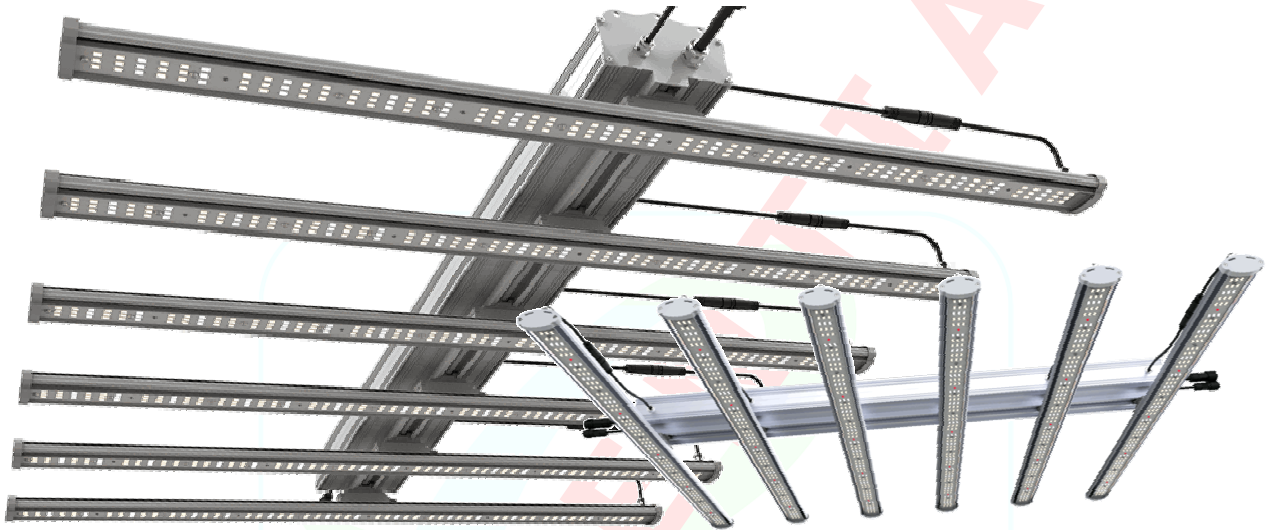


ARANHA-670TM and ARANHA-1000TM 670W & 1,000W LED Grow-lights

EconoLux introduces the ARANHATM series of LED Grow Lights, which are ideal for all types of growing application including vertical farming, hydroponics, aquaponics and shelf growing, where medium to high power, compact format, LED grow lights, with high PPFD are needed. The ARANHATM series comes equipped with 0-10V dimming built in.

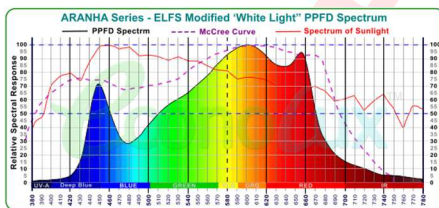


INCREASED YIELDS

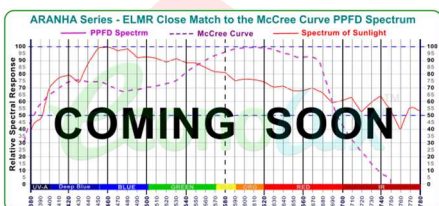


The ARANHATM LED Grow light series have been tested in various greenhouses where they produced better crops in less time than competing typical blue/red/pink LED grow-lights. This is due to their improved spectrum that has a 70% match to the McCree curve (ELFS), and a high efficiency of 2.6 $\mu\text{moles/J}$ - similar competing lights usually have only a 66% match to the McCree curve and efficiencies of 2.4 $\mu\text{moles/J}$ (or less).

SPECTRA



The ARANHA-670 and ARANHA-1000 lights are available with a standard ELFS spectrum which is based on the popular modified 'White Light', good enough full spectrum, with output throughout the PAR range from 400nm to 750nm. This spectrum has a good balance between the ideal spectrum (McCree curve) and cost, with a 70% match to the McCree curve.



COMING SOON

The ARANHA-670 and ARANHA-1000 LED grow-lights will also be available with a spectrum that has a closer match to the McCree curve (80% to 85%). The McCree curve is the spectral curve that scientists have determined is the best for growing a variety of crop plants. The extra UV and blue light provided in the ELMR spectrum is ideal for growing micro-greens or leafy green plants such as lettuce, kale, arugula, etc., and for cloning and germination of all types of plants.

ADVANCED LED TECHNOLOGY

The ARAAHA-670™ and ARANHA-1000™ LED grow lights utilize the latest in high-efficiency SMT LEDs to maximise PAR/PPFD output. There are more LEDs than needed, that gives us the opportunity to de-rate the array, which extends the lifespan of the LEDs - we offer a 3 year warrantee.

The ARANHA Series are built with the most advanced, proprietary, LED technology to insure maximum PAR/PPFD output, wide beam-spread, of 120 degrees, even lighting, long service life, and maximum energy savings.



PASSIVE COOLING AND RUGGED CONSTRUCTION



The housings of the ARANHA™ series LED lights are carefully designed with a large heat-sink area on the back for effective passive cooling - this means no noisy, high maintenance, fans. With an IP-65 water and dust proof rating, they are ideal for use in the high humidity conditions found in greenhouses. The ARANHA-670™ and ARANHA-1000™ are equipped with built-in RoHS/CE/ETL approved, IP65, LED drivers which feature universal power input of 100VAC to 270VAC, 50/60 Hz - they can operate almost anywhere in the world.

MAXIMUM ENERGY AND MAINTENANCS SAVINGS

The ARANHA™ series LED grow lights can save energy costs compared to conventional grow lights, while increasing crop yields. The ARANHA-670™ can replace a 1,000W HPS lamp and the ARANHA-1000™ can replace 1,500W of HPS lamps - a 39% power saving, while saving time and money on maintenance as the annual bulb changes required by typical conventional lights is not needed anymore since the LEDs will last 50,000 hours.

The ARANHA™ series includes built in dimming, controlled by the most usual 0~10V input, so you can give your plants the light they need, or fade-in and fade-out the lights to simulate sunrise and sunset light levels.

MODELS - DIMENSIONS & WEIGHTS*



The ARANHA™ LED grow lights are available in two models depending on the desired output power (670W or 1,000W).

DIMENSIONS: 106.7cm [42.0in] long, 100.3cm [39.5in] wide, and 2.85cm [1.12in] high - 12.9cm [5.0in] high.

WEIGHTS: ARANHA-670™ 12.9Kg (28.35Lbs) - ARANHA-1000™ 18.2Kg (39.7lbs)

MODEL & McCree Curve Match	WATTAGE	Output PAR/PPFD	Efficiency
ARANHA-670-ELFS - 70%	670 Watts	1,742 µmoles/s	2.6 µmoles/J
ARANHA-1000-ELFS - 70%	1,000 Watts	2,600 µmoles/s	2.6 µmoles/J

* Based on prototypes - specifications subject to change due to continuous product improvement

CUSTOMIZATION

The spectrum of the ARANHA™ Series of LED Grow-lights can be modified/customized to suit your needs (subject to MOQ). The ARANHA™ series can also be customized with your logo, brand-name, and model name/number (subject to MOQ).