



Single colour and RGB / RGBA / RGBW with
ON/OFF/DMX

LINEAR FAÇADE LUMINAIRE

Linear & dynamic façade lighting

AI-LNFL-14

14 W | IP67 | DC | 1000 mm

The AI-LNFL-14 draws a continuous line of light across façades, bridges and architectural edges. An extruded aluminium body with silicone encapsulation and a PMMA / PC diffuser carries an IP67 rating for permanent outdoor use.

Running on 24 V / 48 V DC, it accepts ON/OFF & DMX control for static or fully dynamic colour schemes.

The ACON Advantage

- Continuous run-to-run line of light
- Extruded aluminium body
- Die-cast aluminium bracket
- Silicone encapsulation, IP67
- PMMA / PC rounded diffuser cover
- 120° nominal beam angle RGB,
- RGBA and RGBW options 100 mm
- Pixel Pitch
- ON/OFF, DMX control
- 24 V DC safe low voltage
- Five standard finishes
- Custom lengths on request

14 W

PER 1000 MM RUN

24 / 48

V DC

IP67

INGRESS PROTECTION

120°

BEAM ANGLE

Colour & control options

- **White:** 2700 K, 3000 K, 4000 K, 5700 K, 6500 K
- **Single colour:** red, green, blue
- **Full colour:** RGB, RGBA, RGBW 4000 K, RGBW 5700 K
- **Colour rendering:** CRI 80+ standard, CRI 90+ on request
- **Control:** ON/OFF, DMX
- **Spraying finishes:** sand black, sand grey, sand white
- **Pixel Pitch:** 100 mm
- **Customisation:** Please contact Factory

Optical	
Light efficiency	85 lm/W at 3000 K
Colour temperature	2700 K / 3000 K / 4000 K / 5700 K / 6500 K
Single colours	Red, green, blue
Full colour	RGB, RGBA, RGBW 4000 K, RGBW 5700 K
Beam angle	120° nominal
Colour rendering	CRI 80+ on 2700 K – 5700 K

Electrical	
Lamp	LED
Wattage	14 W
Voltage	DC 24 V / 48 V
Rated frequency	50 Hz
Controls	ON/OFF, DMX

Mechanical	
Housing material	Extruded aluminium
Bracket material	Die-cast aluminium
Encapsulation	Silicone
Cover material	Rounded PMMA / PC
Ingress protection	IP67
Dimensions	L 1000 × W 30 × H 47 mm
Weight	0.58 kg ±5%
Operating temperature	0 °C to 55 °C

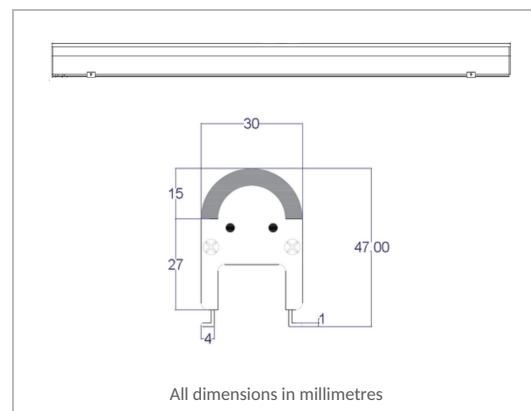
Finish	
Electrostatic spraying	Sand black, sand grey, sand white
Customisation	Available on request

Ordering information

Model	Wattage	Colour option	Length
AI-LNFL-14	14 W	2700 I 3000K	1000 mm
AI-LNFL-14	14 W	Tun. White 2700 K – 6500 K	1000 mm
AI-LNFL-14	14 W	Red / green / blue	1000 mm
AI-LNFL-14	14 W	RGBA	1000 mm
AI-LNFL-14	14 W	RGBW 3000 K / 5700 K	1000 mm

Kindly specify 24 V / 48V at the time of order.

Dimensional drawing



				
Building façades	Bridges & flyovers	Architectural edges	Landscape walls	Signage & perimeter

Notes

- CRI 80+ applies to the 2700 K, 3000 K, 4000 K and 5700 K colour temperatures only – consult sales for CRI 90+.
- The 24 V / 48 V power supply, junction boxes, DMX controllers and signal amplifiers are to be procured separately.

This product must be installed in accordance with applicable national and local electrical and construction codes, by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following instructions may result in death or serious injury.

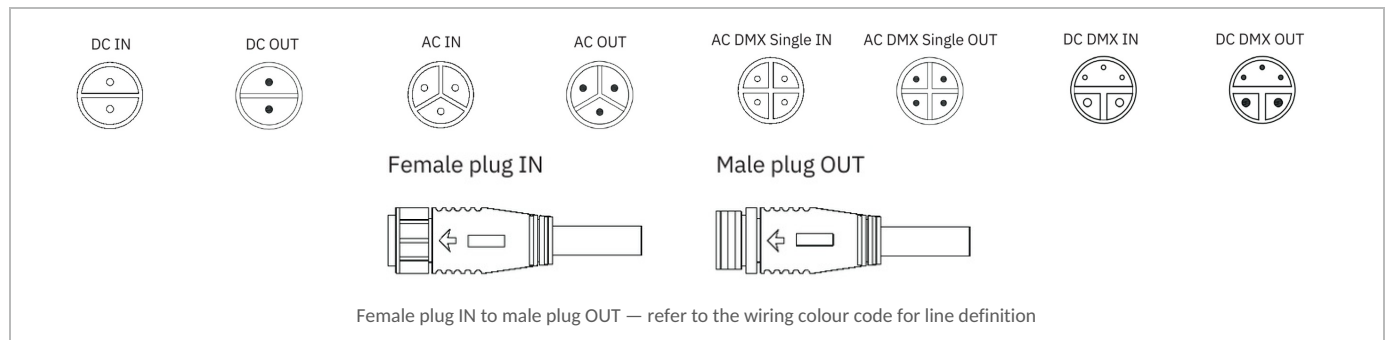
Caution

- Do not connect the product to power while it is still in its packaging.
- Do not cover the fixture during operation.
- Do not use this product in an enclosed environment.
- If the product appears damaged, do not attempt any repair — contact your dealer.

Warning

- Do not install the luminaire in an area of lightning activity.
- Never cut the waterproof connector of the luminaire.
- Ensure a sound earth connection — the housing is metal.
- Do not exceed the specified voltage of the fixture.
- Disconnect power before installing or servicing to avoid electric shock.

Connector pin configuration



Connector types

DC	2-pin, DC IN and DC OUT
AC	3-pin, AC IN and AC OUT
AC DMX single	4-pin, IN and OUT
DC DMX	4-pin, IN and OUT
Coupling	Female plug IN to male plug OUT

Making a connection

Alignment	Align the arrows on the male and female ends
Locking	Tighten the cable connector collar clockwise
Line definition	Refer to the wiring colour code
0-10 V mode	Two in and two out
DMX on AC	Two in and two out

Control topologies

DC ON/OFF control. AC supply feeds a 24 V / 48 V DC power supply, then a junction box or T junction box, then a run of luminaires. Each run must not exceed the maximum power of the 24 V / 48V DC supply, to a maximum cord current of 8 A.

DC DMX control. The DMX controller and the 24 V / 48 V DC power supply both feed the junction box ahead of the run. Where the signal line exceeds a certain number of connections, add a signal amplifier.

Confirm every connector is tight and the collar fully tightened. A loose collar allows water ingress, which will damage the fixture or cause leakage current.