



Key Features & Benefits

- Blue & Red Spectrum & customisable wavelength to suit application
- Photosynthetic Photon Flux (PPF) up to **510 μ mol/s**
- Noise free fans provide excellent heat dissipation
- Photosynthetic Photon Flux Density up to **$\geq 890 \mu$ mol/m²/s @ 0.3M**
- IP54 rated with IP65 front lense
- 3 Year Replacement Warranty
- Reduces energy consumption by over 50% on traditional lighting



ORDER

LED Blue/Red Spectrum Horticultural Highbay



The CEMA Lighting LED IP54 Blue/Red Spectrum Horticultural Highbay is a high output luminaire specifically designed to be used within the horticultural industry for large scale greenhouses, urban farming facilities and garden centres across the UK as well as many other uses when looking to improve yield and reduce electricity costs within controlled environment farming situations.

This luminaire utilises a 120° beam angle, the LED chips used within the luminaire are from Epistar who are known for their high quality horticultural LED chips with high PAR values and allow for the fitting to be used within a wide temperature range from -20°C to 40°C giving it more flexibility to be used in a wide range of environments.

This fitting has a Photosynthetic Photon Flux (PPF) of up to 510 μ mol/s for the 300W version which shows the total amount of PAR (Photosynthetically Active Radiation) which is being output per second. The Photosynthetic Photon Flux Density (PPFD) this luminaire can achieve is up to $\geq 890 \mu$ mol/m²/s @ 0.3M for the 300W version, which is the amount of PAR reaching a 1M² area per second at a set height.

This product comes with a 3 year replacement only warranty.

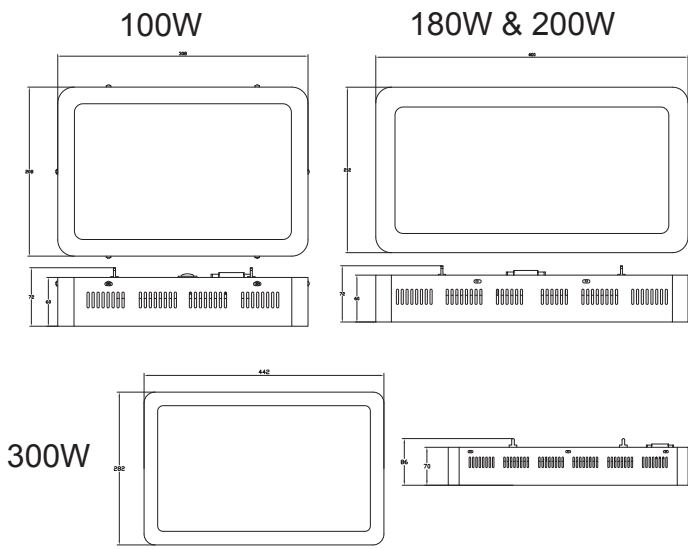
Applications

- Urban Farming Facilities
- Garden Centres
- Large Scale Greenhouses
- Multilayer Cultivation
- Mass Indoor Farming Facilities
- Controlled Environment Farming

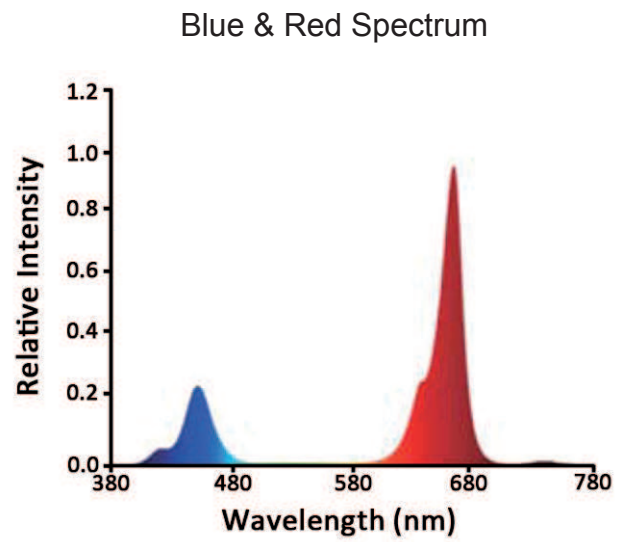
Optional Extras

- Customisable LED wavelength spectrum to suit a specific application

Commercial and Industrial Lighting Specialists



Size Diagram



Wavelength Spectrum Diagram

LED Blue/Red Spectrum Horticultural Highbay

Technical Specification

Product Code	910-72-01	910-72-02	910-72-03	910-72-04
LED Power	3W*55pcs = 165W	3W*100pcs = 300W	3W*120pcs = 360W	3W*168pcs = 504W
Draw Power	100W	180W	200W	300W
IP Rating	IP54 / IP65 Front Lense	IP54 / IP65 Front Lense	IP54 / IP65 Front Lense	IP54 / IP65 Front Lense
Photosynthetic Photon Flux (PPF)	170 μ mol/s	306 μ mol/s	340 μ mol/s	510 μ mol/s
Photosynthetic Photon Flux Density (PPFD)	$\geq 365 \mu$ mol/m ² /s @ 0.3M	$\geq 540 \mu$ mol/m ² /s @ 0.3M	$\geq 610 \mu$ mol/m ² /s @ 0.3M	$\geq 890 \mu$ mol/m ² /s @ 0.3M
Lifespan (up to)	50,000	50,000	50,000	50,000
LED Spectrum Wavelength	Red & Blue - Customisable	Red & Blue - Customisable	Red & Blue - Customisable	Red & Blue - Customisable
Input Voltage	AC85~265V 50/60HZ	AC85~265V 50/60HZ	AC85~265V 50/60HZ	AC85~265V 50/60HZ
Working Temp	- 20°C to 40°C	- 20°C to 40°C	- 20°C to 40°C	- 20°C to 40°C
Beam Angle	120°	120°	120°	120°
Power Factor	>0.95	>0.95	>0.95	>0.95
LED Quantity	55	100	120	168
Weight	2KG \pm 5%	2.7KG \pm 5%	2.7KG \pm 5%	6.65KG \pm 5%



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