# PTB3330LS4X

#### PHOTOBIO•T LED, 330W, 100-277V

#### **S4 SPECTRUM**

PHOTOBIO•T high efficiency LED top light is designed for greenhouse and indoor applications. The slim design minimizes sun interference while providing greater access to the plant canopy. The ultra-effective commercial design utilizes a closed loop heat pipe cooling system to rapidly wick heat from diodes, providing superior heat dissipation and longevity. The high efficiency S4 spectrum provides ideal conditions for both human and plant health to deliver better working conditions and consistent crop quality. This fixture allows horticulture professionals increased performance and yields while maximizing ROI.

#### **System Overview**

Model	PTB3330LS4X
Fixture Type	Horticultural LED
Spectrum	S4 Spectrum
PPF Output (400-700nm)	830 µmol/s
PBAR Output (280-800nm)	846 µmol/s
Input Power	330W
Efficacy	2.55 µmol/joule
Input Voltage Range	100-277V
Lifetime	Q90: > 50,000hr
Optics	120° Primary Optics
Dimmable	0-10V
Driver	IP67 Driver
Operating Environment	Wet Location
Ingress Protection Rating	IP65
Warranty Period	5 Years

#### **Ballast Electrical Specifications**

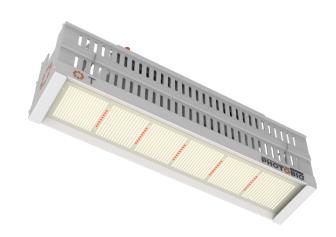
Model	Phantom 330 PSU
Fixture Power	330W
Input Voltage Range	100-277V
Max Voltage Range	90–305V
Max Input Power	345W
Power Factor	0.95
Frequency	50/60Hz
THD	<20%
ta	-40
tc	90

#### **Ballast Input Amperage Reference**

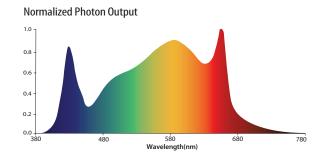
Voltage Input	120V	208V	240V	277V
Typical Amperage	2.75	1.59	1.38	1.2
Max Amperage	2.9	1.7	1.45	1.25

### **Operating Conditions**

Rated Operating Temperature	77°F/25°C
Minimum Operating Temperature	4°F/-20°C
Maximum Operating Temperature	104°F/40°C
Operating Environment	Wet Location
Ingress Protection Rating	IP65
Material	N/A

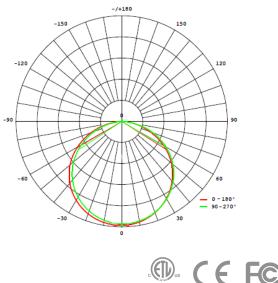


#### S4 Spectrum



**S4 Spectrum:** Provides highly efficient full spectrum with a healthy red-to-blue ratio to drive photosynthesis. Light energy between 500–599nm, previously thought wasted, penetrates deeper into the plant canopy promoting photomorphogenic responses. High color rendering "white" light aids to rapidly identify potential threats to your crop and provides superior working conditions and safety for personnel. Ideal for both flowering and vegetative production.

#### Photosynthetic Photon Intensity Distribution



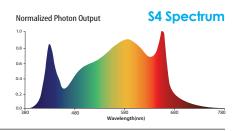


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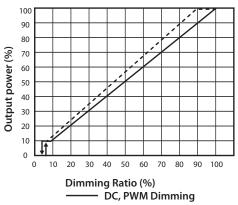
PHOTOBIO•T LED, 330W, 100-277V

**S4 SPECTRUM** 





#### **Dimming Ratio**



---- Resistor Dimming

#### **Optical Specifications**

Optics	120 degrees
Total Diode Quantity	1655
Diode Brand	Lumiled
Spectrum	S4
Lifetime	> 50,000hr

#### **Driver Specifications**

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Microprocessor Control	Yes
Open Circuit Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Over/Undervoltage Protection	Yes
Over/Undervoltage Indicator	Yes
Output Compensation	Yes
IP Rated 0–10V	Yes
Internal EMI Suppression	Yes
AC Input	Yes
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#### **Safety Certifications**

UL	N/A
ETL	Yes
CE	Yes
FCC Commercial	Yes
FCC Residential	Yes



# Power Harnesses Options

Specific cable harness sold separately based on facility requirements.



#### **PHOTOBIO** • T Optional Accessories

PTBCC8850WPHOTO LOC 0–10V Control Cable 8' Trunk + 5' BranchPTBCCJ16WPHOTO LOC 0–10V Control Cable 16' Jumper

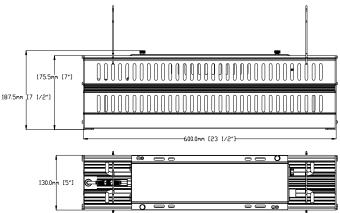
#### **Mechanical Specification**

Dimensions (L x W x H)

Net Weight Thermal Management Material

#### 600 x 130 x 187.5 mm / 23.5" x 5.0" x 7.5" 8.25 kg / 18.18 Lb Passive + Heat pipe Aluminum, Copper

#### **Dimensional Drawing**



### 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.

