

TotalGrow™ TG1A Broad Spectrum Grow Light vs. Fluorescents

- Enhanced Light Output
 - Just looking at quantity of photons being emitted that have potential to grow plants per watt of energy used, the TotalGrow™ TG1A Broad Spectrum Grow Light provides the following increase in output over fluorescents:
 - T5 – 64%
 - T8 – 80%
 - T12 – 138%
 - On top of this, the Broad Grow Spectrum Light spectrum is optimized to provide exactly what plants need while avoiding less efficient colors of light. This further enhances the increase in growing power per watt of electricity by about 10-50%. Average efficiency improvement potential due to the enhanced light output quality of TotalGrow™ Broad Spectrum Grow Lights are therefore:
 - T5 – 80%
 - T8 – 100%
 - T12 – 170%
 - Further efficiency advantages are generally achieved due to inefficient light delivery by fluorescent lights. Half of a fluorescent tube's output is directed in the wrong direction initially and can be lost due to reflector inefficiencies and tube interference.
- Enhanced Reliability
 - Expect at least 4X longer lifetimes out of TotalGrow™ than fluorescents, and often much more.
 - At the end of a fluorescent's life, it is burned out. At the end of a TotalGrow™ light's life, it is producing 70% of its initial output and is still very usable.
 - No ballasts needed which cause extra failures, decrease efficiency and create noisy hums for fluorescents.
- Environmentally Friendly
 - No mercury or other heavy metals to damage the environment or put people (or your crops) at risk with broken bulbs.
- Ergonomic
 - Small, 11W light bulbs that fit standard medium Edison light sockets and operate without ballasts allow for vast levels of flexibility in installation options.
 - The output pattern can easily and efficiently be used for interplant/intracanopy applications as well as almost any overhead light canopy application.