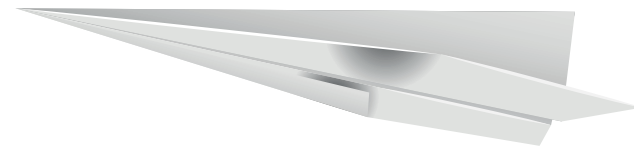




ORANGE TEK

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 THE UK – 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 in the UK, 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 FOR EASY UPGRADEABILITY AND HIGH OUTPUTS

Our innovative modular design allows one luminaire to be upgraded as the needs of the road change. Modules are available to allow light outputs as low as 10 LED, to a powerful 120 LED .

TECHNICAL SPECIFICATIONS

Model Number	Number of LEDs	Module Quantity	Initial Luminaire Flux (lumens)	Power Consumption (including power supply losses)	Weight (Kg)	Windage Area (m ²)	Operating Temp. (Celsius)
ARIALED 20	20	1	2100	21W	6.5	0.055	Between -40 °C and +50 °C
ARIALED 30	30	2	3150	31W	7	0.060	
ARIALED 40	40	2	4200	41W	7	0.060	
ARIALED 50	50	3	5250	52W	7.5	0.065	
ARIALED 60	60	3	6300	62W	7.5	0.065	
ARIALED 70	70	4	7350	73W	8	0.070	
ARIALED 80	80	4	8400	84W	8	0.070	
ARIALED 90	90	5	9450	95W	8.5	0.075	
ARIALED 100	100	5	10500	105W	8.5	0.075	
ARIALED 110	110	6	11500	115W	9	0.080	
ARIALED 120	120	6	12600	126W	9	0.080	

*All measurements taken at ambient temperature of 25°C



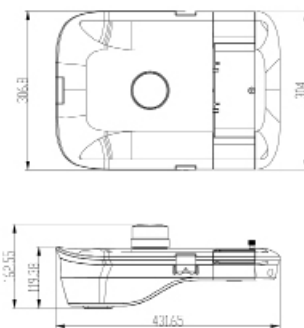
(2 Module)



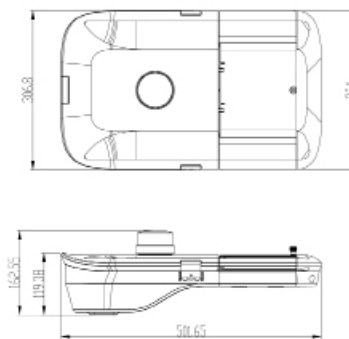
(3 Module)

DIMENSIONS

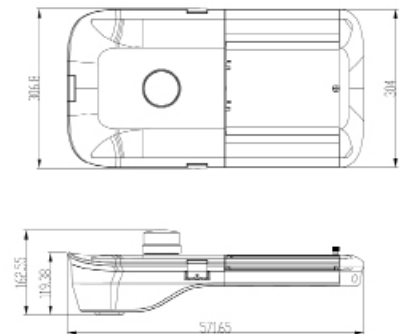
1 Module



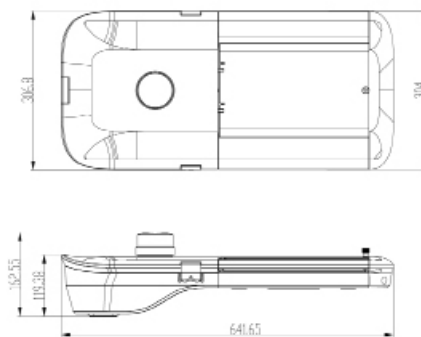
2 Module



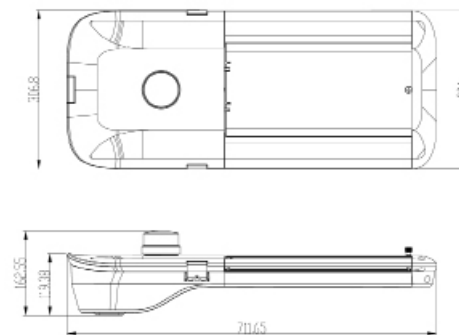
3 Module



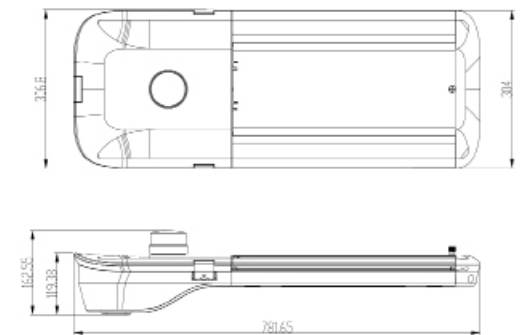
4 Module



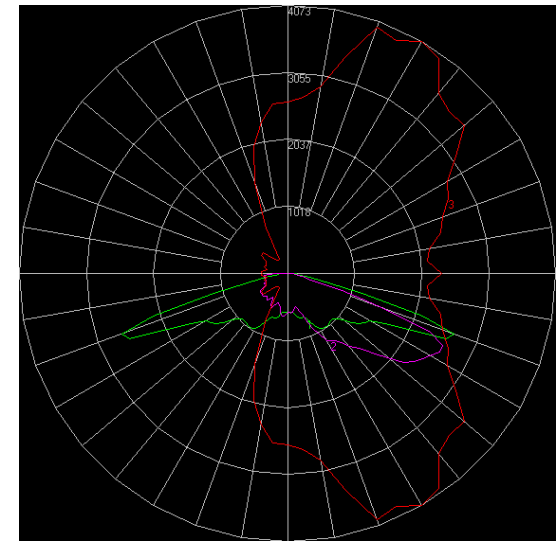
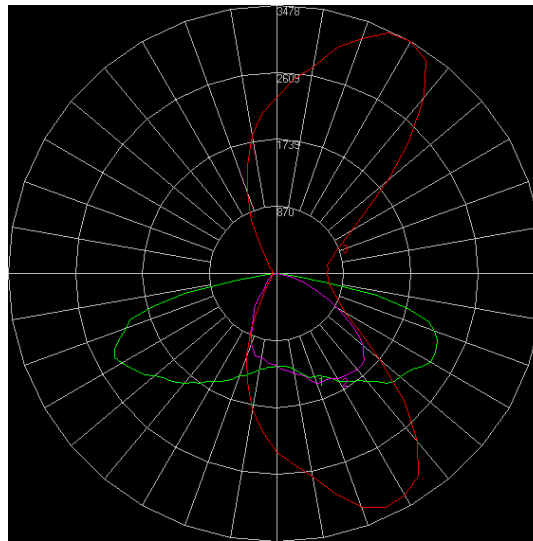
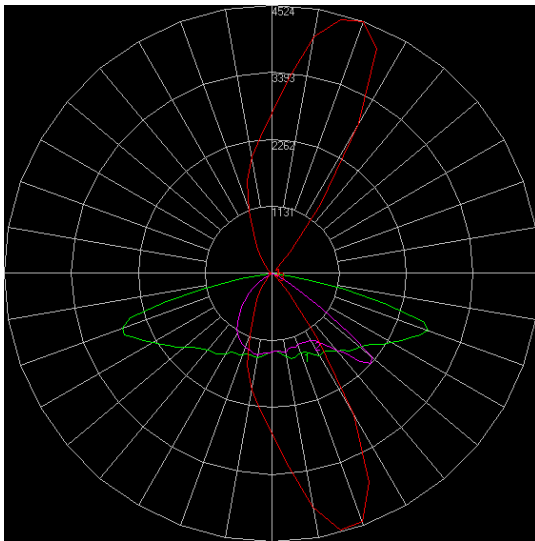
5 Module



6 Module



OPTICAL PERFORMANCE



(ARIALED distribution patterns)

- Colour temperature: 5000K. Optional 4000K and 3500K.
- Colour rendering index: 70.
- High Quality 140 Lumen/Watt Cree LEDs.
- Highly uniform light distribution. Full cut off.
- Each LED module is fitted with identical optical lenses to provide optimal efficiency and desired light distribution.
- 3 Different lens designs to suit different road lighting challenges.

- Photometric files are available on request. Available in ies. and cie. formats.



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 50 µm powder coating in black (RAL 9005) 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 enable fast adjustment on tilt angles from -5

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. In addition, our luminaires run at a relatively low 350mA driving current. This combination keeps junction temperatures low and ensures our luminaires will easily maintain L90 Lumen depreciation for at least 100,000 hours.
- Air Ventilation Valve built within power compartment to ensure sufficient airflow to keep drivers cool.



ELECTRICAL DATA & LIGHTING CONTROL

Electrical Data

- All electrical components are appropriately de-rated with regard to applicable duty cycles to give a minimum 84 000 hours life expectancy.
- The ARIALED luminaires are rated for operation at voltages of 200V-240V rms 50Hz-60Hz.
- The luminaire will operate within the ranges of 110V – 277V rms and 47 – 63 Hz.
- Internal surge protection to 6KV
- The driver unit is individually sealed to a protection of IP65.
- The ARIALED luminaire's power factor is greater than 0.92.

Lighting Control

- ARIALED luminaires come with 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.



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 20 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:

Email: info@orangetek.co.uk

Tel: 01283 716690

Fax: 01283 716366

Mehdi Benkhelifa

Tel: 07956 139337

Email: mehdi.benkhelifa@orangetek.co.uk

Richard Fisher

Tel: 07885 912428

Email: richard.fisher@orangetek.co.uk

Nigel Parry

Tel: 07968 823066

Email: nigel.parry@orangetek.co.uk

Wilbur Tarn

Tel: 07778 548101

Email: wilbur.tarn@orangetek.co.uk

Address:

OrangeTeK Limited

Coach House

Blakenhall Park, Bar Lane,

Barton under Needwood,

Burton upon Trent DE13 8AJ

Web: www.orangetek.co.uk