Lighting

Home Grown

**Issue 16** 



## The Telos Range Explained

Find out why these lights are taking the industry by storm!

Call us today on 0333 003 22 95

Buy online at growell.co.uk

Visit any of our **8 UK stores** 

Follow us on

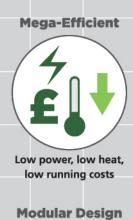
## Why choose a Telos LED light?

LED grow lights have been on the market for many years now, but previous models were never quite fit for purpose... this all changed with the launch of the Telos range! You can expect highly efficient, cool-running products – an absolute god-send during the hot summer months – plus so much more!



Holographic optics enable

complete crop uniformity





Easy to replace and upgrade LED's

#### LED Light Buyers' Guide

#### **Design: Compact vs. Vertical Stacking**

The compact Telos units have unique optics that project light in many directions for maximum coverage of the canopy. Vertical stacking designs are much bigger, more expensive and typically for multi-level gardens.

#### Light: PAR (umol) vs. PPF vs PPFD

All are valid but slightly different measurements! PAR is plant available light, PPF is the total amount of PAR light outputted per second and PPFD is the total amount of PAR light outputted per second over 1m x 1m.

#### **Heat: Convection vs. Radiant**

Like other LEDs, Telos lights give off heat via convection -i.e. it rises up - and this proves to be much easier to remove with your fan(s) than the radiant heat produced by HPS lights (which is directed over plants).

#### Results: Yields vs. Quality

The incredible light spectrum and colour rendering index/comparability to sunlight (85cri) of Telos lights guarantees better quality of fruits and flowers than HPS lights. Choose the right model(s) and yields will be fantastic too!



Dan

MyCO2 MyCO2

### Summer tips for Telos

With a Telos in your room, try the following:

Reduce extraction and intake rates (due to less heat), using a suitable fan controller. EC fan equipment will actually save you money at lower speeds!

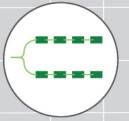
Reap the benefits of optimum CO<sub>2</sub> levels (lower extraction rates increase the time for CO<sub>2</sub> enrichment). Consider bagged, bottled or propane gas.

 Increase nutrient strength (less heat means less transpiration/ water loss within plants) to capitalise on extra growth potential.



Quiet, passive cooling with no fan

#### **Easily Expandable**



Link numerous lights using 1 power source

# Super-Reliable

Effective for 85,000 hours (up to 10 years)

#### **Quality Components**



Industry leading CREE LED's & Meanwell driver

#### LED vs. HPS - Cost Breakdown!

LED lights are famously efficient... but how much money can you save by using them? We did the maths and found out for you, comparing HPS lights against Telos LED units!

#### Save £181-299 a year vs. 600W magnetic HPS

|                        | 1x 0010 | 2x 0008 | 1x 600W HPS Mag |  |
|------------------------|---------|---------|-----------------|--|
| Power Usage            | 300W    | 480W    | 660W            |  |
| Electricity            | £197.57 | £316.11 | £434.65         |  |
| Replacement Reflectors | 0       | 0       | 1 x £18         |  |
| Replacement Lamps      | 0       | 0       | 3 x £14.95      |  |
| TOTAL                  | £197.57 | £316.11 | £497.50         |  |

#### Save £166-284 a year vs. 600W digital HPS

|                        | 1x 0010 | 2x 0008 | 1x 600W HPS Dig |
|------------------------|---------|---------|-----------------|
| Power Usage            | 300W    | 480W    | 636W            |
| Electricity            | £197.57 | £316.11 | £418.84         |
| Replacement Reflectors | 0       | 0       | 1 x £18         |
| Replacement Lamps      | 0       | 0       | 3 x £14.95      |
| TOTAL                  | £197.57 | £316.11 | £481.69         |

#### Save £384-463 a year vs. 1000W pro digi. HPS

|                        | 2x 0010 | 4x 0006 | 1x 1000W HPS Dig |
|------------------------|---------|---------|------------------|
| Power Usage            | 600W    | 720W    | 1060W            |
| Electricity            | £395.14 | £474.16 | £698.07          |
| Replacement Reflectors | 0       | 0       | 1 x £29.95       |
| Replacement Lamps      | 0       | 0       | 1 x £129.95      |
| TOTAL                  | £395.14 | £474.16 | £857.97          |

Energy cost calculations at 14p per kW

4 full cycles of 504 hours Veg + 672 hours Flower = 4,704 hours a year

- x light power usage = total Watts used a year
- /1000 = total kW per year x 0.14 = cost per year!

## How to switch to Telos LED lights

Switching from an HPS light (or a different LED light) to a Telos LED light is simple with the help of our light layout guide! It does all of the hard work for you, identifying the model type and amount that will suit your needs based on the size of growing area. See below for more details.

#### See more in-store!

Telos LED lights are up and running in every GroWell store! We continue to produce plenty of amazing crops with them!



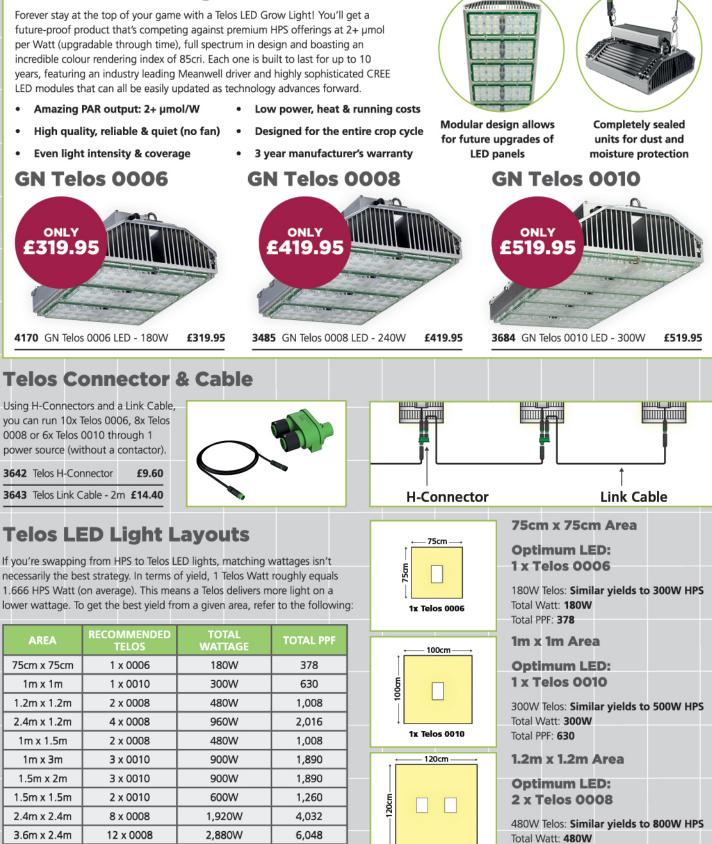
#### **Telos LED Grow Lights**

3m x 3m

9 x 0010

2,700W

5,670



2x Telos 0008

Total PPF: 1008

## **New Products Alert!**



