

EDUCATION YOU CAN EAT

20 Excellent Reasons to Use LED Grow Master Lighting in Your School

Safety

1. Minimal Environmental Hazard- LED Grow Master lighting contains no lead, mercury, or glass parts that are found in conventional plant lighting and are 100% recyclable at the end of their lifetime.
2. Low Voltage- Each LED Grow Master bar runs typically at less than 20 volts at the bulb as opposed to the 120VAC bulb typically in grow lights. This fact greatly reduces risk of shock in wet growing environments.
3. Lower Burn and Fire Risk - Our LED-based grow lights operate at just a few degrees above room temperature. Slightly warm to the touch while running even after 24 hour operation; eliminating burn and fire risks.

Low Operating Costs

4. Less Energy Use- Conventional grow lights consume between 100 watts and 1,000 watts of power to operate. Each LED Grow Master light uses less than 9 watts of power.
5. Longer Bulb Life- The expected LED Grow Master bulb life is 100,000 hours. This is ten to twenty times longer than typical glass grow light bulb life expectations. Replacing glass bulbs every year adds a lot to the expense of a growing system.
6. No Ballast- Fluorescent tubes and metallic vapor lamps all need a ballast to operate. Ballasts eventually burn out and must be replaced. Our lights do not require a ballast.
7. No Reflector- Conventional glass envelope grow lights emit light in all directions. In order to use as much of this light for plant growth as possible, these lights are generally fitted with bulky reflectors to direct light back toward the plants. With LEDs the reflectors are built right into the LEDs themselves, so no secondary reflector is needed.

Integrated Curriculum

8. Students will have hands-on experience with concepts such as evaporation, propagation, light, and biodiversity.
9. The LED Grow Master bars can be used as a platform to teach about soil, properties of light, weather, energy efficiency, plant life, nutrition, chemistry, ecosystems, land uses, environmental issues, insects, micro-organisms, cultures, and more.
10. Plants provide a context for understanding seasonality and life cycles.
11. Gardening experience reinforces classroom curriculum.
12. Creates the opportunity to teach life skills such as gardening and cooking.
13. Build Vocabulary

Student/ Teacher Interaction

14. It is an opportunity to work cooperatively on real tasks.
15. Provides opportunities for informal one-on-one time for teachers and students to talk.
16. Creates common experience to build on in multiple settings.
17. A school garden provides opportunities for community involvement.
18. Create a beautiful space that connects students to their school

Air Quality

19. Plants clean the air, making your school a more pleasant place to work and study.

Grow Anywhere

20. Each LED Grow Master bar weighs less than 1 pound. They can be mounted anywhere including tops of bookshelves, desks, or under counters. The light emitted from the LED Grow Master bars is barely perceptible to the human eye. There is no white light glare.

