Horticulture Lighting Group HLG-750-DIABLO

Horticulture Lighting Group HLG 750 Diablo 730W LED Grow Light User Manual

Model: HLG-750-DIABLO | Brand: Horticulture Lighting Group

1. Introduction

This manual provides essential information for the safe and efficient operation of your Horticulture Lighting Group (HLG) 750 Diablo 730W LED Grow Light. The HLG 750 Diablo is designed for indoor plant cultivation, offering a plant-centric white spectrum with deep red light to support all growth stages. It features a high Photosynthetic Photon Flux (PPF) output of over 2000 µmol/s and a photon efficacy of 2.86 µmol/J, ensuring optimal light delivery for your plants. Please read this manual thoroughly before installation and use.
Key features include:

- Over 2000 PPF output with 2.86 µmol/J photon efficacy.
- Integrated reflectors to improve PPFD levels across the canopy.
- Reliable passive-cooled design for silent operation and longevity.
- Dimmable power supply included for adjustable light intensity.

2. Safety Information

WARNING: Read all safety warnings and instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Always ensure the power supply is disconnected before installation, cleaning, or maintenance. Do not operate the light with damaged cords or if the fixture is compromised.
- **Installation:** Install the fixture securely to prevent it from falling. Ensure adequate ventilation around the fixture to maintain optimal operating temperatures.
- **Eye Protection:** Do not look directly at the operating LED lights. Prolonged exposure to intense light can cause eye strain or damage. Protective eyewear is recommended.
- **Water Exposure:** This product is not waterproof. Avoid direct exposure to water or high humidity environments unless specifically designed for such conditions.
- **Operating Temperature:** Ensure the operating environment is within the recommended temperature range to

prevent overheating.

3. Package Contents

Verify that all components are present in the package:

- HLG 750 Diablo LED Grow Light Fixture
- Dimmable Power Supply (pre-installed or separate)
- Hanging Hardware (e.g., adjustable rope hangers, carabiners)
- Power Cord

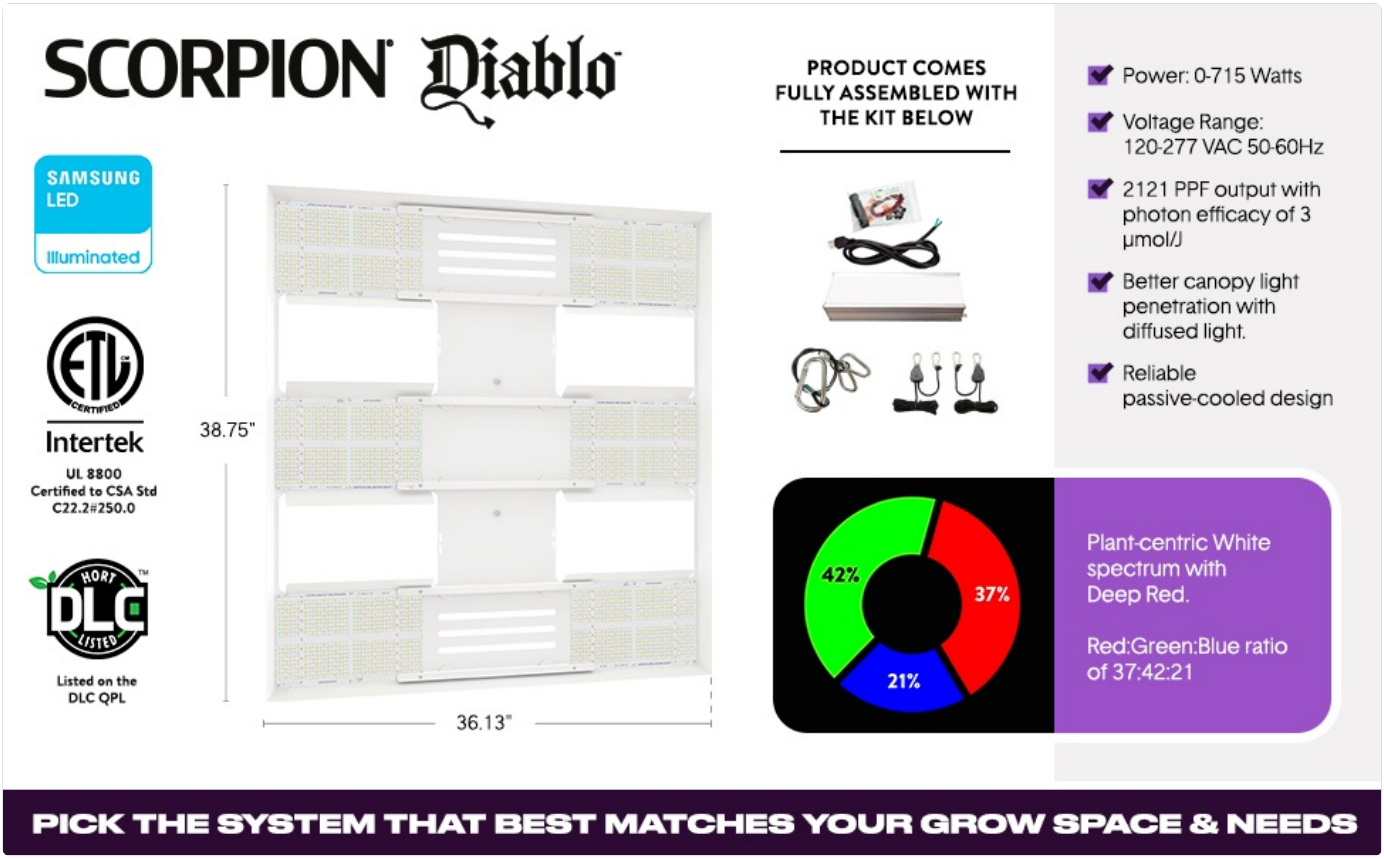


Figure 1: HLG 750 Diablo LED Grow Light with its components, including the fixture, power supply, and hanging accessories.

4. Setup and Installation

Follow these steps to properly set up your HLG 750 Diablo LED Grow Light:

1. **Unpack:** Carefully remove all components from the packaging. Inspect the fixture for any signs of damage during shipping.
2. **Choose Location:** Select a suitable location for your grow light, ensuring it is a dry area with adequate air circulation. The fixture is designed for ceiling mount installation.
3. **Mounting:** Securely attach the hanging hardware to a sturdy support structure (e.g., ceiling joists, grow tent frame). Use the provided adjustable rope hangers to suspend the light fixture. Ensure the light is level and at the desired height above your plant canopy.



Figure 2: The HLG 750 Diablo fixture shown suspended, illustrating its ceiling mount design.

4. **Connect Power:** Plug the power cord into the dimmable power supply, then connect the power supply to a standard 120V electrical outlet. Ensure all connections are secure.
5. **Adjust Height:** For optimal plant growth, adjust the hanging height according to your plant's growth stage and light intensity requirements. Refer to cultivation guides for specific plant needs.



Figure 3: An example of HLG grow lights installed in a commercial indoor growing environment, demonstrating typical setup.

5. Operating Instructions

The HLG 750 Diablo is designed for ease of use with its integrated dimmable power supply.

- **Power On/Off:** Once connected to a power source, the light will turn on. To turn off, disconnect from the power source or use a timer (not included).
- **Dimming:** Use the integrated dimmer on the power supply to adjust the light intensity. Rotate the knob to increase or decrease the brightness to suit your plants' needs at different growth stages.
- **Spectrum:** The HLG 750 Diablo features a plant-centric white spectrum with deep red light, optimized for full-cycle growth. The Red:Green:Blue ratio is approximately 37:42:21.

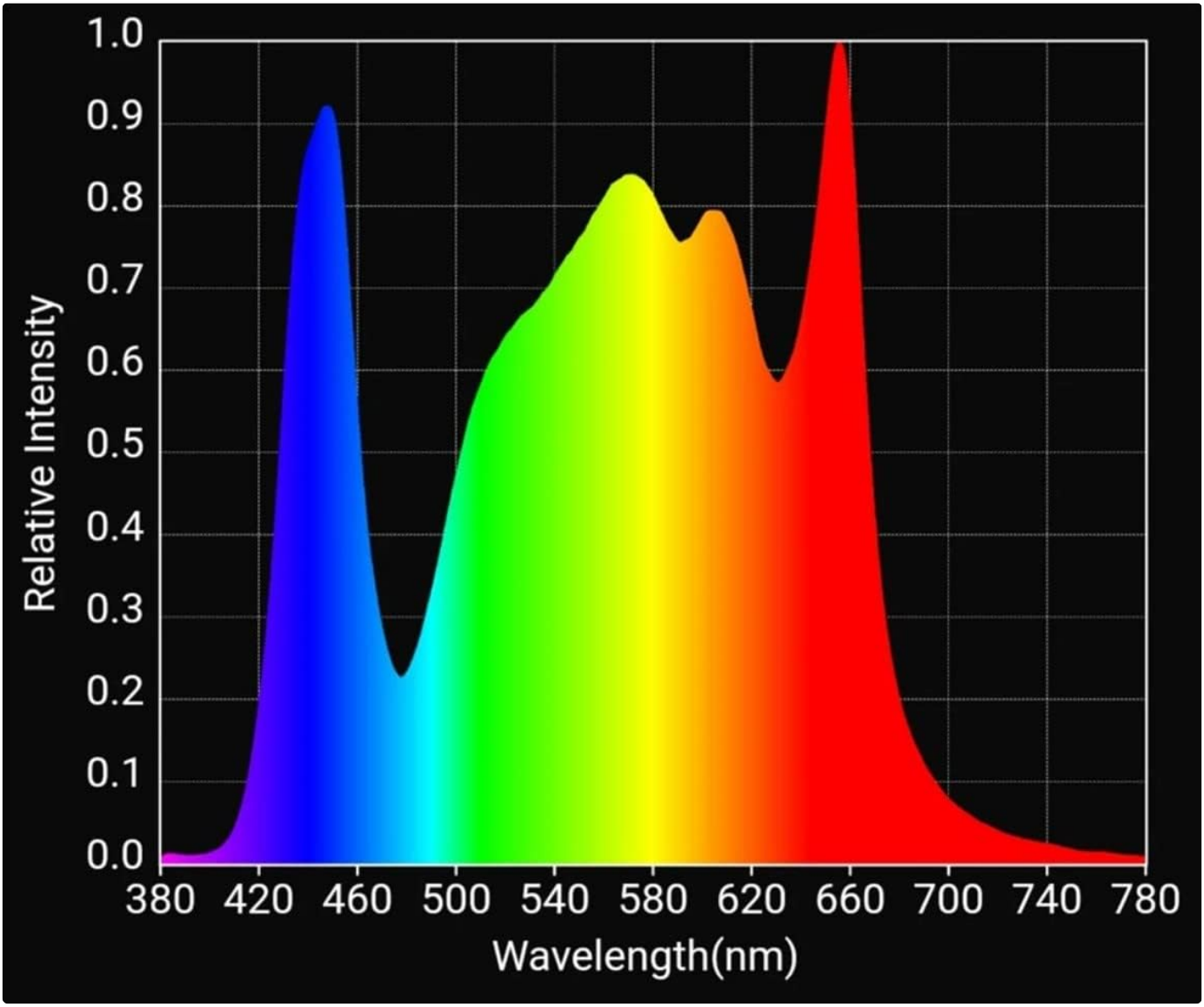


Figure 4: Spectral distribution graph of the HLG 750 Diablo, illustrating the intensity across various wavelengths from blue to deep red.

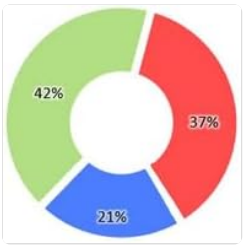


Figure 5: A visual representation of the Red:Green:Blue light ratio (37:42:21) provided by the HLG 750 Diablo.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your grow light.

- **Cleaning:** Periodically clean the LED boards and reflectors with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged and cool before cleaning. Do not use liquid cleaners directly on the LEDs.
- **Inspection:** Regularly inspect the power cord, dimmer, and hanging hardware for any signs of wear or damage. Replace any damaged components immediately.
- **Ventilation:** Ensure that the passive cooling fins are not obstructed to allow for proper heat dissipation.

7. Troubleshooting

If you encounter issues with your HLG 750 Diablo, refer to the following common troubleshooting steps:

- **Light Not Turning On:**
    - Check if the power cord is securely plugged into both the fixture and the electrical outlet.
    - Verify that the electrical outlet is functional by plugging in another device.
    - Ensure the dimmer is not set to its lowest (off) position.
- **Light is Dim or Flickering:**
    - Adjust the dimmer knob to increase brightness.
    - Check for loose connections in the power supply or wiring.
    - Ensure the light is receiving stable voltage (120V).
- **Overheating:**
    - Ensure there is adequate airflow around the fixture and that cooling fins are not blocked.
    - Verify the ambient room temperature is within acceptable limits for LED operation.

If problems persist after attempting these steps, please contact Horticulture Lighting Group customer support for further assistance.

8. Specifications

Feature	Specification
Model Number	HLG-750-DIABLO
Power Consumption	715 Watts
Voltage	120 Volts (100-277 VAC 50-60Hz)
PPF Output	Over 2000 µmol/s
Photon Efficacy	2.86 µmol/J (up to 3.0 µmol/J)
Light Source Type	LED (Samsung White Light Full Spectrum and 660nm Red)
Spectrum	Plant-Centric White with Deep Red (Red:Green:Blue Ratio of 37:42:21)
Dimming	Yes, Dimmable Power Supply Included
Mounting Type	Ceiling Mount
Product Dimensions	27.13 x 27.13 x 37.5 inches

Feature	Specification
Item Weight	27.4 pounds (12.47 Kilograms)
Finish Type	White
Shade Material	Metal
UPC	850019573244

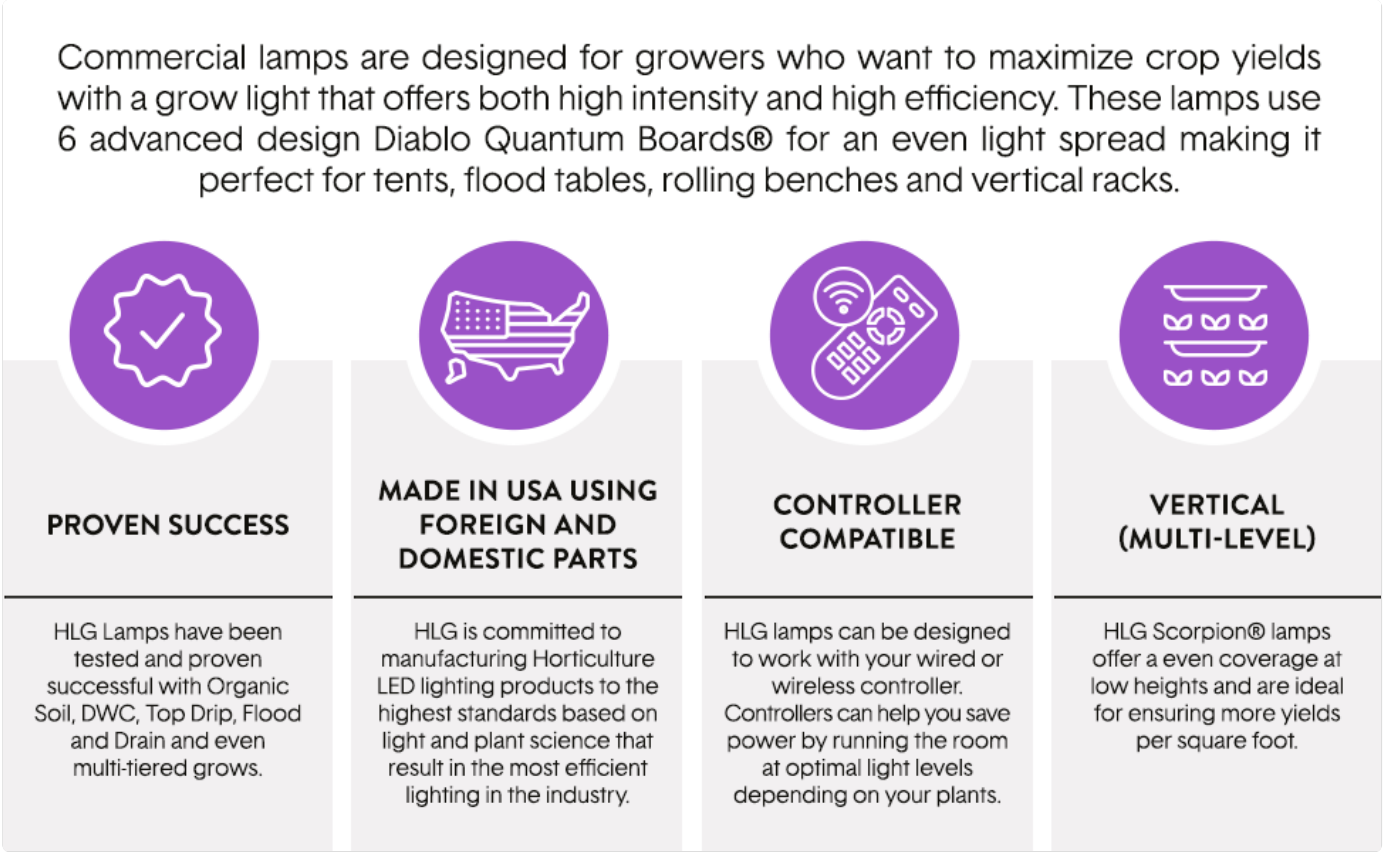


Figure 6: Overview of HLG product features, including manufacturing details and compatibility.

9. Warranty and Support

The Horticulture Lighting Group HLG 750 Diablo LED Grow Light comes with a**5-Year Warranty**, covering defects in materials and workmanship under normal use. For warranty claims or technical support, please contact Horticulture Lighting Group directly through their official website or the retailer from whom the product was purchased.
For further assistance, please visit the Horticulture Lighting Group Store on Amazon.

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