

West Virginia University Research: Outperforming HIDs & LEDs

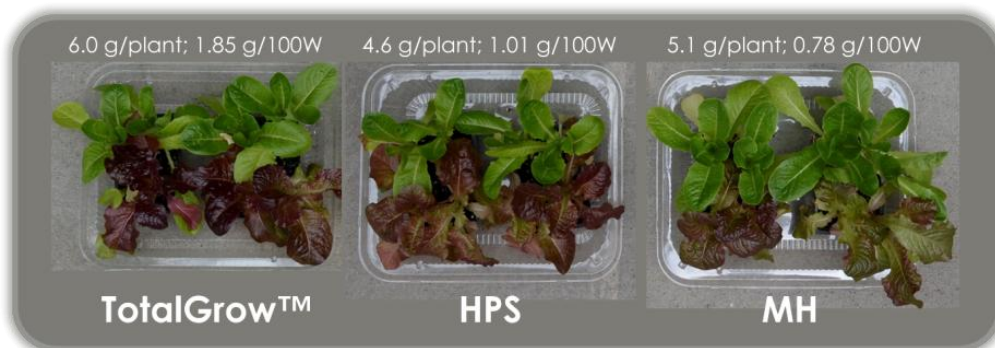
Basil, Tomatoes and Petunias Tests (Preliminary Study)

“All plants we have tested (petunia, basil, and tomato) looked healthier under your TotalGrow™ lighting and used far less energy than the competing light sources.”

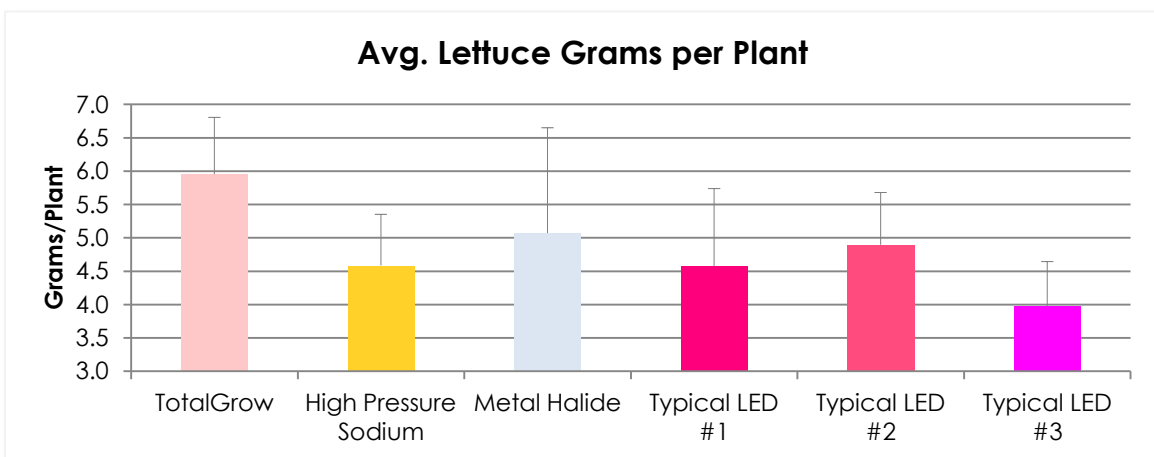
Professor of Horticulture Youyoun Moon, Ph.D.

Lettuce Tests (Outredgeous & Coastal Star):

- 30% greater yields per plant at equal light intensities across all treatments
- Excellent coloration and density, esp. vs. HID lighting

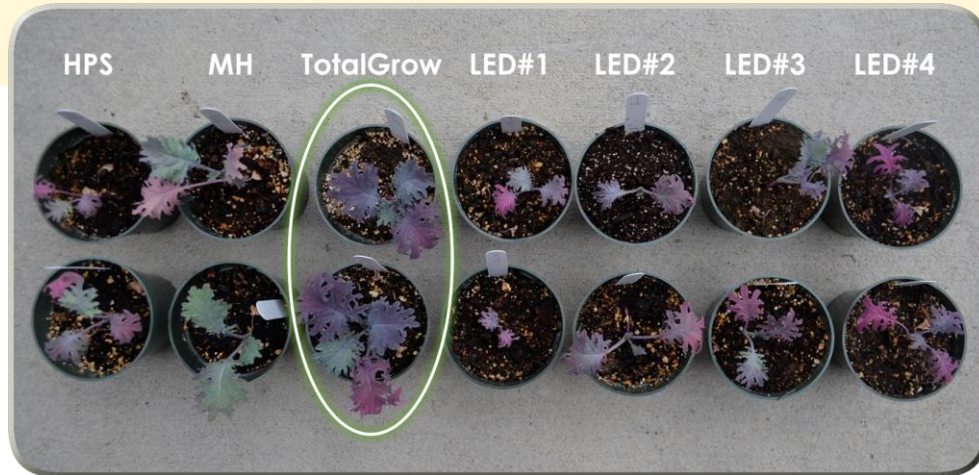


TotalGrow consumed 40% less power than HID lights on average and grew 111% more lettuce per watt with increased quality!

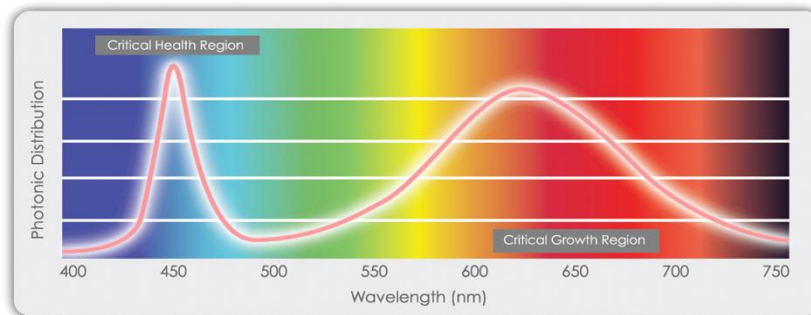


Kale Tests (Red Russian & Dwarf Blue Curled):

- Drastically greater growth and development than HID & LED competitors
- Excellent coloration and overall quality



All sets of tests compared equal light intensities from each light source (200 or 400 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$) to evaluate the light spectra.



Dr. Moon also reported several other great qualities to working with TotalGrow lights:

- Great overall fixture quality and sturdiness
- Pleasant working environment due to full spectrum illumination
- Very efficient energy consumption
- High brightness and uniformity potential for versatile applications
- Excellent interactions with TotalGrow staff

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All results preliminary.