



## ionLUX™ High Bay | High Efficiency Plasma Lighting



# ionLUX™ High Bay

Having evolved over the past 100 years from its initial concept, plasma lighting and more importantly High Efficiency Plasma lighting has now come of age.

Evolved from technology conceived by Nikola Tesla in 1891, in which he utilised the principles of "Wireless Energy Transfer", High Efficiency Plasma delivers real world lighting efficiency with low power consumption and a high quality of white light. The absence of electrodes, or filaments, brings some very significant benefits. High Efficiency Plasma is capable of providing high lumen packages for applications from 400W upwards to 5kW. The conversion of power to light is more efficient and lamp life is longer, typically lamp life is 25,000 hours or more. Lamp chemistry can include a wide range of chemicals that cannot normally be used in lamps with electrodes as they would react with electrode materials. This allows lamp doses to be accurately specified to perform any one of a wide range of lighting applications.

At the heart of ionCORE™ is Ceravision's High Efficiency Plasma light source, the Light Emitting Resonator, which has embedded within it a capsule containing a mixture of mercury and metal halide salts. When energised by radio frequency waves emitted from the antenna of the light engine, a plasma is formed. The power is then regulated to allow the source to be dimmed and the plasma maintained over a wide range of light outputs.

The very efficient conversion of electrical power to light takes place in the compact capsule. The small size of light source ensures unparalleled efficiency; in simple terms this allows the light to be precisely focused to deliver market leading luminaire efficiencies exceeding 90%. Unlike other light sources in which the large size of the lamp restricts the efficiency of the optics, or in the case of LEDs, where a number of points must be positioned and focused, the small light source required for High Efficiency Plasma gives it its efficiency and the ability to outperform its competition.

**High Efficiency Plasma, redefining high wattage lighting.**





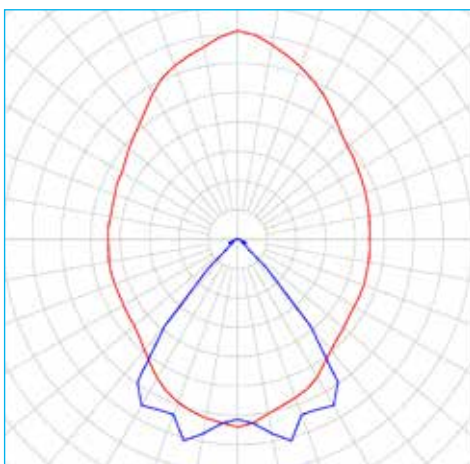
## ionLUX™ High Bay Lamp Specification

Source Type	Ceravision High Efficiency Plasma (HEP)		LLMF	LSF*
Lamp Type	Ceravision Light Emitting Resonator (LER)	2000 hours	0.98	0.99
CRI	80	4000 hours	0.96	0.98
Colour Temperature	4500 K	6000 hours	0.94	0.98
Luminous Flux	> 26,000 lumens	8000 hours	0.90	0.98
Rated Light Source Life	25,000 hours			
Flicker Free	Yes			
Mercury Content	14 mg			
Warm Up Time	< 1 minute (to 90% output)			
Hot Restrike	4 minutes			

\*survival factor characteristics based on extrapolated data point

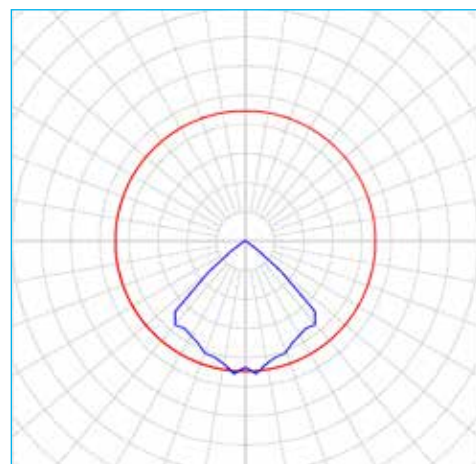
## Polar Distribution Plots

Narrow Distribution



Max plane at H = 180    Max cone at V = 15

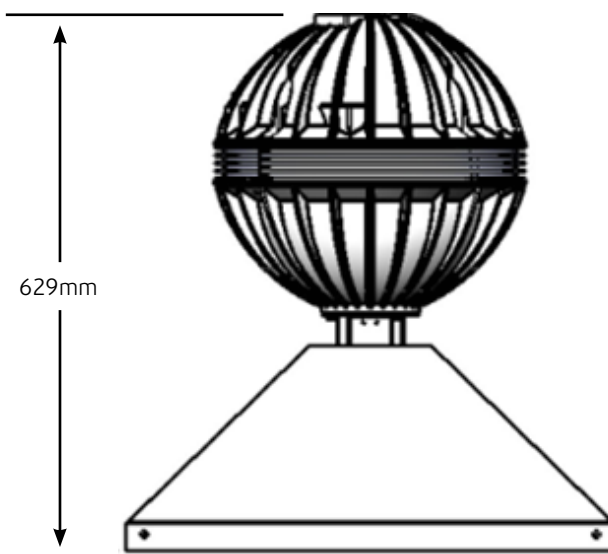
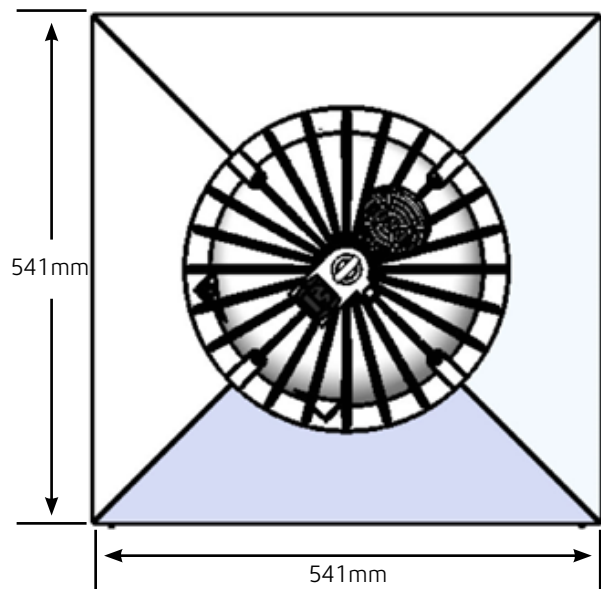
Wide Distribution



Max plane at H = 35    Max cone at V = 5

## ionLUX™ High Bay Gen 1 Luminaire Specification

Power Consumption	400 Watts	Magnetron & Waveguide Life	50,000 hours
Mains Supply Voltage	240 Volts AC 50 Hz	Magnetron Operating Frequency	2.45 GHz
IP Rating	IP20	Thermal Management	Integrated 12 Volt DC Fan
Weight	16.0 kg	Body Material	Die Cast Aluminium
Source Type	Ceravision High Efficiency Plasma (HEP)	Optical Cover	Toughened Soda Lime Glass
Lamp Type	Ceravision Light Emitting Resonator (LER)	Colour	White RAL9016 & Blue RAL 5017 (alternative RAL colours available)
Maximum Ambient Operating Temperature	+50 °C	Light Output Ratio	96%
Electronic Control Gear	Integrated	Reflector Options	Aisle Distribution & Wide Distribution
Wireless Control System	External - Luminaire Transceiver (optional)	Reflector Material	Alanod Miro 4
Dimming Range	100% to 50 % (in 1% increments)	Installation	M10 Threaded Rod



## ionLUX™ High Bay Gen 1 Options



Aisle Reflector  
Product code - ALVARA400AR



Wide Beam Reflector  
Product code - ALVARA400SR



M10 Link Eye Assembly  
Product code - 058-0005



Gripple Safety Cable  
Product code - 605-0002

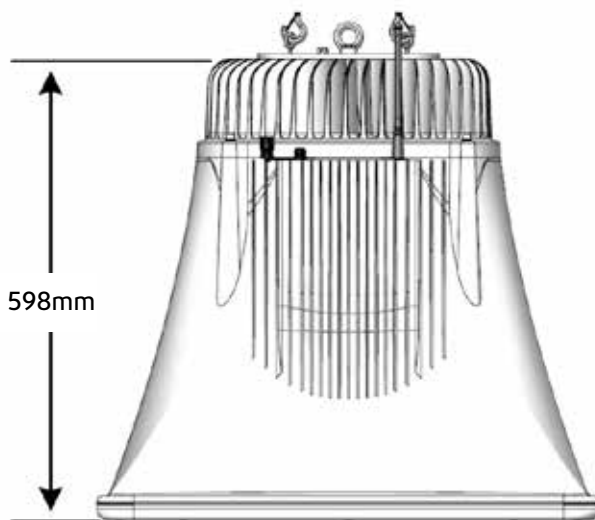
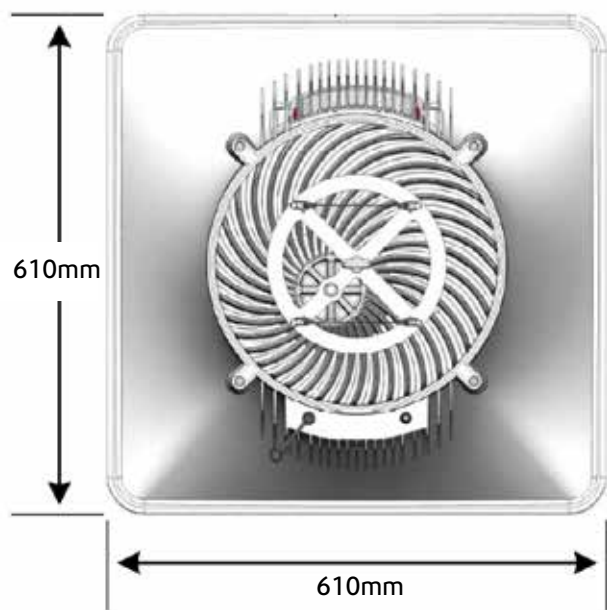


Luminaire Transceiver  
Product code - ALVHB-LT



## ionLUX™ High Bay Gen 2 Luminaire Specification

Power Consumption	400 Watts	Magnetron & Waveguide Life	50,000 hours
Mains Supply Voltage	110 - 240 Volts AC 50 - 60 Hz	Magnetron Operating Frequency	2.45 GHz
IP Rating	IP20	Thermal Management	Die Cast Aluminium Heat Sink
Weight	24.5 kg	Body Material	Injection Moulded Polycarbonate
Source Type	Ceravision High Efficiency Plasma (HEP)	Optical Cover	Toughened Soda Lime Glass
Lamp Type	Ceravision Light Emitting Resonator (LER)	Colour	White RAL9016 (alternative RAL colours available)
Maximum Ambient Operating Temperature	+50 °C	Light Output Ratio	96%
Electronic Control Gear	Integrated	Reflector Options	Aisle Distribution & Wide Distribution
Wireless Control System	Integrated (optional)	Reflector Material	Alanod Miro 4 & Miro 5
Dimming Range	100% to 50 % (in 1% increments)	Installation	Gripple Cable & M10 Threaded Rod Options



## ionLUX™ High Bay Gen 2 Options



Aisle Reflector  
Product code - ALV.G2.01.A



Wide Beam Reflector  
Product code - ALV.G2.01.W



Gripple Adaptor Plate Assembly  
Product code - 058-0009



Box Section Plate Assembly  
Product code - 058-0010



Integrated Wireless Control System  
Product code - ALV.G2.01.C



Gripple Safety Cable  
Product code - 605-0002





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