

ALDRIDGE

h-LED II



High Mast Roadway and Area Lighting

h-LED II Precision LED High Mast Lighting

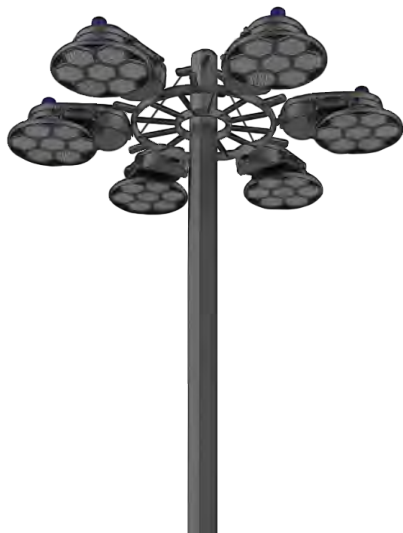
Aldridge h-LED II is the latest addition to our High Mast Lighting series. Especially designed, this new and reformed high mast, uses the latest high-efficiency LED technology. A whole new lighting solution for the simplest and most complex illumination applications.

Area Lighting

h-LED II luminaire has a narrow and wide area distribution, to maximize pole spacing whilst meeting the required foot-candle level and uniformity for the application. Performance packages range up to 105,000 lumens, designed to meet critical levels for “high task” areas in locations including: Ports, Rail Yards, Industrial, and Correctional facilities. The fully prismatic glass optics produce an overlapping light pattern resulting in high application efficiency, providing excellent uniformity and glare control which gives excellent visibility within the space.

Roadway Lighting

h-LED II luminaire has multiple roadway lighting distributions designed to maximize spacing while meeting stringent requirements of IES RP8 guidelines for average, uniformity and veiling luminance. Installation costs are minimized with this direct retrofit luminaire without rewiring or changing existing luminaire arms. Asymmetric distributions are easily aimed towards the roadway with the rotatable optical assembly.





Features

- Long lifetime and reliability, reduces maintenance-related lane or area closures
- 60% reduction in energy use
- Lifetime up to 1,000,000 hours
- Reduced installation cost, direct retrofit without rewiring
- 180° top opening for easy access
- Dark sky friendly with zero upward light and minimal glare
- Field rotatable optics
- Combination of 3 LED modules (4 - 6 - 7)
- Direct replacement using existing high mast infrastructure
- Industry leading optical performance to direct more lighting where you want it
- Compatible with leading programmable lighting control systems (optional)

Applications

- Highways and Interchanges
- Port Container Facilities
- Toll Plazas
- Rail Yards
- Correctional Facilities
- Large Area Industrial Facilities
- Parking Areas
- Airports
- Truck Stops
- Toll Plazas
- Military Installations
- Security Lighting

Area Lighting

A combination of 3 LED module configurations (4/6/7), and equipped with glass/PC lens for each module, the h-LED II high mast is able to converge stray light efficiently. Each separate module is contained within a ventilated aluminum housing unit for maximum thermal transmission. The heat sink is made up of two parts die-cast aluminum for thermal convection. Two screw bolts and buckles make for an efficient and time saving installation with a 180° top opening for easy access.

Glass/PC Lens

- Glass/PC lens ensure maximum luminous effect, and reduces dust and dirt
- IP Protection - IP66

Installation

- Three configurations for installation
- Fits round pole 42-60mm

Advantage and Function

- Lumen packages range from 29400 to 97500 providing one-for-one replacement of up to 1500 watt HPS
- Prismatic glass optics provide high application efficiency, uniformity and glare control
- A choice of multiple asymmetric lighting distributions for both median mount and offset pole mounting configurations
- Symmetrical narrow and wide distributions to maximize system efficacy and quality of light for multiple pole spacings
- Long system life with driver life exceeding 100,000 hours and LED life of L82 @100,000 hours minimize maintenance costs
- Robust mechanical design with IP66 optics, 3G vibration rating, 4-bolt mounting, and a polyester paint finish with 5,000-hour salt fog rating ensures system reliability

Optional Accessories

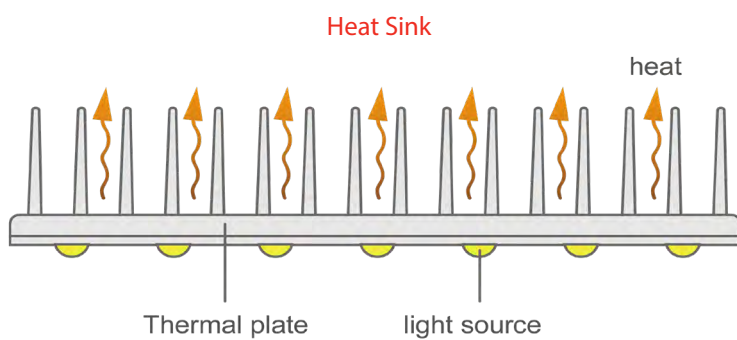
- Robust extreme surge protection rating of 20kA/10kA
- Control options include 0-10V dimming, P7 photocontrol, ROAMTM enabled
- Field-adjustable output allows for zone control, accelerating your return on investment



Combination of LED Modules



3 Installation Options



Ventilation Convection Housing



Ventilation Convection Housing

The luminaire uses a die-casting heat sink to convect/conduce heat, quickly dissipate heat, and extend the life of the LED lamp.

Dimensions



Features

- High Performance roadway luminaire designed to meet stringent Australian/New Zealand road lighting standard, AS/NZS 60698.2.3 & AS/NZS TS 1158.6
- High Performance Optics designed to comply and meet Australian standards AS1158-1.1 Cat V
- Power Door - Designed for quick maintenance in-field
- Hinged Driver Housing Door allows easy access and removal of Power Door
- Tool-less entry via stainless steel latches
- Quick Disconnect for electrical maintenance
- Rotatable Optical Assembly Rotates 90°
- Integrated thermal management System

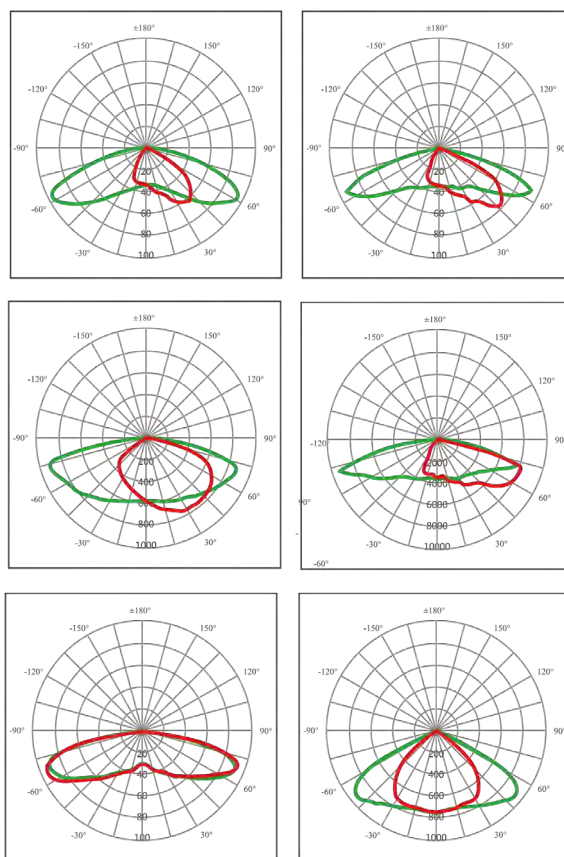
Technical Data

- **Body:** High Pressure Marine Grade Die Cast Aluminum
- **Optics:** Type 1, 2, 3, 4 and 5 Beam Distribution
- **LED:** Long Life, High Density up to 70,000 Luminous Flux L80> 100,000 hours Ta 45°C
- **Wattage:** 60 - 150 Watts
- **Finishing:** Powder Coat (Grey Standard)
- **Mounting:** 2 Bolts
- **IP rating:** IP66
- **IK rating:** IK06
- **Voltage:** 120V - 280V 50/60Hz
- **Power Factor:** >0.9

Options

- **Photocell:** 5-pin Nema receptacle (5PN)
- **Photocell:** 7-pin Nema receptacle (7PN)

Photometric Design Data



Specification H-LED II

PRODUCT CODE	HLEDII210	HLEDII240	HLEDII320	HLEDII475	HLEDII570	HLEDII631	HLEDII750
Power (watts)	210	240	320	475	570	631	750
Input Voltage (V)	120V - 277V 50/60Hz	120V - 277V 50/60Hz	120V - 277V 50/60Hz	120V - 277V 50/60Hz	120V - 480V 50/60Hz	120V - 480V 50/60Hz	120V - 480V 50/60Hz
CCT (K)	3000	4000	4000	5000	5000	5700	5700
CRI	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70
IP Protection	IP66	IP66	IP66	IP66	IP66	IP66	IP66
IK Protection	IK06	IK06	IK06	IK06	IK06	IK06	IK06
Weight (Kg)	0	0	0	0	0	0	0



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