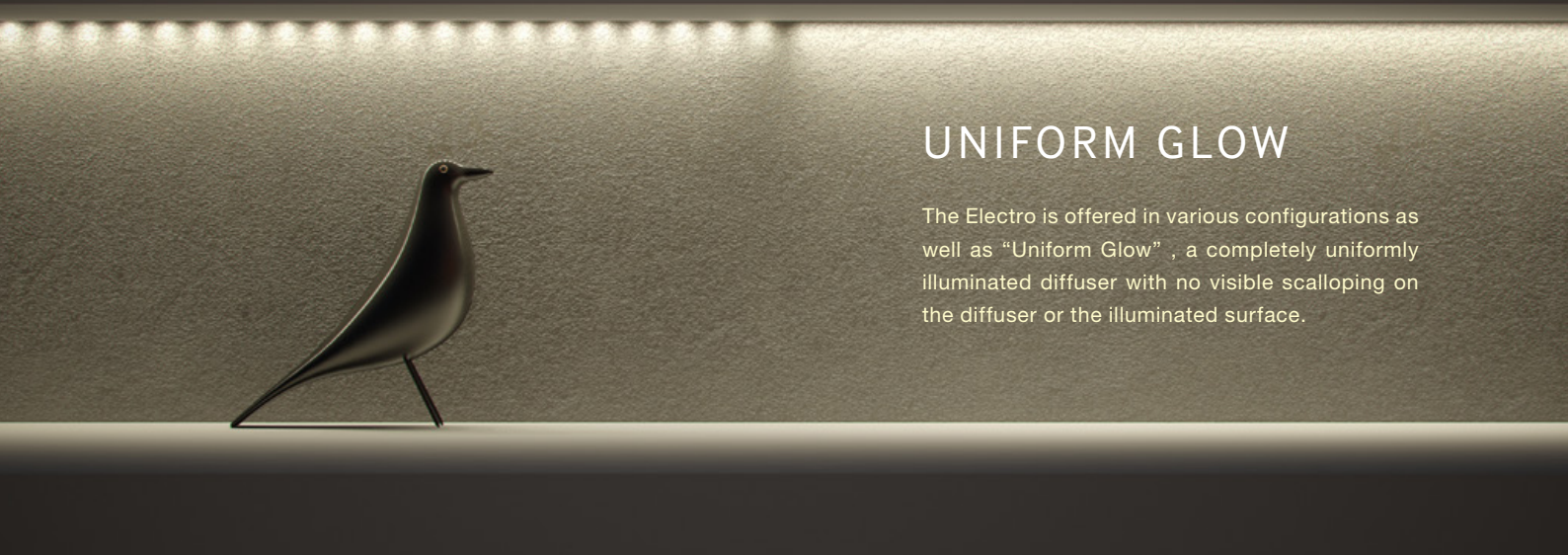**COLOUR TEMPERATURE**

2700K	3000K	3500K	4000K

ELECTRO SUSPENDED

The Electro is extremely versatile luminaire suitable for both indoor and outdoor applications. The Electro can be surface mounted using Coolon's C-Clip and available in a suspended version.

UNIFORM GLOW

The Electro is offered in various configurations as well as "Uniform Glow" , a completely uniformly illuminated diffuser with no visible scalloping on the diffuser or the illuminated surface.

L70

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.

VARIOUS CCT & COLOUR BINNING CONSISTENCY

Product is offered in various Colour Temperatures using tighter bins.

3 YEARS

3 YEARS FULL /SOLID WARRANTY

Coolon Luminaires are covered by a solid comprehensible 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.

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▪ TECHNICAL SPECIFICATIONS

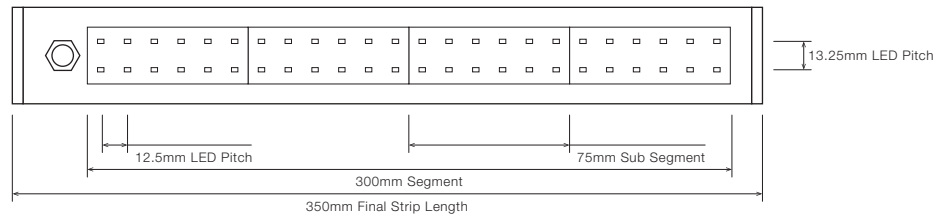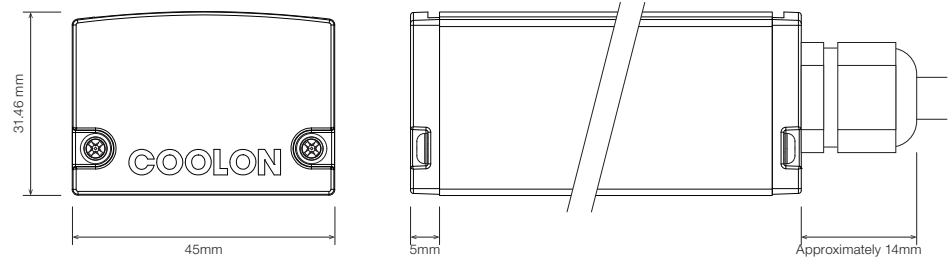|	
Product Code	LNR-ELECTRO
Description	Electro Linear Medium Power
Body	Aluminium Alloy Body
Finish	Brushed Natural Aluminium (Standard), Various Colours Available
Cover	Polycarbonate (PC) Diffused
End Caps	Polycarbonate (PC)
Segment Length (S)	300mm
Sub-Segment Length (A)	75mm
Number of Sub-Segments	4
Segment Width	26.5mm
LED Pitch	12.5mm (W) x 13.25mm (H)
LEDs Per Segment	48
LEDs Per Sub Segment	12
Operating Voltage	42VDC
Typical Power Consumption per Segment	7.5W per 300mm Segment
Typical Power Consumption per Metre	25W per Metre
Typical Current	215mA per 300mm Segment
Colour Rendering Index (CRI)	80+
Dimmable	Through CTR-DALILOGIC or CTR-DIMMERLOGIC (sold separately)
Luminous Flux per Metre (lm/M)	800lm/Metre
External Heatsink Required	No
Ambient Operating Temp	Ta -20°C to 50°C
Thermal Operating	Yes (Active)
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours
IP Rating	IP40 (Standard), up to IP65
Max Continuous Connection Length	Please refer to installation limitations

▪ COLOUR BINNING

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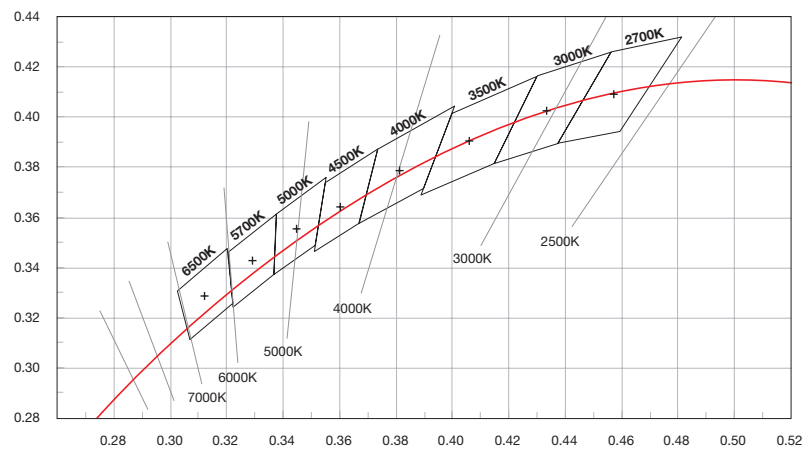
▪ DIMENSIONS

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

13.25mm LED Pitch

12.5mm LED Pitch

75mm Sub Segment

300mm Segment

350mm Final Strip Length

STANDARD PROFILE

31.46 mm

45mm

5mm

Approximately 14mm

STAINLESS STEEL C-CLIP

Clips are required for every 300mm length of luminaire.

33.75 mm

Minimum 12mm screw

45mm

Ø3.5mm

11.4mm

6.8mm

5mm

20mm

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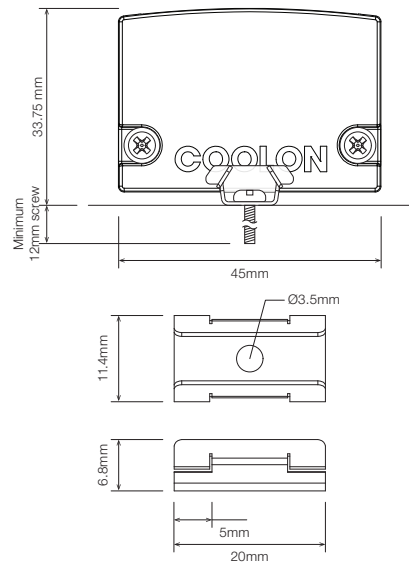
▪ PRODUCT
LENGTH

FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	FINAL LENGTH
S0	A1	75mm	125mm
S0	A2	150mm	200mm
S0	A3	225mm	275mm
S1	A0	300mm	350mm
S1	A1	375mm	425mm
S1	A2	450mm	500mm
S1	A3	525mm	575mm
S2	A0	600mm	650mm
S2	A1	675mm	725mm
S2	A2	750mm	800mm
S2	A3	825mm	875mm
S3	A0	900mm	959mm
S3	A1	975mm	1,025mm
S3	A2	1,050mm	1,100mm
S3	A3	1,125mm	1,175mm
S4	A0	1,200mm	1,250mm
S4	A1	1,275mm	1,325mm
S4	A2	1,350mm	1,400mm
S4	A3	1,425mm	1,475mm
S5	A0	1,500mm	1,550mm
S5	A1	1,575mm	1,625mm
S5	A2	1,650mm	1,700mm
S5	A3	1,725mm	1,775mm
S6	A0	1,800mm	1,850mm
S6	A1	1,875mm	1,925mm
S6	A2	1,950mm	2,000mm
S6	A3	2,025mm	2,075mm
S7	A0	2,100mm	2,150mm
S7	A1	2,175mm	2,225mm
S7	A2	2,250mm	2,300mm
S7	A3	2,325mm	2,375mm
S8	A0	2,400mm	2,450mm
S8	A1	2,475mm	2,525mm
S8	A2	2,550mm	2,600mm
S8	A3	2,625mm	2,675mm
S9	A0	2,700mm	2,750mm
S9	A1	2,775mm	2,825mm
S9	A2	2,850mm	2,900mm
S9	A3	2,925mm	2,975mm
S10	A0	3,000mm	3,050mm
S10	A1	3,075mm	3,125mm
S10	A2	3,150mm	3,200mm
S10	A3	3,225mm	3,275mm
S11	A0	3,300mm	3,350mm
S11	A1	3,375mm	3,425mm
S11	A2	3,450mm	3,500mm

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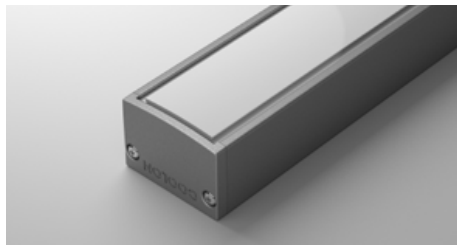
- DIFFUSER

SD · Standard Diffused Cover

- PROFILE
  COLOUR

BNA · Brushed Natural Aluminium (Standard)

BLK · Black

WHT · White
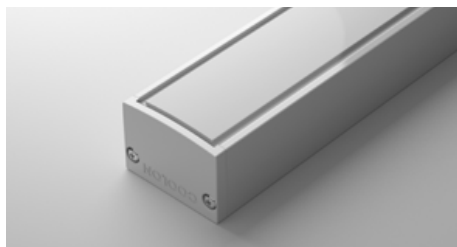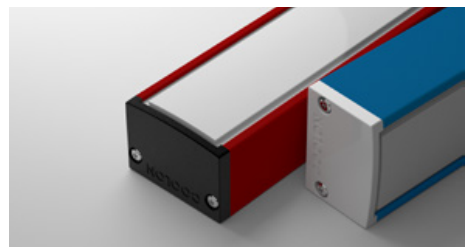
CST · Custom Colour *****

* Custom colours available on request

▪ WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	FEMALE	MALE
WR2.1OS Wire 2+1 Core One Side			
OC2.1MO Outdoor Connector 3pin Male Only			
SMPLC.1 Sample Type Connector 2.5mm			

▪ Typical wiring length 1500mm.

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

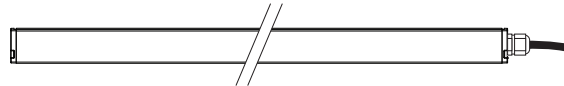| WIRING COLOUR CODE	
Red	+ VDC
Black	GND
White	Dimming

▪ WIRING POSITION

WB - Wire from back

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

WS - Wire from Side

Ideal for fittings installed individually or vertically.
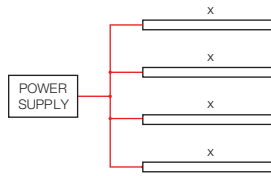
▪ IP RATING

IP40

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

IP65

Fully protected against dust. Protected against water jets from all directions.
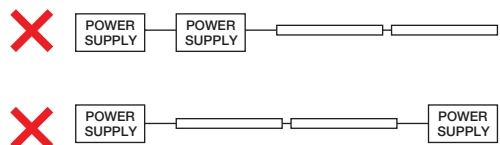
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▪ INSTALLATION LIMITS

SCENARIO 1

MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
3,500 mm	With standard 2+1 bare wires (WR2.1OS)
3,500 mm	With 3 pin connectors (OC2.1MO)

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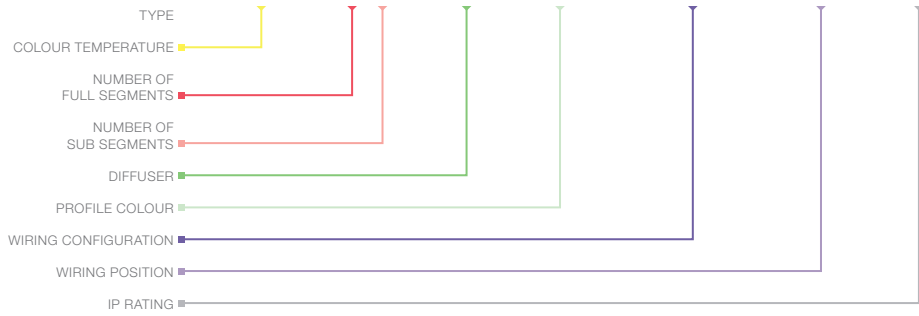
⚠ **WARNING**

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

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◾ ORDERING EXAMPLE

LNR - ELECTRO - 3.5K - S2A1 - SD - BLK - WR2.1OS - WB - IP65

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

◾ COLOUR TEMPERATURE PAGE 04

2.7K	2700K
3.0K	3000K
3.5K	3500K
4.0K	4000K

◾ PRODUCT LENGTH PAGE 06

FULL SEGMENTS	SUB SEGMENTS
S1	A0
S2	A1
S3	A2
S4	A3
S5	
S6	
S7	
S8	
S9	
S10	
S11	

◾ DIFFUSER PAGE 07

SD	Standard Diffused

◾ PROFILE COLOUR PAGE 07

BNA	Brushed Natural Aluminium (Standard)
BLK	Black
WHT	White
CST	Custom Colour *

◾ WIRING CONFIGURATION PAGE 08

WR2.1OS	Wire 2+1 Core One Side
OC2.1MO	Outdoor Connector 2+1 pin Male Only
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
IP65	Outdoor Use

* Custom colours available on request

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▪ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
MOUNTING CLIP		
	MC-C-CLIP	Stainless Steel C-Clip
CONTROLLER		
	CTR-A2PWM 0-10V	Analogue to PWM converter for 0-10V dimming signal
	CTR-DIMMERLOGIC	Coolon Universal Wall Dimmer with 0-10V and PWM Logic Output
	CTR-DALI-LOGIC	Indoor DALI Point 1 channel Driver with PWM Logic Output
	CTR-DALILOGIC-IP	Outdoor DALI Point 1 channel Driver with PWM Logic Output
POWER SUPPLY FOR OUTDOOR USE (IP67)		
	PWR-HLG60-42V-IP	Mean Well Power Supply HLG 60W 42V IP67
	PWR-HLG80-42V-IP	Mean Well Power Supply HLG 80W 42V IP67
	PWR-HLG150-42V-IP	Mean Well Power Supply HLG 150W 42V IP67
	PWR-HLG240-42V-IP	Mean Well Power Supply HLG 240W 42V IP67
	PWR-HLG320-42V-IP	Mean Well Power Supply HLG 320W 42V IP67

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