### PTBZ1000125S41

#### PHANTOM CULTIVAR GL250 LED, 250W, 120V

#### **S4 SPECTRUM WITH TWO-STEP SPECTRUM SWITCH (TSS)**

PHANTOM Cultivar GL 250 is designed for those who take their cultivation seriously, regardless of where they grow. The small footprint of the fixture and the true IP65 rating offer nimbleness and flexibility growers need to push the definition of a "grow room." The 2.5  $\mu$ Mol/J efficacy and the unibody heatsink empower growers to challenge the performance of the next batch. The state-of-the-art Master-Apprentice Dimmer (MAD) function and Two-Step Spectrum Switch (TSS) put the grower in control. The mission has always been the same since 1977: Cultivate Higher.



#### **System Overview**

Model PTBZ1000125S41 Fixture Type Horticultural LED Spectrum Veg / Flower (S4) Photon Flux (PAR 400-700 nm) 625 µmol/s Photon Flux (PBAR 280-800 nm) 641 µmol/s Input Power (W) 250 Efficacy (280-800 nm) 2.56 µmol/J 120 VAC Input Voltage Range Lifetime L90: > 50,000hr **Optics Conformal Coating** Dimmable 0-10 VDC / On-board Knob

Driver IP67 Driver
Operating Environment Wet Location

Ingress Protection Rating IP65

Warranty Period 5 Year Limited

#### **Electrical Specifications**

Model PTBZ1000125S41

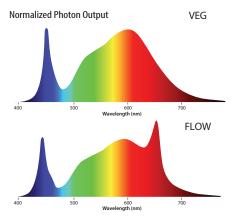
Fixture Power (W) 250
Input Voltage Range 120 VAC
Max Voltage Range 108-132 VAC
Max Input Power 262.5

Power Factor 0.9
Frequency 50/60Hz
Daisy-chain No

#### Input Amperage Reference

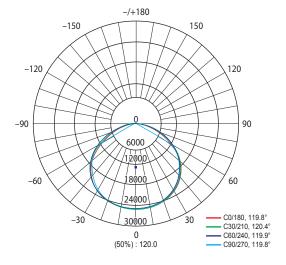
Voltage Input
Typical Amerage 2.08
Max Amperage 2.19

# **S4 Spectrum with TSS**



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

# **Photosynthetic Photon Intensity Distribution**









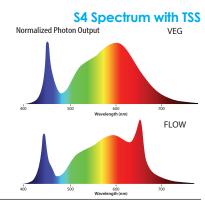


# PTBZ1000125S41

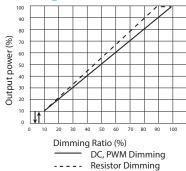
PHANTOM CULTIVAR GL250 LED 250W, 120V

**S4 SPECTRUM WITH TWO-STEP SPECTRUM SWITCH (TSS)** 





#### **Dimming Ratio**



#### **Operating Conditions**

Rated Operating Temprature

Minimum Operating Temprature

Maximum Operating Temprature

Maximum Operating Temprature

Operating Environment

Ingress Protection Rating

77°F/25°C

-4°F/-20°C

104°F/40°C

Wet Location

IP65

# **Optical Specifications**

 Optics
 120 degrees

 Total Diode Quantity
 1284

 Spectrum
 Veg / Flower (S4)

 Lifetime
 > 50,000hr

#### **Driver Specifications**

Open Circuit Protection Yes
Short Circuit Protection Yes
Overtemperature Protection Yes
Over/Undervoltage Protection Yes
IP Rated Daisy Chain Connector
Internal EMI Suppression Yes
Mini 2P Male IP AC Input Yes

#### **Safety Certifications**

Certification Mark ETL
Certified to UL 1598 Yes
Certified to CSA C22.2 # 250.0 Yes
Certified to UL 8800 Yes
IEC 62471 Photobiobilogy

Safety Rating Risk Group 2

FCC Commercial Yes FCC Residential No

#### **Mechanical Specification**

Dimensions (L x W x H)
Net Weight

Thermal Management

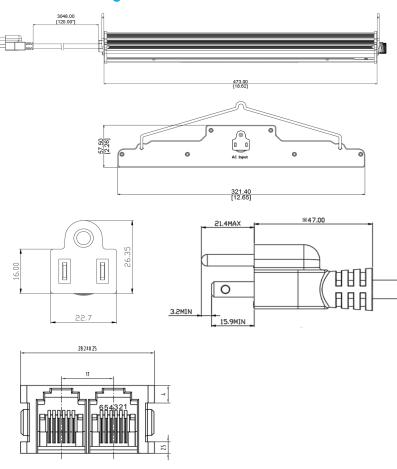
Material

473 x 321.4 x 57.5 mm / 18.62 x 12.65 x 2.26 in 5 kg / 11 Lb

Passive

Aluminum, PC, Anodized

#### **Dimensional Drawing**



#### **Operation Notes**

For use with a generator, line conditioning equipment to control input voltage must be used in order to avoid damage to fixture. Failure to observe this warning will result in void of warranty. Contact us for more information. Clean overspray from lens with a damp microfiber cloth. Product is not designed to use with residential power strip.









# 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.

