

ORANGE TEK

ARIALED

A BREATH OF FRESH AIR
in ROAD LIGHTING





Following on from the unprecedented success the TERRALED luminaire found in all sectors, the new ARIALED luminaire evolved to become the LED lantern choice for the discerning Lighting Professional.

The ARIALED follows the essence of the four classical elements of Earth, Air, Fire and Water. These four elements were considered to be the cornerstone of philosophy, science, and medicine for two thousand years and is closely linked to all the values of Mother Earth.

OrangeTek's principal philosophy is to protect our planet and by making available affordable leading edge technology that allows significant energy saving with long lasting LEDs. ARIALED is simple to install, made of LM6 aluminium, under drives the LED chips and keeps the LED so cool by using our unique AriaStream air flow system.





DESIGNED FOR AUSTRALIA AND NEW ZEALAND – THE ORANGETEK ARIALED ROAD LIGHT

- High Performance
- Affordable
- Up to 60% less energy compared to existing HID technology

The result of extensive research and feedback from prominent lighting professionals, OrangeTek is proud to present to you our ARIALED Range of Modular LED based Luminaires. Our new range has been designed to bring LED streetlighting into the mainstream, surpassing the requirements of the relevant National and International lighting standards.

MODULAR DESIGN AND FLEXIBLE LED DRIVE CURRENT OPTIONS = BEST SOLUTION TO MEET YOUR ROADING REQUIREMENTS

Our innovative modular design allows one luminaire to be upgraded as the needs of the road change. Low driving current option (350mA/500mA) to achieve max efficacy or higher driving current(700mA) for max lumen output.

PHOTOMETRIC PERFORMANCES

350mA Drive Current

500mA Drive Current

700mA Drive Current

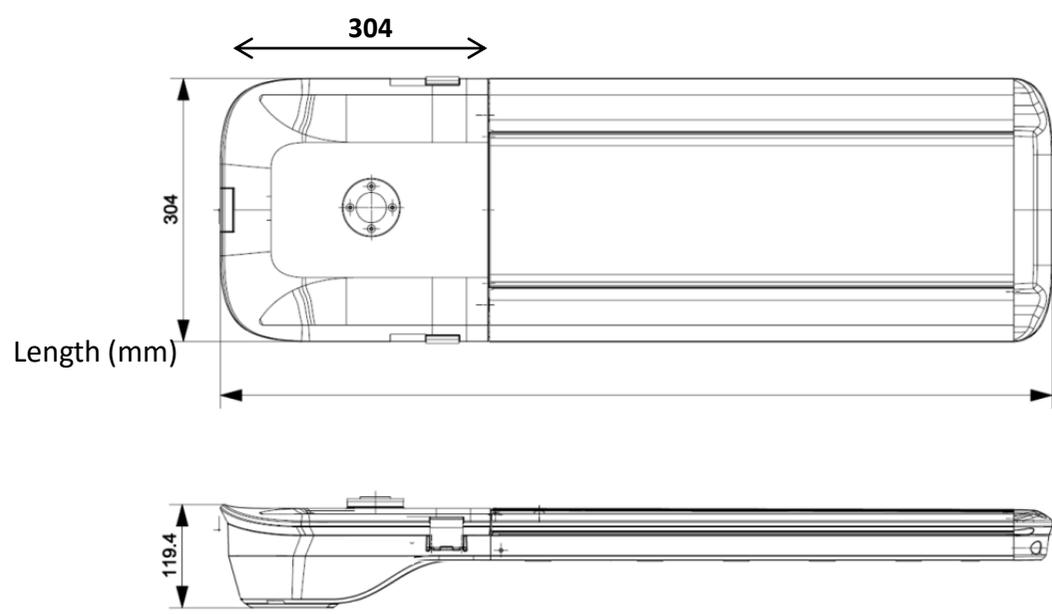
| Model | Number of LED | Initial Flux (Typical) lm | Power Consumption (Typical) | Initial Flux (Typical) lm | Power Consumption (Typical) | Initial Flux (Typical) lm | Power Consumption (Typical) |
|------------|---------------|---------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|
| ARIALED40 | 30 | 4300 | 33W | 6000 | 47W | 8000 | 67W |
| ARIALED40 | 40 | 5850 | 45W | 8050 | 63W | 10800 | 90W |
| ARIALED50 | 50 | 7150 | 54W | 9850 | 78W | 13200 | 109W |
| ARIALED60 | 60 | 8590 | 65W | 11800 | 93W | 15800 | 131W |
| ARIALED70 | 70 | 10000 | 76W | 13800 | 108W | 18450 | 153W |
| ARIALED80 | 80 | 11350 | 86W | 15550 | 123W | 20850 | 174W |
| ARIALED90 | 90 | 12750 | 97W | 17500 | 139W | 23450 | 196W |
| ARIALED100 | 100 | 13950 | 108W | 19150 | 154W | 25650 | 215W |
| ARIALED110 | 110 | 15350 | 119W | 21100 | 170W | 28250 | 236W |
| ARIALED120 | 120 | 16650 | 129W | 22900 | 184W | 30650 | 258W |
| ARIALED130 | 130 | 18050 | 140W | 24800 | 200W | 33200 | 279W |
| ARIALED140 | 140 | 19500 | 152W | 26850 | 216W | 35900 | 303W |

- LED : Cree XPG2 /Nichia 219C LEDs
- Colour temperature: 4000K±300.
(Other colour temperature available on request)
- Colour rendering index: 70.
- Highly uniform light distribution.
- Each LED module is fitted with identical optical lenses to provide optimal efficiency and desired light distribution.
- Different lens designs to suit different road lighting challenges.
- Photometric files are available on request. Available in IES. and CIE. formats.

*All measurements taken at ambient temperature of 25°C



DIMENSIONS



| Model | Number of LED | Weight (kg) | Windage area(M2) | Length (mm) |
|------------|---------------|-------------|------------------|-------------|
| ARIALED30 | 30 | 7 | 0.040 | 502 |
| ARIALED40 | 40 | 7 | 0.040 | 502 |
| ARIALED50 | 50 | 7.7 | 0.044 | 572 |
| ARIALED60 | 60 | 7.7 | 0.044 | 572 |
| ARIALED70 | 70 | 8.4 | 0.048 | 642 |
| ARIALED80 | 80 | 8.4 | 0.048 | 642 |
| ARIALED90 | 90 | 9.1 | 0.052 | 712 |
| ARIALED100 | 100 | 9.1 | 0.052 | 712 |
| ARIALED110 | 110 | 9.9 | 0.056 | 782 |
| ARIALED120 | 120 | 9.9 | 0.056 | 782 |
| ARIALED130 | 130 | 10.7 | 0.060 | 852 |
| ARIALED140 | 140 | 10.7 | 0.060 | 852 |

MECHANICAL AND PHYSICAL FEATURES

Materials and Methods of Construction

- The ARIALED luminaire housing is constructed from LM6 Die-cast aluminium alloy, supplemented with stainless steel, extruded aluminium alloy and UV stabilised polycarbonate.
- The ARIALED luminaire construction consists of a power supply compartment and optical modules.
- The ARIALED has a minimum 80 µm powder coating in black (RAL 9017) and Grey (RAL7040) with other RAL colours available upon request.
- The LEDs of ARIALED are mounted and soldered onto a metal core printed circuit board. The printed circuit board is installed in the optical module and sealed with clear UV stabilized polycarbonate lens to a degree of protection of IP66.

MECHANICAL AND PHYSICAL FEATURES

Installation/Mounting

- Mounting: post top or side entry through the use of two M10 locking screws.
- Post top: 60-76mm.
- Side entry: 32-60mm.
- Tilting mechanism from -15° to $+10^{\circ}$.
(-15° to -10° achieved by adding external adaptor)

Accessing Power Compartment

- The power compartment is easily accessible from above with a positive open locking mechanism without disturbing the luminaire mountings.

Thermal Management

- ARIALED incorporate Extruded Aluminium Heatsinks, which are proven to work more efficiently than other die-cast equivalents.
- Air Ventilation Valve built within power compartment to ensure sufficient airflow to keep drivers cool.

ELECTRICAL DATA & LIGHTING CONTROL

Electrical Data

- The luminaire will operate within the ranges of 110V – 277V rms and 47 – 63 Hz.
- Internal surge protection to 10KV
- The ARIALED luminaire's power factor is greater than 0.93.

Lighting Control

- ARIALED luminaires come with 7 pins NEMA photocells as standard . Mini photocells are available request.
- ARIALED is currently compatible with all major CMS systems.
- Pre-set Dimming options are also available upon request.

Xitanium Drivers

PHILIPS

Xitanium

LED driver

- The ARIALED luminaires equip with Philips Xitanium LED drivers.
- Reliable, robust and offer flexibility through the operating window and many smart features.
- 1-10V / DALI / Dynadimmer compatible



QUALITY SYSTEM AND WARRANTY

Quality System and Construction Standards

- Designed and manufactured to comply with EN 60598-2-3 Road Lighting
- ARIALED luminaire is a RoHS, WEEE compliant product.
- OrangeTek ODM factory implements and maintains a Quality Management System in accordance with ISO 9001:2008.
- OrangeTek ODM factory implements and maintains a Environmental Management System in accordance with ISO 14001:2004.

Warranty

Each unit is guaranteed for 10 years from the date of purchase. In the unlikely event of a failure, we will replace the entire unit.

Due to the continuous research & development we undertake on our products, we reserve the right to alter the specifications without notice.

Contact Details

For more information on our ARIALED luminaires, please contact:

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