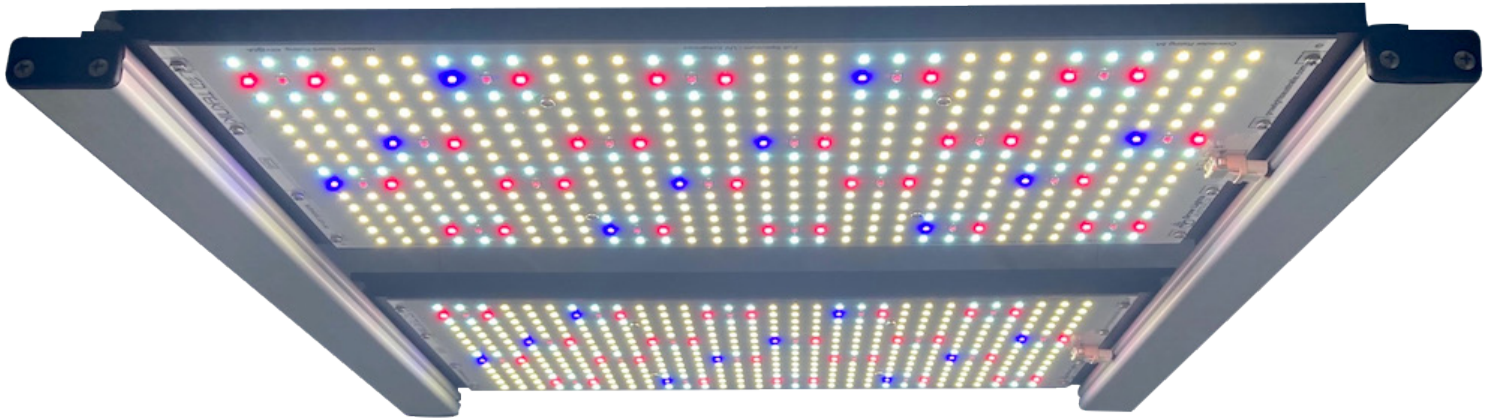


Grow Light Australia High Light 420 'Quad'



Whether it's an indoor tent or a room full of cultivation tables, the High Light 420 Quad is the perfect LED grow light to replace HPS/CMH lamps or cheap LED fixtures with inferior spectra.

Each Quad now comes with the new Gen3 spectrum and a custom 400W driver with onboard dimming (480W Mean Well dimmable drivers available as a special order).

The 400W Quad was designed from the ground up to be a direct 600W HPS/CMH replacement, but will go anywhere a 315-1000W HID normally goes. *It is the perfect size to illuminate tents from 0.8m x 0.8m, to 1m x 1m and 1.2m x 1.2m.*

The optional 550w version is a great budget option for 1.2m x 1.2m tents.

Pair them with Buddies side lighting for even better canopy coverage and penetration.

Designed and manufactured by Grow Lights Australia and LED Teknik, these quality fixtures have enhanced UVA and Far Red light that have been proven in grow rooms and greenhouses around the world to boost essential oils and yields.

The High Light 420 Quad is water-proof, slimline and one of the best LED grow lights on the market in terms of spectrum and efficiency. There is no need for supplementary UV or Far Red lighting – which reduces complexity and cost – as these lights provide a complete spectrum on one channel (one driver) with uniform coverage due to the evenly spaced diodes.

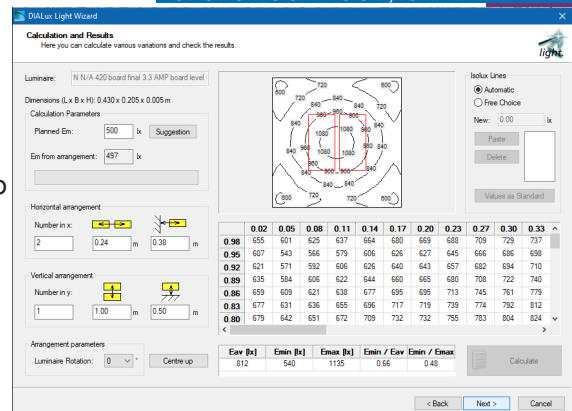
Colour Temperature

The latest Gen3 spectrum has a CCT of 2900-3000K and high CRI95, making it very close to sunlight. We have found this to be the best all-round spectrum for general growth, fruiting and flowering of most species, including ornamentals, shade plants and tropical varieties.

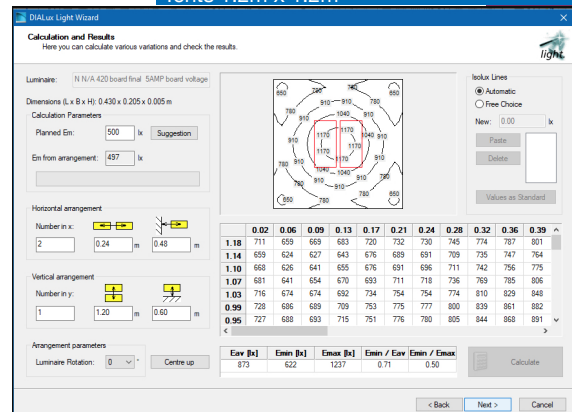
Deep Red and Far Red light are the keys to rapid growth as they enhance the Emerson Effect and produce larger leaves that absorb more light. They also accelerate the fruiting and flowering cycle. The addition of UVA promotes essential oils and prevents excessive stretch – meaning these lights are perfect for all stages of growth.

Covering the entire PAR+ spectrum from 390-780nm, this fixture has up to 3.19 umol/j LED efficiency and up to 2.7 umol/j system efficiency.

Tents from 0.8m x 0.8m, to 1m x 1m



Tents 1.2m x 1.2m



Grow Light Australia

High Light 420 'Quad'

Drivers

All High Light LED fixtures now feature an exclusive IP67 driver from uPowerTek with a fully waterproof digital dimmer that comes with an 8-year warranty! These drivers are custom-made for Grow Lights Australia and are the only LED power supplies on the market with waterproof dimmers. They are just as efficient and reliable as the previous Mean Well drivers.

We recommend mounting drivers remotely with the supplied 4.5m water-proof cable to reduce heat build-up in the LED panels and grow room (heat reduces LED efficiency), but they can also be mounted on top of the heatsink with an optional mounting bracket.

An optional Mean Well HLG-480H-48AB driver with dial dimmer can be ordered for up to 550W total power draw and is an ideal budget option for a 1.2m x 1.2m tropical flower tent. These drivers come with a seven-year manufacturer warranty and are usually stocked, but may be on back-order at times. Please note, the dial dimmers (1-10V potentiometer) are not water-proof, but are low voltage so safe to handle at all times.

Wattage

The decision to introduce a 400W driver for all larger LED fixtures is based on current lighting requirements, as it perfectly fills the gap between the previous 320W and 480W drivers, and can be run at 80-100% to cover most popular grow tent sizes.

The following guidelines will suit most tropical plant species. For shade plants, leafy greens and lower-light varieties, these wattages can be halved:

0.8m x 0.8m = 240-320W (60-80% dimmed)

1m x 1m = 320-420W (80-100% dimmed)

1.2m x 1.2m = 550W (Optional 480W Mean Well driver)

Quad Specs

Colour temp: 2900-3000K

Colour rendition: CRI95

Spectrum: PAR+ ("true" full spectrum) 390-780nm with 1% UVA and 10% Far Red

Driver: IP67 uPowerTek BLD-400 with push-button dimming

Water-resistant: Fully, from AC plug to LED panels

Total power draw: Up to 420W (uPowerTek 400W driver)

Total power draw: Up to 550W (Mean Well 480W driver)

Quad dimensions: 540mm x 500mm

Fixture weight: 4.3kg

DC Cable: 4.5m waterproof, chemical resistant

AC Cable: 1.8m waterproof

DC Voltage: Up to 48V

AC Voltage: 110-277V

LED Efficiency: Up to 3.19 umol/j

System efficiency: Up to 2.7 umol/j

Warranty: 5 years on LEDs, 7 years on Mean Well Drivers, 8 years on uPowerTek Drivers
