

USER MANUAL



# **PHANTOM<sup>™</sup>** *Cultivar* **GL250**

PHANTOM CULTIVAR GL250 GROW LIGHT

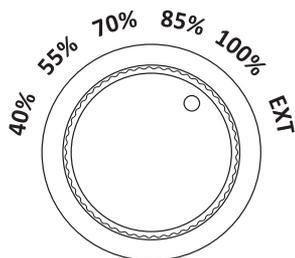


PTBZ1000125S41

# USER MANUAL

## FEATURES

### INTEGRATED LIGHT OUTPUT CONTROL

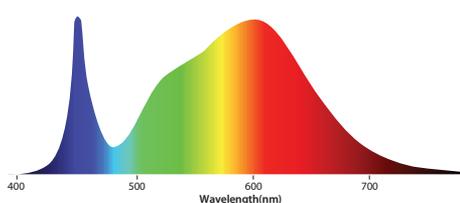
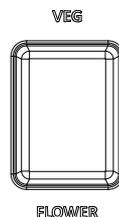


AMPERAGE REFERENCE IN 120V INPUT VOLTAGE				
Mode	FLOWER		VEG	
	Amperage (A)	Power (W)	Amperage (A)	Power (W)
40%	0.85	100.7	0.80	93.5
55%	1.16	138	1.08	128
70%	1.48	176	1.37	163
85%	1.80	215.4	1.67	199
100%	2.06	246.5	1.90	227

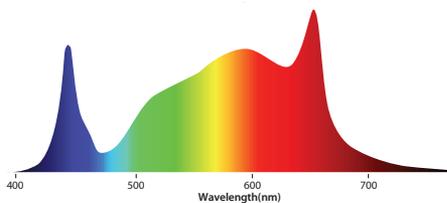
## SPECTRA

### S4 Spectrum with Two-Step Spectrum Switch (TSS)

- Use the IP65-rated TSS to switch between VEG/FLOWER mode.
- FLOWER mode offers the classic S4 spectrum, providing a full spectrum with supplemented red LEDs at 660nm.
- VEG mode will reduce the red spectral output for early-stage plant development needs.



VEG MODE



FLOWER MODE

## ELECTRICAL SPECIFICATIONS

Item Code	PTBZ1000125S41
Model	PHANTOM GL 250
Spectrum	S4
Application	Vegetative & Flowering
Photon Flux ( $\mu\text{mol/s}$ )	624
Fixture Power (W)	250

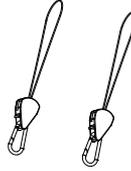
Efficacy ( $\mu\text{mol/J}$ )	2.5
Dimming	0-10V
IP	IP65
Weight	10.8 lbs/4.9 kg
Voltage	120V
Lifetime to Q90	50,000 hr

## PARTS LIST

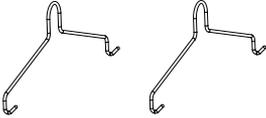
- A: PHANTOM GL250 fixture x1
- B: Rope Ratchet x2
- C: Fixture Hanger x2
- D: RJ Signal Cable x1



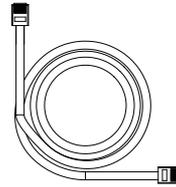
A



B

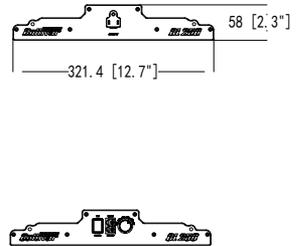
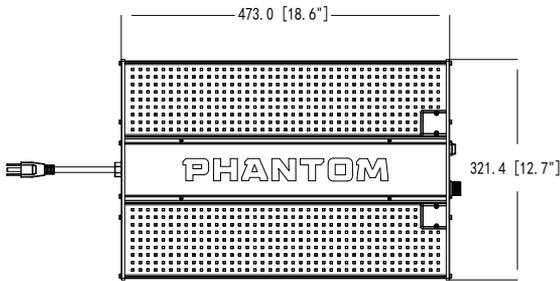


C



D

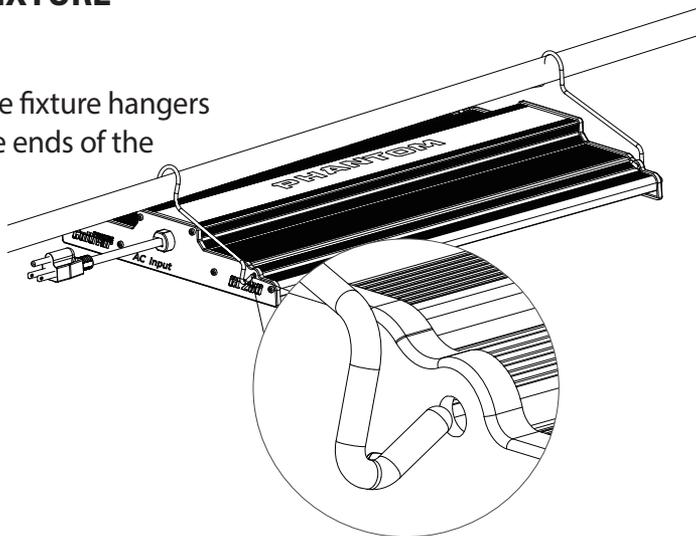
## PRODUCT DIMENSIONS



## HANGING THE FIXTURE

### STEP 1

Insert the ends of the fixture hangers into the holes on the ends of the fixture housing.



### STEP 2

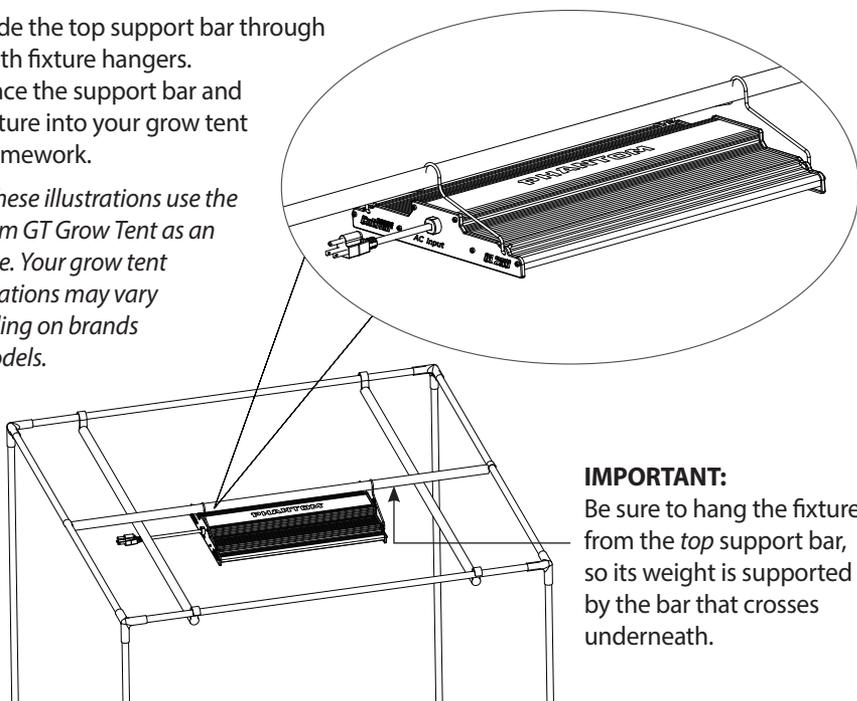
Hang the fixture securely from your grow tent or ceiling joist.

#### MOUNTING OPTION 1:

Using fixture hangers with a grow tent

1. Slide the top support bar through both fixture hangers.
2. Place the support bar and fixture into your grow tent framework.

*Note: These illustrations use the Phantom GT Grow Tent as an example. Your grow tent specifications may vary depending on brands and models.*



#### IMPORTANT:

Be sure to hang the fixture from the *top* support bar, so its weight is supported by the bar that crosses underneath.

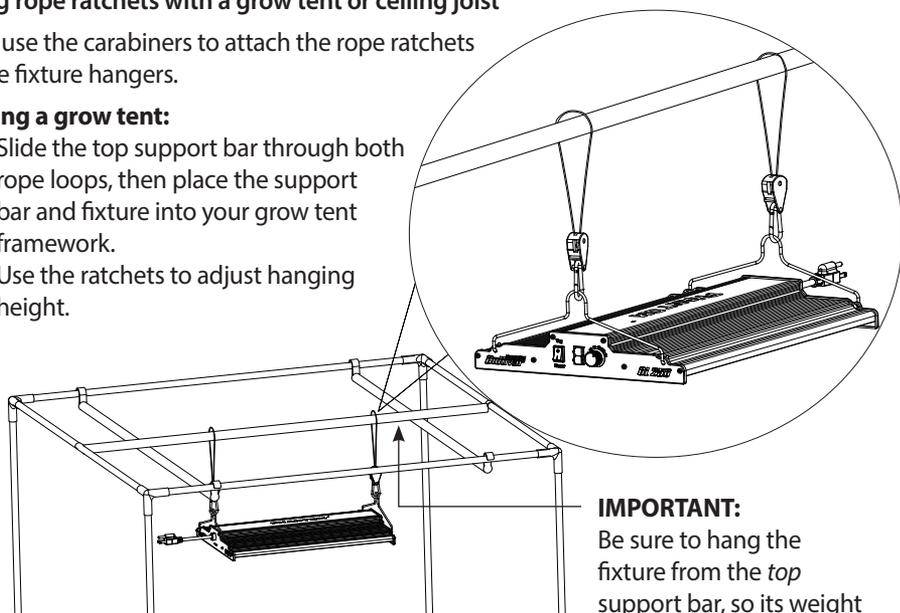
## MOUNTING OPTION 2:

### Using rope ratchets with a grow tent or ceiling joist

First, use the carabiners to attach the rope ratchets to the fixture hangers.

#### If using a grow tent:

1. Slide the top support bar through both rope loops, then place the support bar and fixture into your grow tent framework.
2. Use the ratchets to adjust hanging height.



#### IMPORTANT:

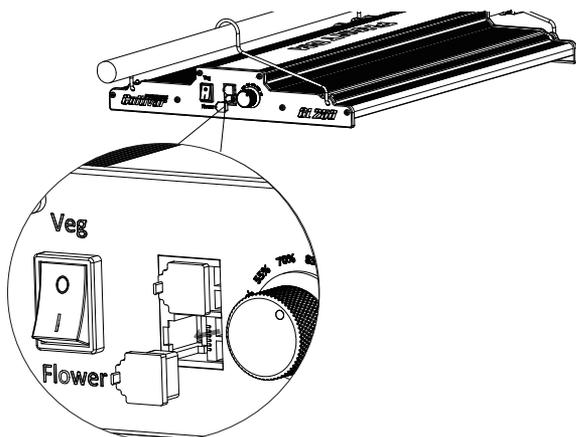
Be sure to hang the fixture from the *top* support bar, so its weight is supported by the bar that crosses underneath.

#### If using a ceiling joist:

1. Locate the joist with a stud finder.
2. Screw an eyehook (or some other means of hanging the fixture securely from the ceiling) into the joist. *Make sure the eyehooks are rated to hold at least 15 lbs.*
3. Screw a second eyehook further down the joist to balance hanging the reflector.
4. Hang the ratchet ropes from the eyehooks.
5. Use the ratchets to adjust hanging height.

## STEP 3 (optional)

Remove the dust cover from the dimming port before connecting with an external controller or another GL250 fixture. Keep the cover for use when the dimming port is not used.

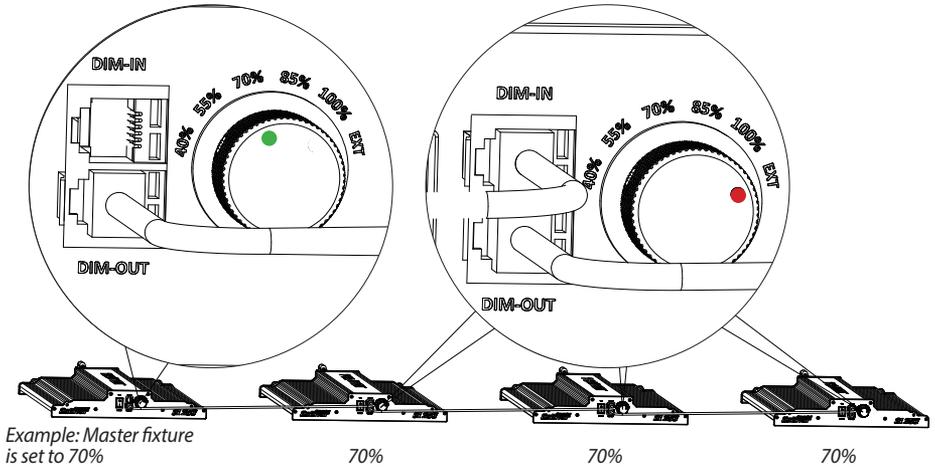


## DIMMING CONNECTION

### OPTION 1:

#### MAD (Master-Apprentice Dimming) Function

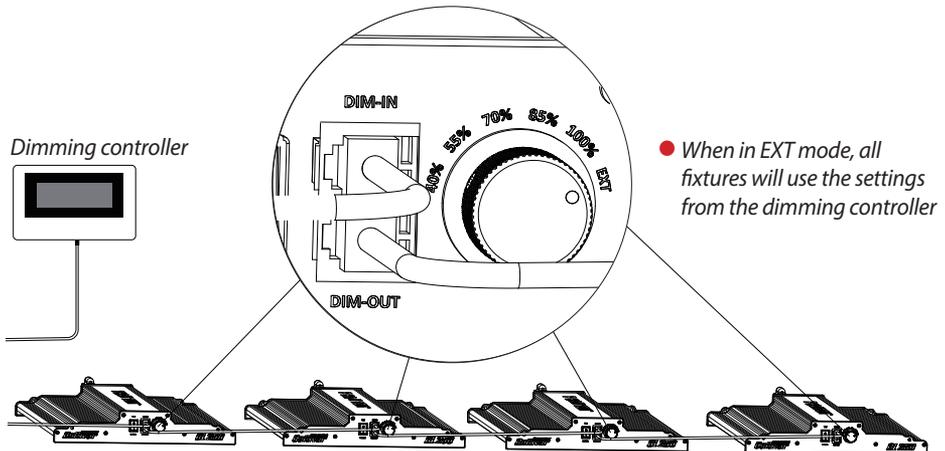
- Connect a maximum of 4 PHANTOM GL250 lights with RJ Signal Cable.
  - Switch all Apprentice lights to EXT mode.
- Master light setting controls all fixtures
- When in EXT mode, the apprentice lights will use the same settings as the master fixture



### OPTION 2:

#### 0–10V Dimming Centralize Control Function

- Connect multiple PHANTOM GL250 lights with RJ Signal Cable.
- Switch ALL lights to EXT mode.
- Use 0–10V dimming controller to control the lights.



# USER MANUAL



## **WARNING – POSSIBLE RISK OF INJURY TO EYES AND SKIN**

Hazardous optical UV, HEV, and IR radiation may be emitted from the light source. Always wear personal protective equipment ensuring complete shielding of skin and eyes. Avoid prolonged exposure and looking directly at light source.

## **WARNINGS**

**Please read these installation instruction carefully and keep it on hand. Before installing, servicing, or performing routine maintenance, follow these general precautions:**

- For the installation: if you are unsure about the installation or maintenance of this fixture, consult a qualified licensed electrician and check your local electrical code.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- Turn off the power and unplug fixture when you perform any maintenance or cleaning activity.
- Verify that supply voltage is correct by comparing it with the information on spec label.
- Avoid hitting, bending or causing mechanical stress to the fixture.
- DO NOT cover or block any part of the fixture during operation.
- To ensure optimal performance, the back of the lighting panels may require periodic cleaning. Clean with compressed air or damp lint free cloth.
- 12" Clearance must be maintained from any combustible surface.
- Always provide a well-ventilated environment where ambient temperatures do not exceed 40°C (104°F) regardless of whether the fixtures are in operation or off. Excessive temperatures can inhibit performance and may cause damage or shorten the life of the fixtures and void the warranty.
- Do not run or store fixtures in the facility unless proper environmental cooling systems are in operation. Facilities that are "shut down" can record excessively high temperatures resulting in premature equipment failure.
- When calculating cooling needs for your facility, take into consideration BTU load generated by LED fixtures.
- This IP 65 LED fixture is intended for indoor use only. Avoid high pressure jets of water.
- Do not expose the fixture to the sulfur dioxide compound. If sulfur application is part of your practice, please make sure to remove the fixtures prior to this process.

### **Additional safety warnings:**

- Cables shall not be concealed or extended through a wall, floor, ceiling, or other parts of the building structure.
- Cables shall not be located above a suspended ceiling or dropped ceiling; permanently affixed to the building structure.
- Cables shall be routed so that they are not subject to strain and are protected from physical damage; and visible over their entire length.
- Cables shall be used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- CAN ICES-3(B)/NMB-3(B)

## WARRANTY



### LIMITED WARRANTY

Hydrofarm warrants the **PHANTOM CULTIVAR GL250 GROW LIGHT** to be free from defects in materials and workmanship. The warranty term is for 5 years beginning on the date of purchase. Misuse, abuse, or failure to follow instructions is not covered under this warranty. Hydrofarm's warranty liability extends only to the replacement cost of the product. Hydrofarm will not be liable for any consequential, indirect, or incidental damages of any kind, including lost revenues, lost profits, or other losses in connection with the product. Some states do not allow limitation on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Hydrofarm will, at our discretion, repair or replace the **PHANTOM CULTIVAR GL250 GROW LIGHT** covered under this warranty if it is returned to the original place of purchase. To request warranty service, please return the **PHANTOM CULTIVAR GL250 GROW LIGHT**, with original sales receipt and original packaging, to your place of purchase. The purchase date is based on your original sales receipt.



Thank you for choosing the **PHANTOM CULTIVAR GL250 GROW LIGHT** by Hydrofarm. For further information about products, videos and technical information, please visit [Hydrofarm.com](https://www.hydrofarm.com).

Get Connected with the Hydrofarm Community:



Check out [Hydrofarmtv](https://www.hydrofarm.com) on Instagram and YouTube!

Phantom Cultivar Grow Tent Instructions | Revised January 8, 2024 6:08 pm



[Hydrofarm.com](https://www.hydrofarm.com)