

Phlizon PH-S10

Phlizon PL1000 (PH-S10) Dimmable Full Spectrum LED Grow Light User Manual

Model: PH-S10 | Brand: Phlizon

1. INTRODUCTION

The Phlizon PL1000 (PH-S10) is a dimmable, full-spectrum LED grow light designed for indoor plant cultivation. It features high-efficiency Samsung LM281B LEDs, including UV and IR diodes, to support all stages of plant growth from germination to flowering. This manual provides essential information for safe installation, operation, and maintenance of your grow light.

2. SAFETY INSTRUCTIONS

- Always disconnect the power supply before installation, cleaning, or maintenance.
- This product is designed for indoor use only. Do not expose to direct water spray or high humidity environments.
- Avoid direct eye exposure to the LEDs when the light is on. Wear protective eyewear if necessary.
- Ensure proper ventilation around the light fixture to prevent overheating.
- Do not attempt to disassemble or modify the light fixture. This will void the warranty and may cause electrical hazards.
- Keep the light away from flammable materials.
- Ensure the hanging system is securely installed and can support the weight of the fixture.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Phlizon PL1000 LED Grow Light Fixture
- 1 x Power Cord
- 2 x Adjustable Rope Hangers
- 2 x Steel Wire Hangers

SPECIFICATIONS & PACKING



MODEL / PL1000

WATTAGE / 100W

CONTROLLER / DIMMABLE

COVERAGE / 2x4 ft

LED COUNT / 268 Diodes

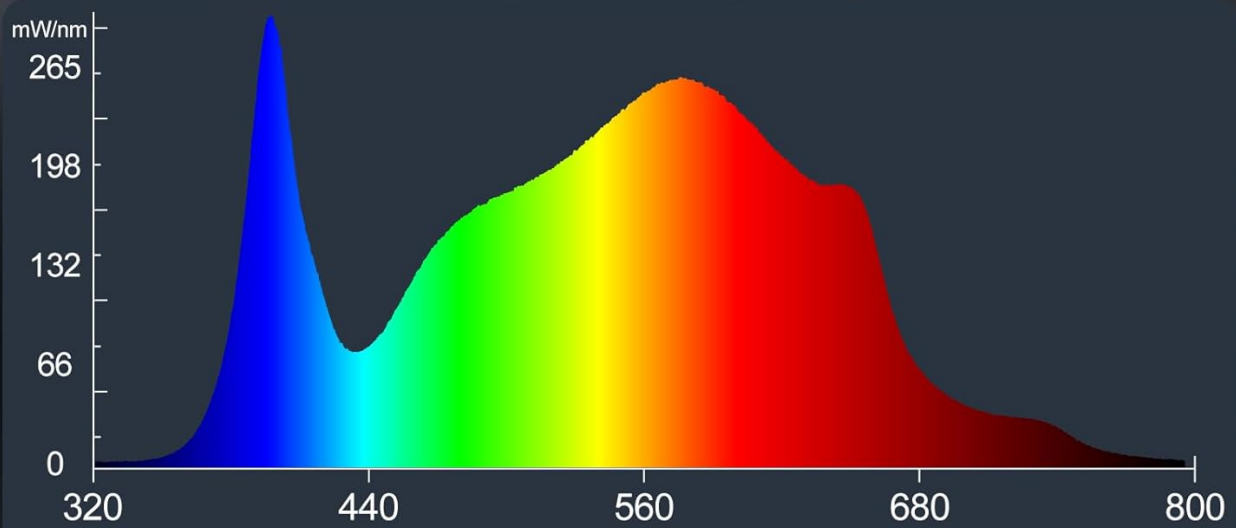
Figure 1: Detailed specifications for the Phlizon PL1000, including model, wattage, controller type, LED count, and coverage area, along with a visual representation of the power cord and rope hangers.

4. PRODUCT FEATURES

- **High-Quality Manufacturing:** Constructed with durable aluminum and equipped with Samsung LM281B LED chips for superior quality and reliability.
- **Full Spectrum with UV & IR LEDs:** Features 268 LEDs, including 150pcs 3000K, 86pcs 6500K, 24pcs 660nm red, 4pcs UV, and 4pcs IR LEDs, providing a comprehensive spectrum for optimal plant growth.
- **Dimmable Design:** The light intensity can be adjusted via a dimmer knob to suit the specific needs of plants at different growth stages.
- **Energy Efficiency:** Consumes only 100W while offering light efficacy up to 2.8 $\mu\text{mol}/\text{W}$ and a PPFD value of 500 $\mu\text{mol}/\text{m}^2$ at 18 inches, making it an energy-efficient alternative to traditional 1000W HPS/MH lights.
- **Zero Noise & Waterproof Function:** Designed without fans for silent operation. The light board utilizes sealing technology and an advanced waterproof external power supply, making the entire unit water-resistant.

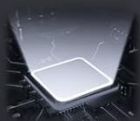
FULL SPECTRUM

with 268PCS LED



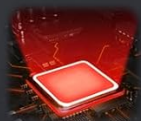
3000K

Warm White Light
Boost Blooming



6500K

Pure White Light
Promotes Germination



660nm

Rich Red Light
Increase Yields



730nm IR

IR 730nm
Promotes Flowering



UV 400nm

UV 400nm
Reduce Mildew

Figure 2: A graph illustrating the full spectrum light output of the Phlizon PL1000, including 3000K, 6500K, 660nm Red, 730nm IR, and 400nm UV LEDs, optimized for various plant growth stages.

5. SETUP

1. **Unpack:** Carefully remove the grow light and all accessories from the packaging. Inspect for any damage.
2. **Attach Hangers:** Connect the steel wire hangers to the four corners of the light fixture. Then, attach the adjustable rope hangers to the steel wires.
3. **Hang the Light:** Securely hang the light fixture in your desired growing area using the adjustable rope hangers. Ensure the light is level and stable.
4. **Connect Power:** Plug the provided power cord into the light fixture's power input port and then into a suitable electrical outlet.



Figure 3: The Phlizon PL1000 LED Grow Light, showcasing its compact design and the included hanging kit, power cord, and rope hangers.

6. OPERATING INSTRUCTIONS

1. **Power On/Off:** Once connected to power, the light will turn on. There is no separate on/off switch on the unit itself; use the power outlet or a timer for control.
2. **Adjust Dimmer:** Use the dimmer knob located on the side of the fixture to adjust the light intensity from 0% to 100%. Turn clockwise to increase brightness and counter-clockwise to decrease.
3. **Daisy Chain Function (if applicable):** The PL1000 model supports daisy-chaining. If connecting multiple units, ensure the total wattage does not exceed the circuit's capacity. Connect the output of one light to the input of the next.



Figure 4: Rear view of the Phlizon PL1000 LED Grow Light, highlighting the integrated LED driver and the dimmer control knob for adjusting light intensity.

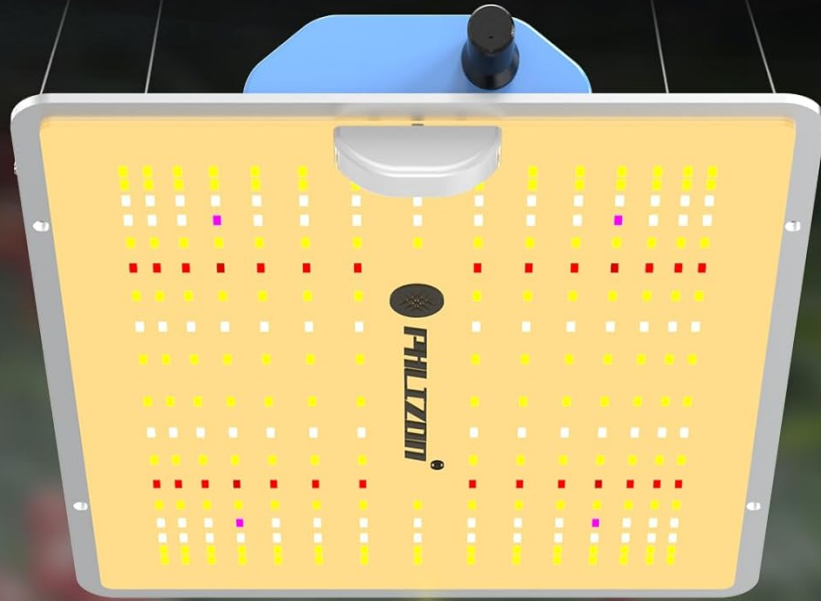
7. USAGE GUIDELINES

Optimal hanging height and dimming levels vary based on the plant's growth stage:

Growth Stage	Recommended Dimming	Recommended Hanging Height	Light Cycle (Hours/Day)
Germination	25%	12 inches (30cm)	10-12
Seeding	25%	12 inches (30cm)	12-14
Vegetative	75%	12 inches (30cm)	16-18
Bloom	100%	12 inches (30cm)	10-12

The recommended coverage area for the PL1000 is 2x2ft to 2x4ft, depending on the growth stage and intensity requirements.

DIMMABLE FOR DIFFERENT GROWTH STAGE



Germination

12 inch
10h-12/per day

25%

Seeding

12 inch
12h-14/per day

25%



Vegetable

12 inch
16h-18/per day

75%



Bloom

12 inch
10h-12/per day

100%



Figure 5: Recommended dimming percentages and daily light cycles for the Phlizon PL1000 across different plant growth phases: Germination (25%), Seeding (25%), Vegetative (75%), and Bloom (100%).

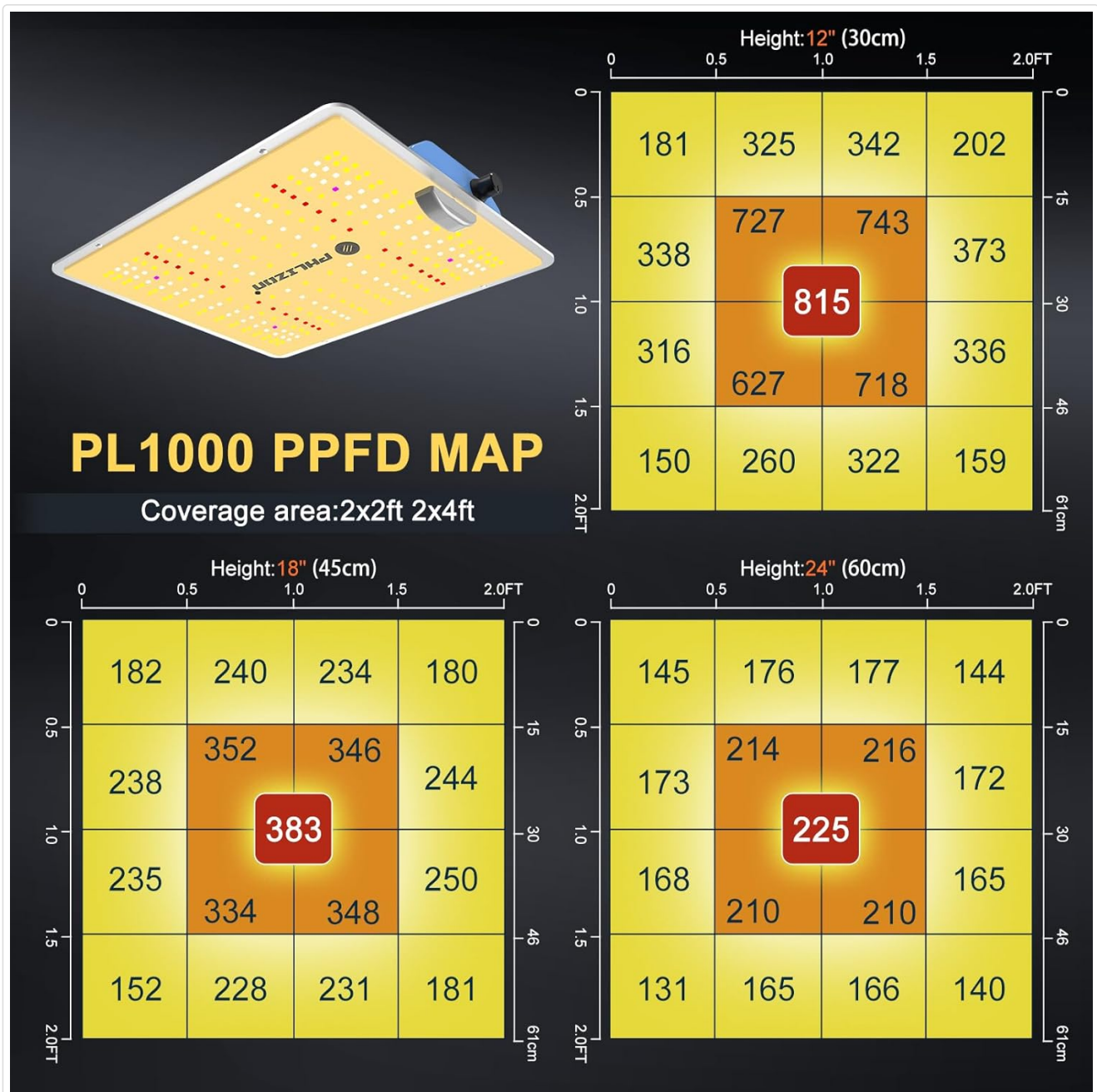


Figure 6: PPFd (Photosynthetic Photon Flux Density) maps for the PL1000 at 12-inch, 18-inch, and 24-inch hanging heights, indicating light intensity distribution over 2x2ft and 2x4ft coverage areas.

8. MAINTENANCE

- **Cleaning:** Periodically clean the light fixture with a soft, dry cloth to remove dust and debris. Ensure the light is off and cool before cleaning. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Regularly check the power cord and hanging components for any signs of wear or damage. Replace any damaged parts immediately.
- **Storage:** If storing the light for an extended period, ensure it is clean, dry, and stored in a cool, dark place.

9. TROUBLESHOOTING

- **Light Not Turning On:**
 - Check if the power cord is securely connected to both the fixture and the electrical outlet.
 - Verify that the electrical outlet is functioning correctly.

- Ensure the dimmer knob is not set to 0%.

- **Light Appears Dim:**

- Adjust the dimmer knob to increase brightness.
- Note that UV and IR LEDs may appear dim to the naked eye but are functioning normally.

- **Overheating:**

- Ensure adequate airflow around the fixture.
- Verify that the ambient temperature in the growing area is within acceptable limits.

10. SPECIFICATIONS

Specification	Detail
Model Number	PH-S10
Brand	Phlizon
Wattage (Actual Power Draw)	100 Watts
Light Source Type	LED (Samsung LM281B)
Number of Light Sources	268 LEDs
Spectrum	Full Spectrum (3000K, 6500K, 660nm Red, UV, IR)
Dimmable	Yes
Waterproof	Yes
Noise Level	Zero Noise (Fanless Design)
Material	Aluminum
Product Dimensions	13"L x 11"W x 2.4"H (33cm x 28cm x 6.1cm)
Item Weight	2.7 Pounds (1.22 kg)
Voltage	85-265 Volts
Beam Angle	120 Degrees
Color Rendering Index (CRI)	80
Special Features	Dimmable, Daisy Chain Capable, Samsung 281B LEDs

Produktdatenblatt			
DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen			
Name oder Handelsmarke des Lieferanten: Phlizon			
Anschrift des Lieferanten: CET PRODUCT SERVICE SP. Z O.O., Ul. Długa 33 102, 95-100 Zgierz polen, PL			
Modellkennung: PH-S10			
Art der Lichtquelle:			
Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	DLS
Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle)	/		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	MLS	Vernetzte Lichtquelle (CLS):	Ja
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-

Lichtquelle mit hoher Leuchtdichte:		Nein		
Blendschutzschild:		Nein		Dimmbar: Nein
Produktparameter				
Parameter	Wert	Parameter	Wert	
Allgemeine Produktparameter:				
Energieverbrauch im Ein-Zustand (kWh/1000 h), auf die nächstliegende ganze Zahl gerundet	100	Energieeffizienzklasse	E	
Nutzlichtstrom (luse) mit Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel (360°), in einem breiten Kegel (120°) oder in einem schmalen Kegel (90°) bezieht	11 000 in breiter Kegel (120°)	Ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren ähnlichen Farbtemperaturen, gerundet auf die nächstliegenden 100 K	4 100	
Leistungsaufnahme im Ein-Zustand (P _{in}) in W	100,0	Leistungsaufnahme im Bereitschaftszustand (P _{by}) in W, auf die zweite Dezimalstelle gerundet	-	
Leistungsaufnahme im vernetzten Bereitschaftsbetrieb (P _{net}) für CLS in W, auf die zweite Dezimalstelle gerundet	-	Farbwiedergabeindex, auf die nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	80	
Äußere Abmessungen, ggf. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Beleuchtungsteile (Millimeter)	Höhe	330	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Vollast	Siehe Bild auf letzter Seite
	Breite	280		
	Tiefe	45		
Angabe zu einer gleichwertigen Leistungsaufnahme ^(a)	-	Falls ja, gleichwertige Leistungsaufnahme (W)	-	
		Farbwertanteile (x und y)	0,367 0,360	
Parameter für Lichtquellen mit gebündeltem Licht:				
Spitzenlichtstärke (cd)	2 124	Halbwertswinkel in Grad oder Spanne der einstellbaren Halbwertswinkel	120	
Parameter für LED- und OLED-Lichtquellen:				
Wert des R9-Farbwiedergabeindex	10	Lebensdauerfaktor	1,00	
Lichtstromerhalt	0,96			
Parameter für LED- und OLED-Netzspannungslichtquellen:				
Verschiebungsfaktor (cos φ1)	0,90	Farbkonsistenz in MacAdam-Ellipsen	6	
Angabe, dass eine LED-Lichtquelle eine Leuchtstofflichtquelle ohne eingebautes Vorschaltgerät mit einer bestimmten Leistungsaufnahme ersetzt.	„nein“	Falls ja, Angabe zur ersetzten Leistungsaufnahme (W)	-	
Flimmer-Messgröße (Pst LM)	0,1	Messgröße für Stroboskop-Effekte (SVM)	0,0	

(a)_{„-“}: nicht zutreffend;
(b)_{„-“}: nicht zutreffend;

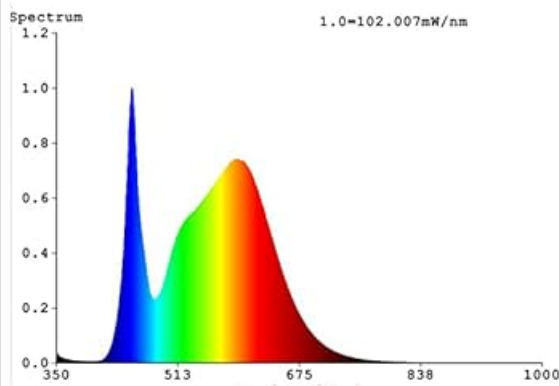


Figure 7: The EU energy label for the Phlizon PH-S10, indicating an energy efficiency class E and 100 kWh/1000h consumption. More details can be found at <https://eprel.ec.europa.eu/qr/1537959>.

11. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 1: Official product video demonstrating the Phlizon 2022 Advanced Panel Series LED Grow Light, highlighting its features and application for plant growth.

12. WARRANTY AND SUPPORT

Phlizon is committed to providing quality products and customer satisfaction. If you encounter any issues or have questions regarding your PL1000 LED Grow Light, please contact Phlizon customer service for assistance. We have a strong R&D team and dedicated support to provide a satisfying reply.