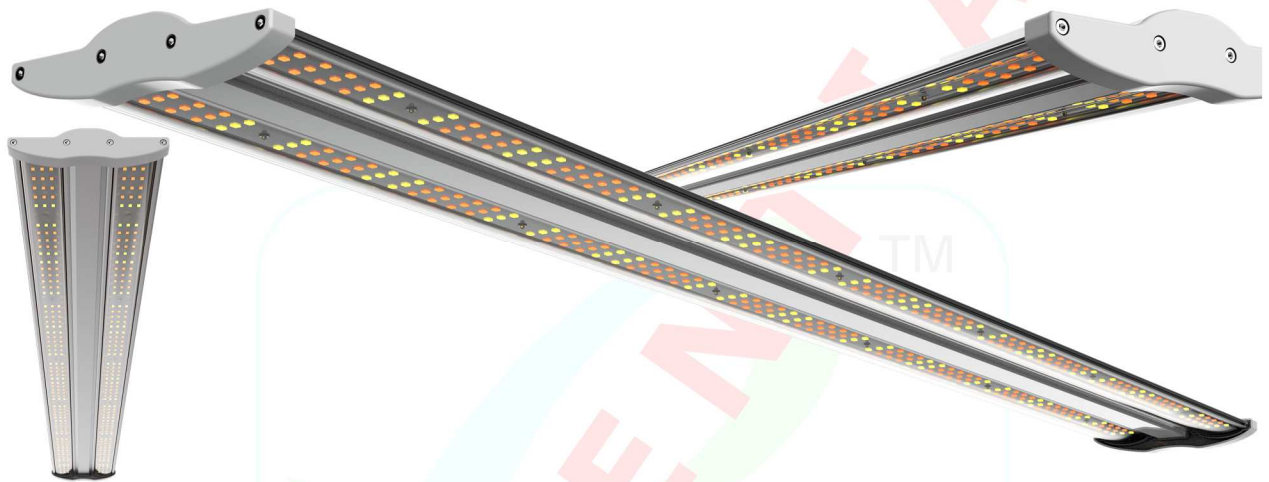


## VertiFarm-40™ and VertiFarm-60™ 40W AND 60W VERTICAL FARMING AND HYDROPONICS Linear Grow-lights

EconoLux introduces the VertiFarm™ series of LED Grow Lights, which are ideal for vertical farming, hydroponics, aquaponics and shelf growing applications due to their low profile space saving configuration (only 2.85 cm high), and the wide light output beam, with even light distribution and high PAR/PPFD.

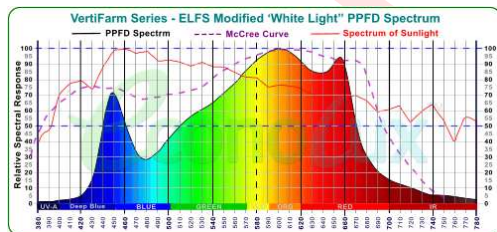


### INCREASED YIELDS

The VertiFarm™ series of LED Grow lights have been tested in a Hong Kong's aquaponics greenhouse, where they grew lettuce to full size in 30 days, with improved coloration, taste and texture compared to lettuce grown under competing lights.

The VertiFarm-40 and VertiFarm-60 LED lights are also in use with NFT (Nutrient Film Technology) vertical grow tubes for the cultivation of herbs and Chinese medicinal plants.

### SPECTRA



The VertiFarm-40 and VertiFarm-60 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.



The VertiFarm Series of 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.

## LED ARRAY AND ADVANCED LED TECHNOLOGY

The VertiFarm-40 and VertiFarm-60 LED grow lights utilize the latest in high-efficiency SMT LEDs to maximise PAR/PPFD output. There are more LEDs than needed, but this gives us the opportunity to de-rate the array, which extends the lifespan of the LEDs, so we can offer a 3 year warrantee.

The VertiFarm Series Grow-lights are built with the most advanced, proprietary, LED technology to insure maximum output, custom spectra, long service life, and maximum energy savings.



## PASSIVE COOLING AND RUGGED CONSTRUCTION

The housing of the VertiFarm<sup>TM</sup> LED lights is carefully designed with a large surface area on the back for effective passive cooling - this means no noisy, high maintenance fans. With an IP65 water and dust proof rating, they are well suited to the high humidity conditions found in greenhouses.

The VertiFarm-40 and VertiFarm-60 are equipped with built-in RoSH/CE/ETL approved, IP65, LED drivers which feature universal power input of 100VAC to 270 VAC, 50/60 Hz - they can operate almost anywhere in the world.

## MAXIMUM ENERGY AND MAINTENANCS SAVINGS

The VertiFarm<sup>TM</sup> LED grow lights can save at least 30%, and often more, in energy costs compared to conventional grow lights and fluorescent tubes - while increasing crop yields. They also save time and money on maintenance as the annual bulb changes required by typical conventional lights is not needed anymore.

These savings are available while providing the perfect size for use in vertical farming and shelf growing due to their low-profile, especially for germination, cloning, micro-greens and other leafy green plant cultivation.

## MODELS & DIMENSIONS\*



The EconoLux VertiFarm<sup>TM</sup> linear LED grow lights are available in various models depending on the desired output power.

**DIMENSIONS:** 122cm [49.0in ] long, 12.9cm [5.0in] wide, and 2.85cm [1.12in] high - (3.8cm [1.5in] high including the mounting clips).

**Weight:** 1 Kg (2.2 Lbs)

MODEL & McCree Curve Match	WATTAGE	Output PAR/PPFD	Efficiency#
VertiFarm-40-ELFS - 70%	40 Watts	92 $\mu$ moles/s	2.3 $\mu$ moles/J
VertiFarm-60-ELFS - 70%	60 Watts	150 $\mu$ moles/s	2.3 $\mu$ moles/J

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

# Higher efficiency models based on premium LEDs are also available - please inquire

## CUSTOMIZATION

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