COOLON

eLi RGBW

LED MODULE LNR-eLi RGBW





eLi RGBW is a modular linear luminaire precisely engineered to follow the fluidity of organic architecture with vibrant, full-colour illumination. It offers independent control of each module, empowering designers to craft highly dynamic effects and intricate lightscapes with pixel-level precision. It delivers consistent, high-quality illumination for challenging exterior applications, combining elegant adaptability with engineering-grade reliability. A range of precision optics and mounting accessories supports accurate beam control for wall washing or grazing.

POWER

20W

20W / metre



PC · 627 – 657 lm / metre

40W

40W / metre



PC · 1,150 – 1,203 lm / metre

White channel output. Colour output varies by channel, see Power & Lumen Output table.

RGBW

CONTROL OPTIONS

DALI 2

DMX

CASAMBI



PEACE OF MIND, BUILT IN

eLi's signature build quality and proven encapsulation technology craft an outdoor solution of unmatched resilience and reliability. Its robustness ensures unwavering performance in the most demanding applications and environments.

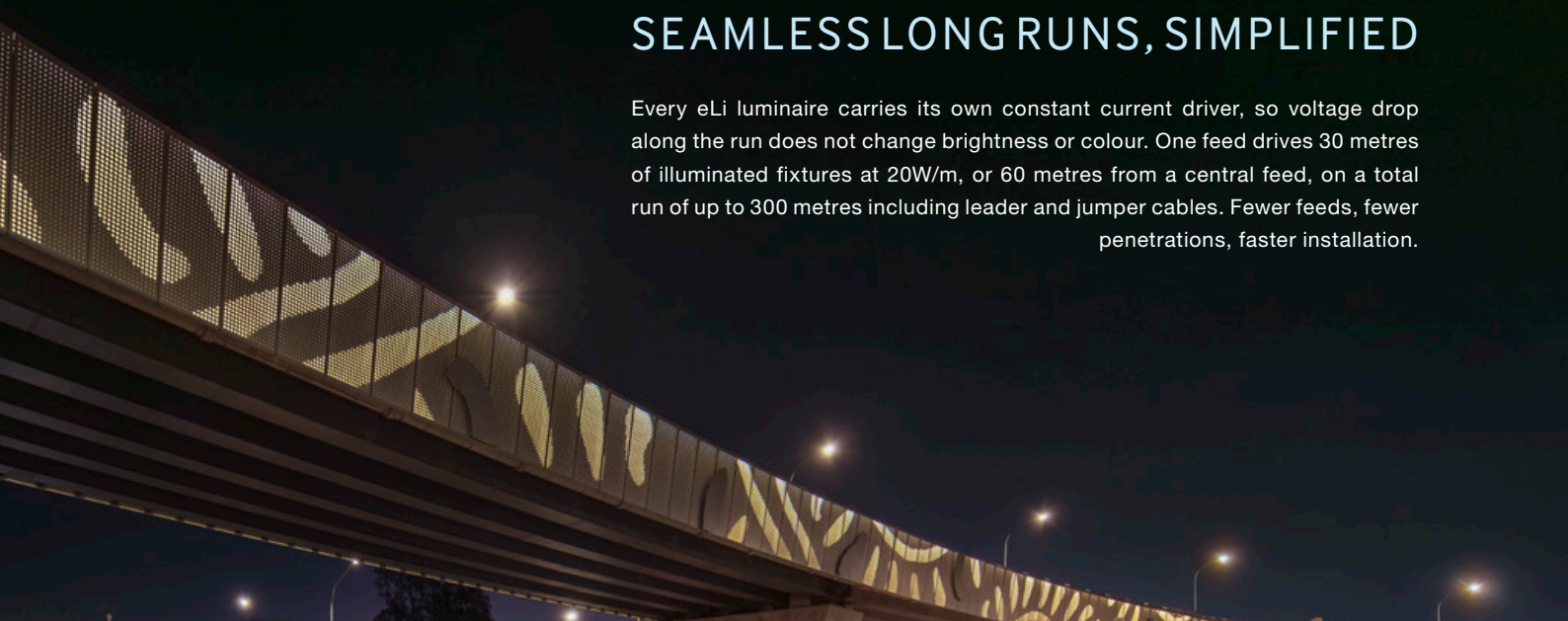
VERSATILITY

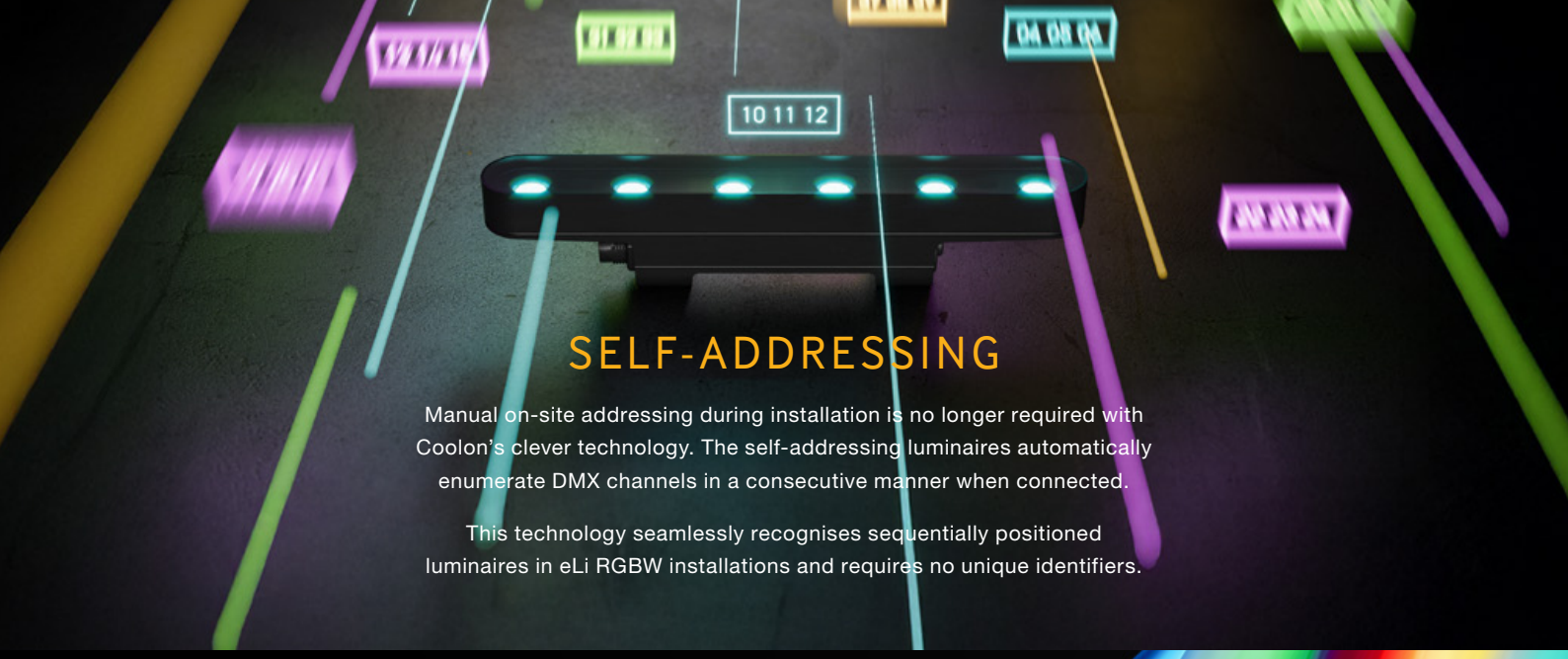
Unlock a spectrum of creative possibilities. eLi RGBW brings vibrant, full-colour illumination with independent module control, empowering highly dynamic effects and intricate lightscapes. Its elegant adaptability extends to a range of precision optics and seamless integration into any architectural form, supported by simple control options.



SEAMLESS LONG RUNS, SIMPLIFIED

Every eLi luminaire carries its own constant current driver, so voltage drop along the run does not change brightness or colour. One feed drives 30 metres of illuminated fixtures at 20W/m, or 60 metres from a central feed, on a total run of up to 300 metres including leader and jumper cables. Fewer feeds, fewer penetrations, faster installation.





SELF-ADDRESSING

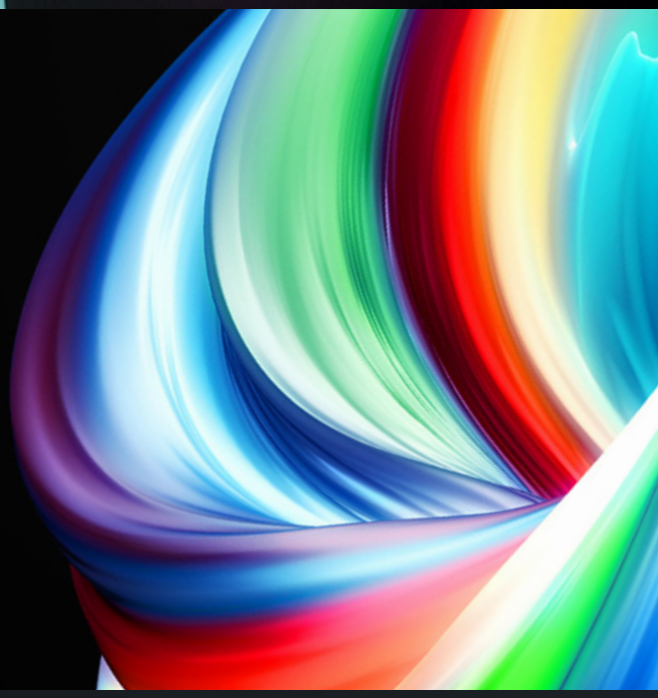
Manual on-site addressing during installation is no longer required with Coolon's clever technology. The self-addressing luminaires automatically enumerate DMX channels in a consecutive manner when connected.

This technology seamlessly recognises sequentially positioned luminaires in eLi RGBW installations and requires no unique identifiers.

MATRIX WHITE

The Matrix White algorithm physically drives RGBW LEDs from an RGB control signal. It does this by calculating when to replace a combination of primary colours (red, green and blue) with a pure white light source. This feature presents users with the following advantages:

- Superior colour rendering and appearance
- Cost savings, as more luminaires can be controlled by each DMX universe (170 RGBW luminaires, versus 128 without Matrix White)
- Utilise dedicated white output instead of relying on additive RGB (dirty) white
- Reduced power consumption, as the LED chip is being utilised effectively



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-eLi RGBW
Description	eLi RGBW Lensed LED Module
Body / Finish	Cast Aluminium, Anodised & Powder Coated (Marine Grade)
Cover	Polyurethane Encapsulation
Product Body Length	298mm
Luminaire Weight	710g
Connector Type	Push-Lock (Tool-less Installation)
LEDs Per Segment	6 x 4 in 1 RGBW quad chip
Lumen Maintenance	L70 > 50,000 Hours
Operating Voltage	24 – 54VDC (Requires SELV power supply)
Typical Power Consumption	6W or 12W per Module at 36V
Typical Power Consumption per metre	20W or 40W at 36V
Electrical Safety Classification	Class III (SELV)
Max. Through Current	20A
Control	DALI-2[1], Self-Addressable DMX (Full Frames) or Casambi through eLi Controller
External Heatsink Required	No
Storage Temperature Range	-20°C to +70°C
Humidity Range	10% to 90% RH, Non-condensing
Ambient Operating Temp	-10°C to 50°C
IP Rating	IP66 / IP67
IK Rating	IK10
Max Continuous Connection Length	Please refer to installation limits (Page 10)

[1] DALI-2 eLi controller uses the Lunatone DALI-2 RGB LED Dimmer DT8 (PN: 86458514).

POWER & LUMEN OUTPUT

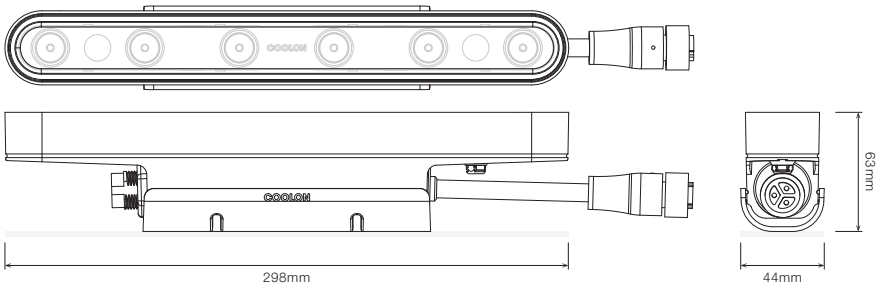
TYPE	POWER	CCT	25D	40D	55D	O4015D
20W	8.3W / metre	Red	350 lm/m	307 lm/m	307 lm/m	310 lm/m
	2.5W / module	Red	105 lm	92 lm	92 lm	93 lm
	9.7W / metre	Green	687 lm/m	643 lm/m	633 lm/m	657 lm/m
	2.9W / module	Green	206 lm	193 lm	190 lm	197 lm
	10.3W / metre	Blue	157 lm/m	120 lm/m	150 lm/m	153 lm/m
	3.1W / module	Blue	47 lm	36 lm	45 lm	46 lm
	10.3W / metre	White	657 lm/m	630 lm/m	627 lm/m	633 lm/m
	3.1W / module	White	197 lm	189 lm	188 lm	190 lm
	18.3W / metre	Cyan	837 lm/m	800 lm/m	790 lm/m	810 lm/m
	5.5W / module	Cyan	251 lm	240 lm	237 lm	243 lm
	17.3W / metre	Magenta	470 lm/m	433 lm/m	440 lm/m	430 lm/m
	5.2W / module	Magenta	141 lm	130 lm	132 lm	129 lm
	16.7W / metre	Yellow	997 lm/m	927 lm/m	913 lm/m	937 lm/m
	5W / module	Yellow	299 lm	278 lm	274 lm	281 lm

			25D	40D	55D	O4015D
40W	16.3W / metre	Red	727 lm/m	637 lm/m	640 lm/m	647 lm/m
	4.9W / module	Red	218 lm	191 lm	192 lm	194 lm
	20W / metre	Green	1130 lm/m	1057 lm/m	1040 lm/m	1077 lm/m
	6W / module	Green	339 lm	317 lm	312 lm	323 lm
	21W / metre	Blue	300 lm/m	293 lm/m	290 lm/m	293 lm/m
	6.3W / module	Blue	90 lm	88 lm	87 lm	88 lm
	21.3W / metre	White	1203 lm/m	1157 lm/m	1150 lm/m	1163 lm/m
	6.4W / module	White	361 lm	347 lm	345 lm	349 lm
	39.3W / metre	Cyan	1380 lm/m	1320 lm/m	1303 lm/m	1337 lm/m
	11.8W / module	Cyan	414 lm	396 lm	391 lm	401 lm
	36W / metre	Magenta	880 lm/m	813 lm/m	823 lm/m	807 lm/m
	10.8W / module	Magenta	264 lm	244 lm	247 lm	242 lm
	34.3W / metre	Yellow	1650 lm/m	1533 lm/m	1513 lm/m	1550 lm/m
	10.3W / module	Yellow	495 lm	460 lm	454 lm	465 lm

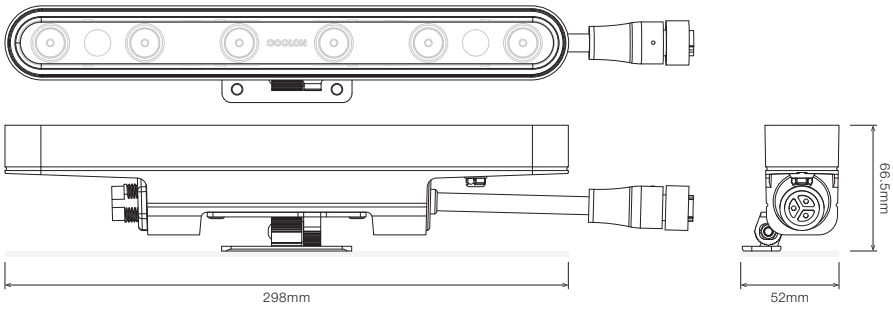
DIMENSIONS

For final run lengths please refer to the “Product Length” table.

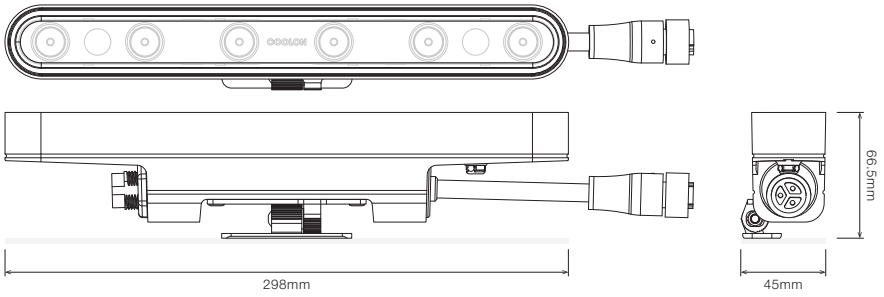
WITH SURFACE MOUNTING BRACKET



WITH ROTATING BRACKET - TYPE A

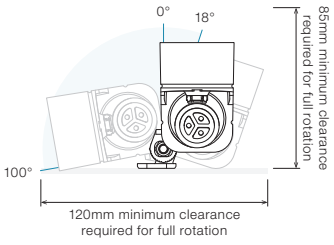


WITH ROTATING BRACKET - TYPE B

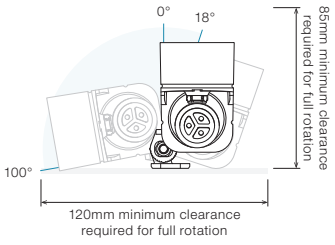


ROTATION WITH ROTATING BRACKET

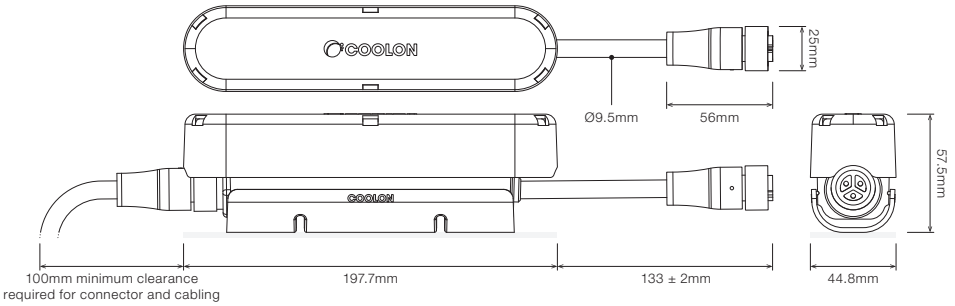
TYPE A



TYPE B



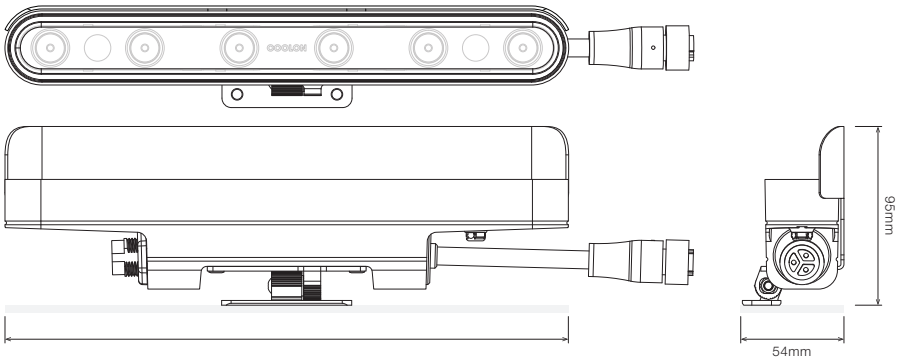
eLi CONTROLLER



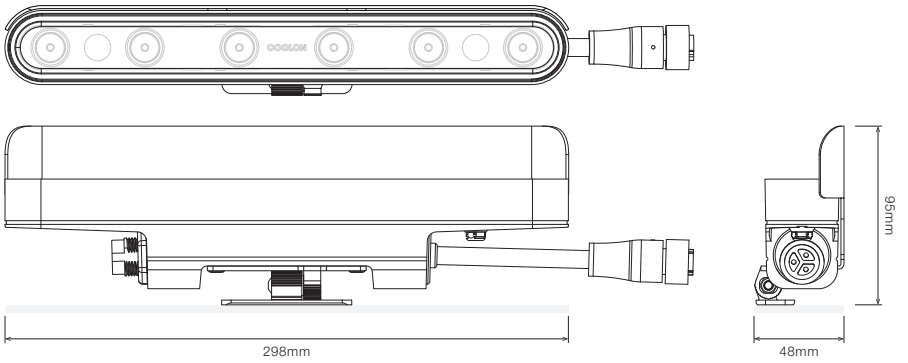
DIMENSIONS

For final run lengths please refer to the “Product Length” table.

WITH ROTATING BRACKET - TYPE A + GLARE SHIELD

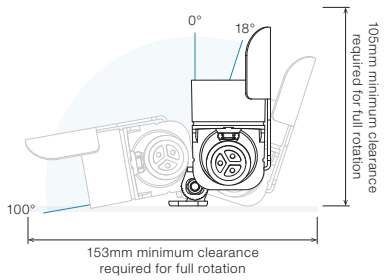


WITH ROTATING BRACKET - TYPE B + GLARE SHIELD

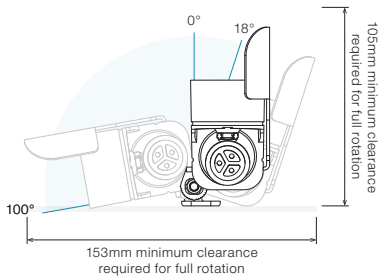


ROTATION WITH ROTATING BRACKET + GLARE SHIELD

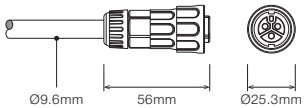
TYPE A



TYPE B

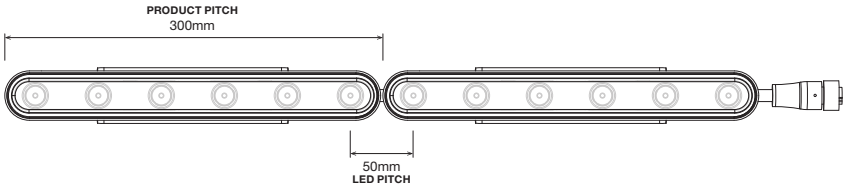


CONNECTOR + CABLE



[1] ACC-eLi-SSGS-BLK (eLi SS Single Side Glare Shield) not compatible with Surface Mounting Bracket

PRODUCT LENGTH



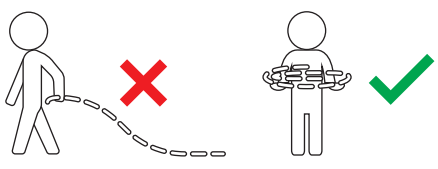
# OF MODULES	FINAL LENGTH
1	300mm
2	600mm
3	900mm
4	1,200mm
5	1,500mm
6	1,800mm
7	2,100mm
8	2,400mm
9	2,700mm
10	3,000mm
11	3,300mm
12	3,600mm
13	3,900mm
14	4,200mm
15	4,500mm
16	4,800mm
17	5,100mm
18	5,400mm
19	5,700mm
20	6,000mm
21	6,300mm
22	6,600mm
23	6,900mm
24	7,200mm
25	7,500mm
26	7,800mm
27	8,100mm
28	8,400mm
29	8,700mm
30	9,000mm
31	9,300mm
32	9,600mm
33	9,900mm
34	10,200mm
35	10,500mm
36	10,800mm
37	11,100mm
38	11,400mm
39	11,700mm
40	12,000mm
41	12,300mm
42	12,600mm
43	12,900mm
44	13,200mm
45	13,500mm
46	13,800mm
47	14,100mm
48	14,400mm
49	14,700mm
50	15,000mm

# OF MODULES	FINAL LENGTH
51	15,300mm
52	15,600mm
53	15,900mm
54	16,200mm
55	16,500mm
56	16,800mm
57	17,100mm
58	17,400mm
59	17,700mm
60	18,000mm
61	18,300mm
62	18,600mm
63	18,900mm
64	19,200mm
65	19,500mm
66	19,800mm
67	20,100mm
68	20,400mm
69	20,700mm
70	21,000mm
71	21,300mm
72	21,600mm
73	21,900mm
74	22,200mm
75	22,500mm
76	22,800mm
77	23,100mm
78	23,400mm
79	23,700mm
80	24,000mm
81	24,300mm
82	24,600mm
83	24,900mm
84	25,200mm
85	25,500mm
86	25,800mm
87	26,100mm
88	26,400mm
89	26,700mm
90	27,000mm
91	27,300mm
92	27,600mm
93	27,900mm
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97	29,100mm
98	29,400mm
99	29,700mm
100	30,000mm

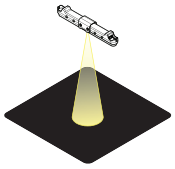
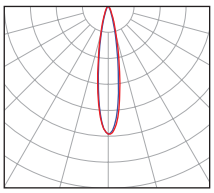
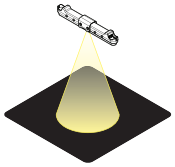
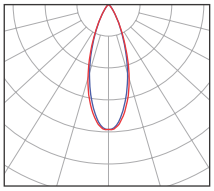
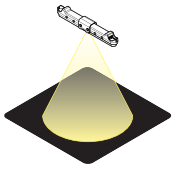
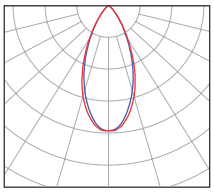
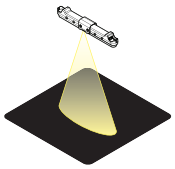
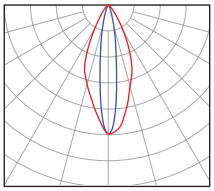
⚠ WARNING

PLEASE HANDLE LONG RUNS WITH CARE.

When handling long runs, please ensure that they are all supported and not dragged from one end.



POLAR DISTRIBUTION

OPTIC		POLAR DISTRIBUTION
25D Narrow Beam 25° Beam		
40D Medium Beam 40° Beam		
55D Wide Beam 55° Beam		
O4015D Oval Beam Oval 40° x 15° Beam		

PROFILE COLOUR

BLK · Black (Standard)



CST · Custom Colour



PROTECTION RATINGS

IP66

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

IP67

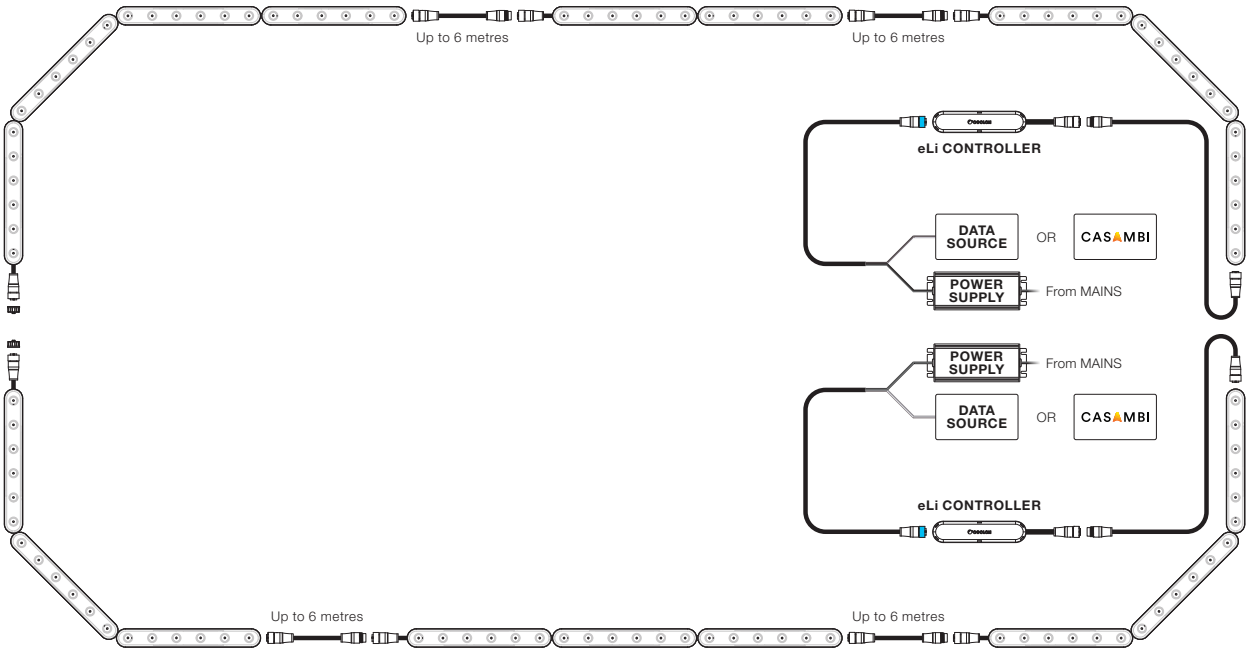
Fully protected against dust. Protected against wave-like water jets from all directions and temporary immersion (up to 1 metre).

IK10

Protected against 20-joule impact (equivalent to the impact of a 5.0kg mass dropped from 400 mm).

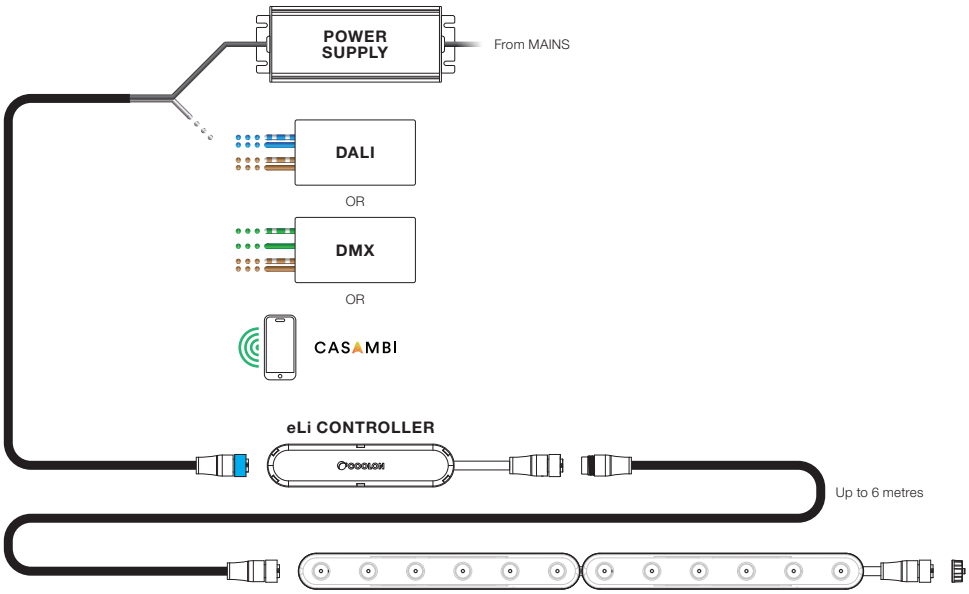
INSTALLATION LIMITS

	eLi 20 W/M	eLi 40 W/M
Luminaires per feed	100 luminaires	50 luminaires
Illuminated length per feed	30 metres	15 metres
Illuminated length per entry point	60 metres	30 metres
Total bus length per feed	Up to 300 metres	Up to 300 metres

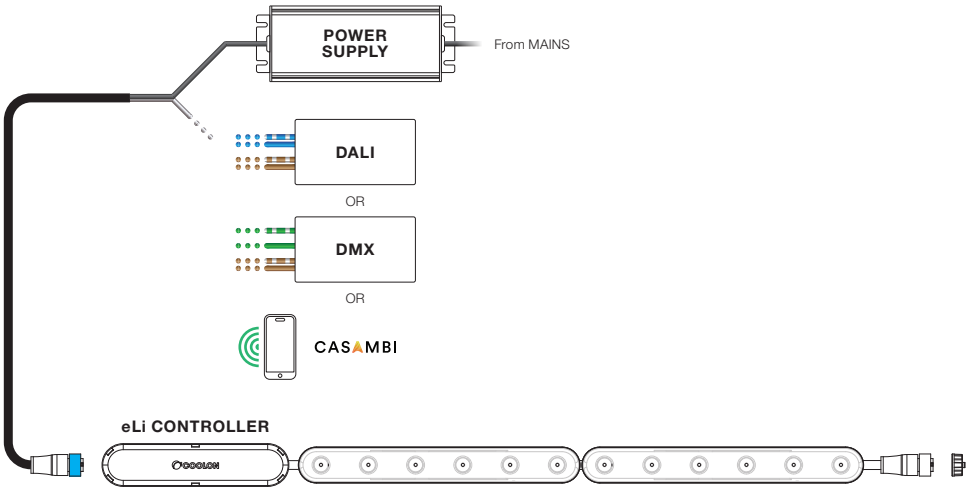


WIRING DIAGRAMS

WITH EXTENSION



WITHOUT EXTENSION



DALI

- DALI+ (Blue/White and Blue)
- DALI- (Brown/White and Brown)

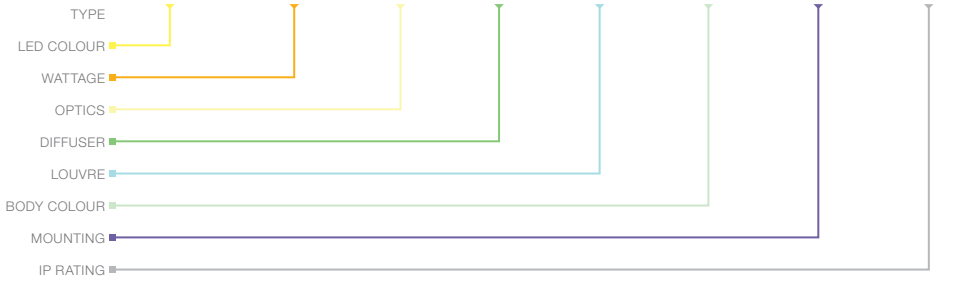
DMX

- DMX- (Green/White)
- DMX+ (Green)
- DMX Common (Brown/White and Brown)

[1] DALI-2 eLi controller uses the Lunatone DALI-2 RGB LED Dimmer DT8 (PN: 86458514).

ORDERING EXAMPLE

LNR - eLi RGBW - 40W - 40D - PC - BLK - BLK - RBA - IP66



LED COLOUR

RGBW	RGBW (4000K White)

WATTAGE

20W	20W / metre • 6W module
40W	40W / metre • 12W per module

OPTICS

25D	25° Beam
40D	40° Beam
55D	55° Beam
O4015D	Oval 40° x 15° Beam

DIFFUSER

PC	Polyurethane Clear

LOUVRE

BLK	Black (Standard)

BODY COLOUR

BLK	Black (Standard)
CST	Custom

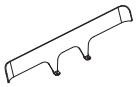
MOUNTING

SMB	Surface Mounting Bracket
RBA	Rotating Mounting Bracket (Type A)
RBB	Rotating Mounting Bracket (Type B)

IP RATING

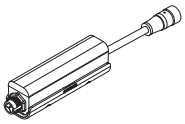
IP66	Outdoor Use
IP67	Outdoor Use (temporary immersion, up to 1m)

ACCESSORIES

	PRODUCT CODE	DESCRIPTION
	ACC-eLi-SSGS-BLK	eLi SS Single Side Glare Shield - Black [1]

[1] ACC-eLi-SSGS-BLK (eLi SS Single Side Glare Shield) not compatible with Surface Mounting Bracket

CONTROLLER

	CTR-eLi Controller-CAS-RGBW-IP66	eLi Controller, Casambi Control for eLi RGBW, Outdoor
	CTR-eLi Controller-DMX-RGBWPixel-IP66	eLi Controller, DMX (Full Frames) Control for eLi RGBW Pixel Output, Outdoor
	CTR-eLi Controller-DT8RGBW_D2-RGBW-IP66	eLi Controller, DALI-2 Certified DT8 Control for eLi RGBW, Outdoor

POWER SUPPLY FOR OUTDOOR USE

	PWR-HLG-60H-42AU	Mean Well Power Supply HLG 60W 42V
	PWR-HLG-150H-42AU	Mean Well Power Supply HLG 150W 42V
	PWR-HLG-240H-42AU	Mean Well Power Supply HLG 240W 42V
	PWR-HLG-320H-42AAU	Mean Well Power Supply HLG 320W 42V
	PWR-HLG-600H-42AB	Mean Well Power Supply HLG 600W 42V

CABLE EXTENSIONS

	CBL-LNR-OC8FO-DC/DATA-L-IP66-1M	Leader Cable with Female Outdoor Connector OC8FO, 1M DC AWG14 + DATA Cable
	CBL-LNR-OC8FO-DC/DATA-L-IP66-5M	Leader Cable with Female Outdoor Connector OC8FO, 5M DC AWG14 + DATA Cable
	CBL-LNR-OC8FO-DC/DATA-L-IP66-15M	Leader Cable with Female Outdoor Connector OC8FO, 15M DC AWG14 + DATA Cable
	CBL-LNR-OC8FO-DC/DATA-L-IP66-30M	Leader Cable with Female Outdoor Connector OC8FO, 30M DC AWG14 + DATA Cable
	CBL-LNR-OC8FO-DC/DATA-L-IP66-50M	Leader Cable with Female Outdoor Connector OC8FO, 50M DC AWG14 + DATA Cable
	CBL-LNR-OC3MF-DC-J-IP66-0.3M	Joiner Cable with Male & Female Outdoor Connectors OC3MF, 300mm DC Cable AWG14
	CBL-LNR-OC3MF-DC-J-IP66-1.2M	Joiner Cable with Male & Female Outdoor Connectors OC3MF, 1.2M DC Cable AWG14
	CBL-LNR-OC3MF-DC-J-IP66-3M	Joiner Cable with Male & Female Outdoor Connectors OC3MF, 3M DC Cable AWG14
	CAP-LNR-M19F-DC-T-IP66	Waterproof Termination Cap for M19 Female Connector