

Horticulture Lighting Group HLG 65 V2

Horticulture Lighting Group HLG 65 V2 4000K 65W LED Quantum Board Grow Light User Manual

Model: HLG 65 V2

1. INTRODUCTION

The Horticulture Lighting Group HLG 65 V2 is a high-efficiency LED quantum board grow light designed for optimal plant growth. Featuring 120 Samsung LM301H LEDs, this unit provides a 4000K white light full spectrum, ideal for the vegetative stage, clones, supplemental lighting, or small plant cultivation. It delivers 10,000 lumens with a power consumption of only 65 watts and incorporates a passive cooling design for efficient heat management. This product is designed and assembled in the USA.

2. SAFETY INSTRUCTIONS

- This product is intended for **indoor use only**. Do not expose to water or high humidity environments.
- **Do not look directly at the LEDs** when the light is operating, as intense light can cause eye strain or damage.
- Ensure adequate ventilation around the light fixture to maintain optimal operating temperatures and prevent overheating.
- Always disconnect the power supply before cleaning, inspecting, or performing any maintenance on the unit.
- Handle the power connector with care to avoid damage.
- Keep the light away from flammable materials.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- HLG 65 V2 LED Quantum Board Grow Light

- Power Cord
- Hanging Hardware (wires and carabiners)



Image: The HLG 65 V2 LED Grow Light, showing the main board, attached power cable, and included hanging wires with clips.

4. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Inspect the light for any visible damage.
2. **Mounting:** Attach the provided hanging hardware to the designated points on the light fixture. Securely hang the light in your grow area using appropriate ceiling hooks or a grow tent frame. Ensure the light is level and stable.
3. **Power Connection:** Connect the power cord to the light fixture and then plug it into a standard 120V electrical outlet.
4. **Placement and Height:** For optimal performance, consider the following recommended footprints:
 - **Flowering:** 2x1 ft or 1x2 ft
 - **Vegetative:** 2x2 ft

Adjust the hanging height based on the growth stage of your plants. Refer to the PPFD chart for guidance on light intensity at various distances.



Image: The HLG 65 V2 LED Grow Light suspended inside a grow tent, illuminating several potted plants.

PPFD (Photosynthetic Photon Flux Density) $\mu\text{mol}/\text{m}^2/\text{s}$

LAB TESTED RESULTS

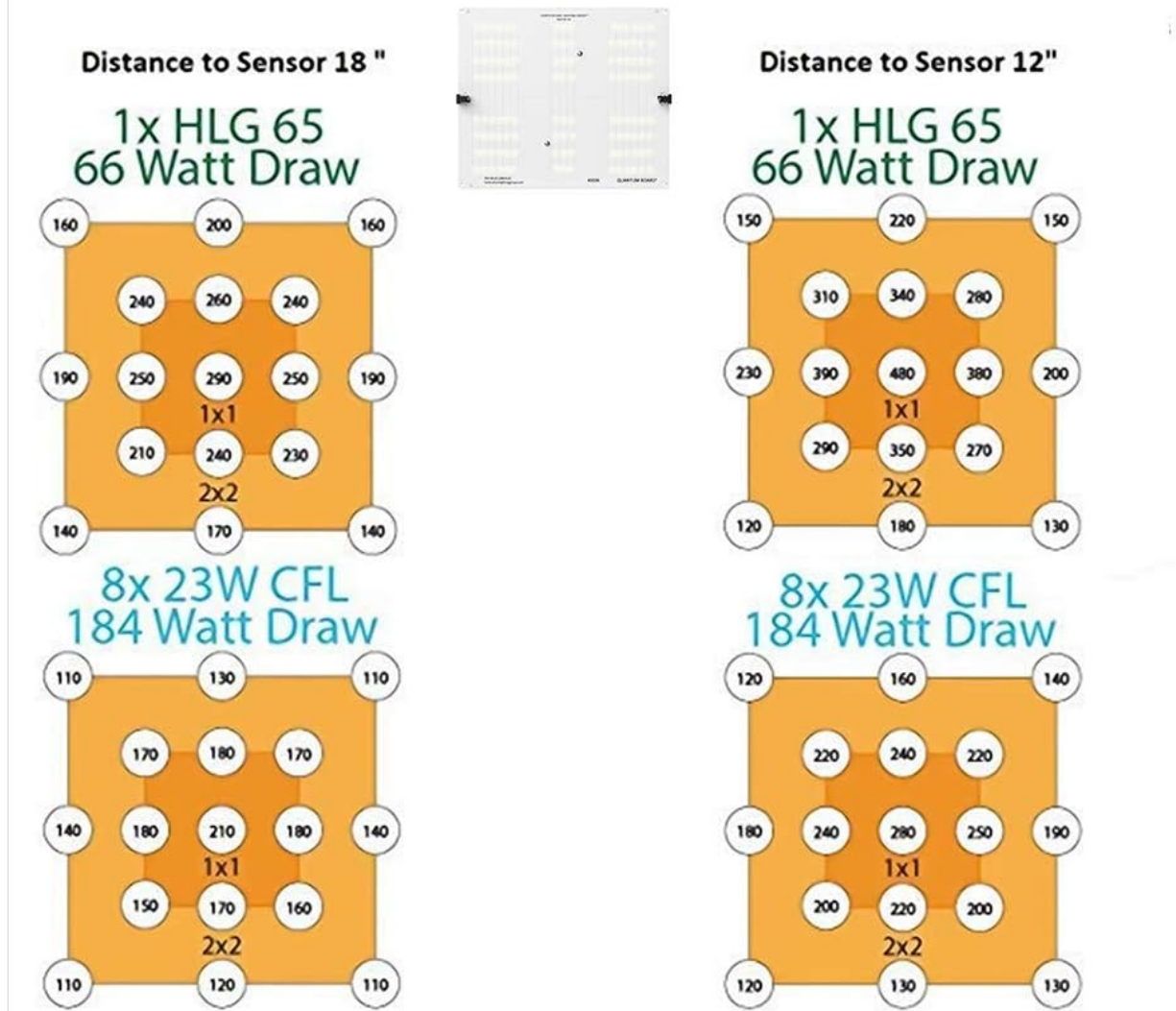


Image: A chart displaying Photosynthetic Photon Flux Density (PPFD) measurements for the HLG 65 V2 at 18-inch and 12-inch distances, comparing it to CFL output.

5. OPERATING INSTRUCTIONS

- Power On/Off:** Once plugged in, the light will turn on. To turn off, unplug the power cord from the outlet.
- Light Spectrum:** The HLG 65 V2 provides a 4000K white light spectrum, which is optimized for the vegetative growth phase of plants. This spectrum promotes strong stem and leaf development.
- Dimmable Feature:** This light is designed to be dimmable. If you wish to adjust the light intensity, an external dimmer (sold separately) can be connected to the unit. Refer to the dimmer's instructions for proper installation and use.
- Light Cycle:** Establish a consistent light cycle appropriate for your plants' growth stage. For vegetative growth, a common cycle is 18 hours of light and 6 hours of darkness.

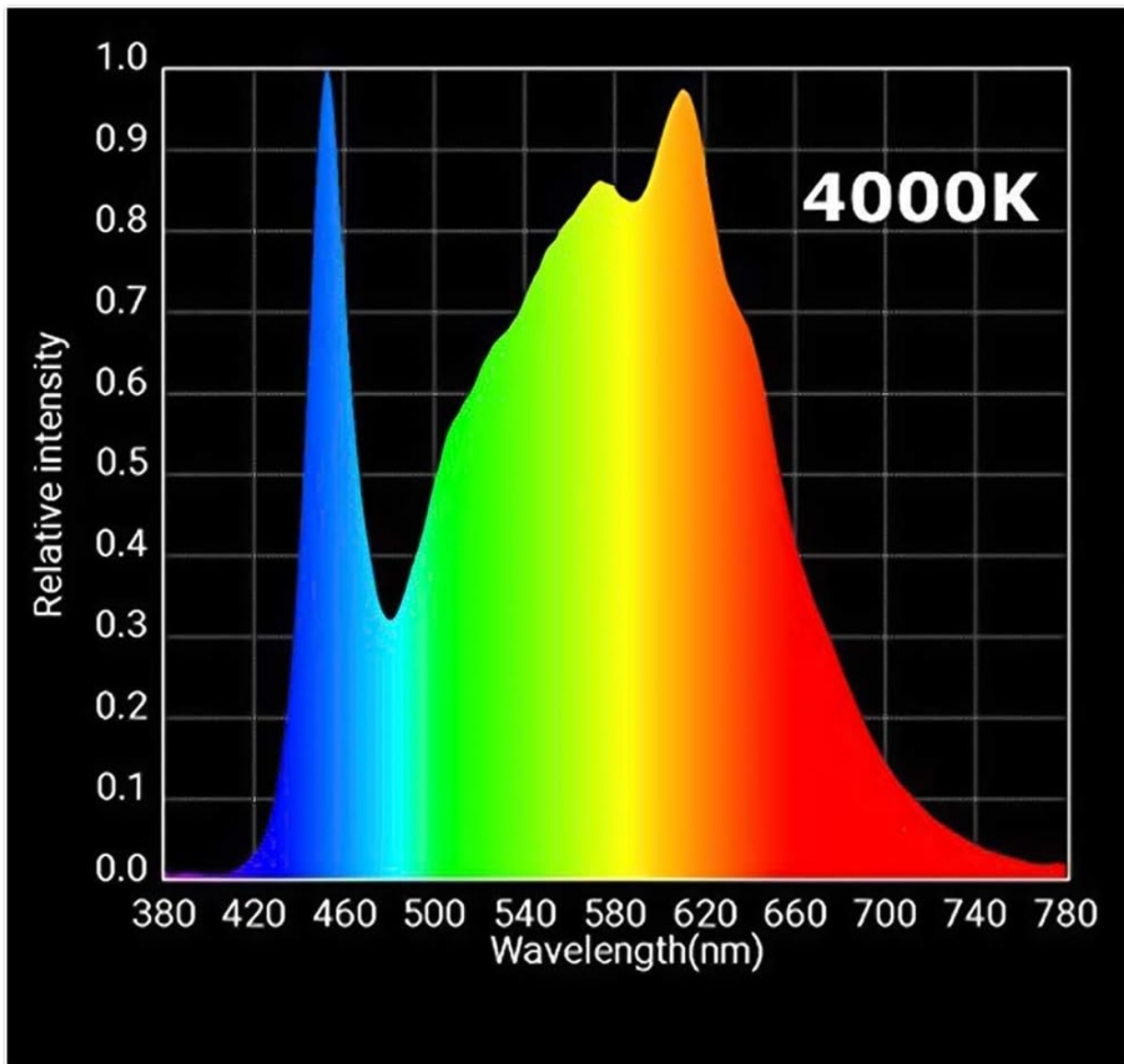


Image: A graph illustrating the relative intensity of the 4000K light spectrum across different wavelengths (nm).

6. MAINTENANCE

- **Cleaning:** Periodically, gently wipe the surface of the LED board with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged before cleaning. Do not use liquid cleaners directly on the LEDs.
- **Inspection:** Regularly check all electrical connections and hanging hardware for security and signs of wear.
- **Airflow:** Ensure that the passive cooling fins are not obstructed to allow for proper heat dissipation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on	No power to the unit; loose connection	Check if the power cord is securely plugged into both the light and the electrical outlet. Test the outlet with another device.

Problem	Possible Cause	Solution
Light is dim or flickering	Faulty dimmer (if used); unstable power supply	If using an external dimmer, ensure it is functioning correctly or bypass it to test the light directly. Check power supply stability.
Unit feels excessively hot	Insufficient ventilation; obstructed cooling fins	Ensure there is adequate airflow around the light. Clear any obstructions from the cooling fins.

8. SPECIFICATIONS

- **Brand:** Horticulture Lighting Group
- **Model:** HLG 65 V2
- **Wattage:** 65 Watts
- **LEDs:** 120 Samsung LM301H
- **Color Temperature:** 4000K
- **Lumen Output:** 10,000 lumens
- **PPF:** 152 PPF at 2.35 $\mu\text{mol}/\text{j}$
- **Dimensions (Light Unit):** Approximately 11"L x 9.5"W x 2"H
- **Input Voltage:** 120 Volts
- **Indoor/Outdoor Usage:** Indoor
- **Special Feature:** Dimmable (requires external dimmer)
- **Item Weight:** 2.75 Pounds
- **Material:** Metal (Heat Sink), LED



Image: A detailed view of the power supply unit connected to the HLG 65 V2 quantum board.

9. WARRANTY AND SUPPORT

The Horticulture Lighting Group HLG 65 V2 comes with a **3-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further inquiries, please refer to the official Horticulture Lighting Group website or contact their customer service directly. Contact information can typically be found on the manufacturer's website or product packaging.

Manufacturer: Horticulture Lighting Group