Project Knowledge – LED Plant Growth Lights by University of Manchester



BEFORE:

- 6 x 90 W, T12 Fluoro
- 540 W consumed
- £390 /year running cost

AFTER:

- I Units at £180 installed
- Post I20 W load reduced by 75%
- £1,064 /year savings
- Payback of I year
- 5.2 tCO₂ saved per year



Project completion date – June 2009



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Supporting Comments:

- One light covers 13 m² at a height of 1.2 m
- Less heat generated by LED so less cooling required in growth chambers
- 50,000 hour lifespan in comparison to 10,000 hour T12 lifespan
- Outputs light in 3 specific spectrums for optimal plant growth
- Red 660 nm, Blue 460 nm & Orange 612 nm

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