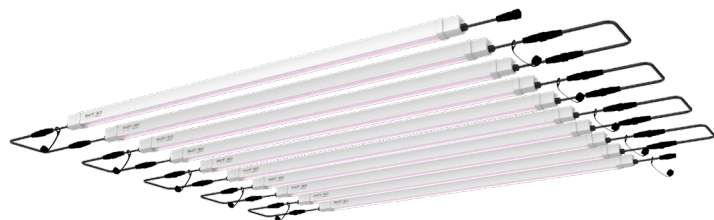


**PHOTOBIO•V LED, 10W, 100–277V
TC SPECTRUM**

PHOTOBIO•V is a modular, highly efficient LED designed for vertical farming. High efficiency, long lifetime, maintenance free, together means lower cost of ownership.

**System Overview**

Model	PTB1010TC
Fixture Type	High Efficiency Horticultural LED
Spectrum	TC
Photon Flux (PAR 400–700 nm)	17 $\mu\text{mol/s}$
Photon Flux (PBAR 280–800 nm)	21 $\mu\text{mol/s}$
Input Power (W)	10
Efficacy (280–800 nm)	2.1 $\mu\text{mol/J}$
Input Voltage Range	100–277V Auto Recognition
Lifetime	L90: > 50,000hr
Optics	Prismatic PC Lens
Dimmable	None
Driver	Internal Driver
Operating Environment	Wet Location
Ingress Protection Rating	IP65
Warranty Period	3 Year

Electrical Specifications

Model	PTB1010TC
Fixture Power (W)	10
Input Voltage Range	100–277V
Max Voltage Range	90–305V
Max Input Power	355
Power Factor	0.95
Frequency	50/60Hz
Daisy-Chain	Yes

Input Amperage Reference

Voltage Input	120V	208V	277V
Typical Amperage	0.08	0.05	0.04
Max Amperage	0.09	0.05	0.05
Maximum of Fixtures Daisy-chained (pcs)	45	80	100

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

Safety Certifications

Certification Mark	ETL & CE
Conforms to UL 1598	Yes
Conforms to CSA C22.2 # 250.0	Yes
Compliant to OOI UL 8800	Yes
FCC Commercial	Yes
FCC Residential	Yes

Driver Specifications

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

Operation Notes

For use with a generator, line conditioning equipment to control input voltage must be used in order to avoid damage to fixture. Product is not designed to use with residential power strip. Failure to observe these warnings will result in void of warranty. Contact us for more information.

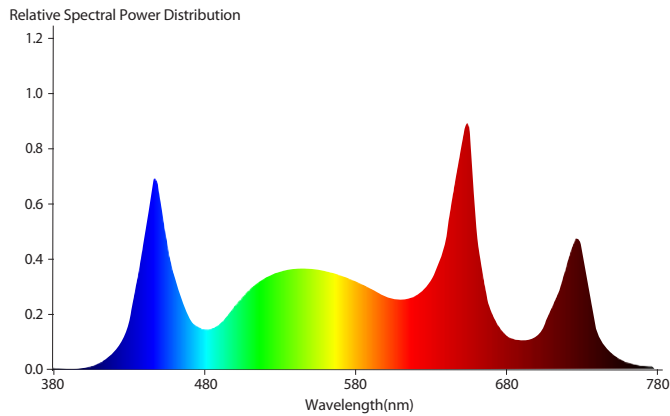
Clean lens with a damp microfiber cloth.

PTB1010TC

PHOTOBIO•V LED, 10W, 100-277V

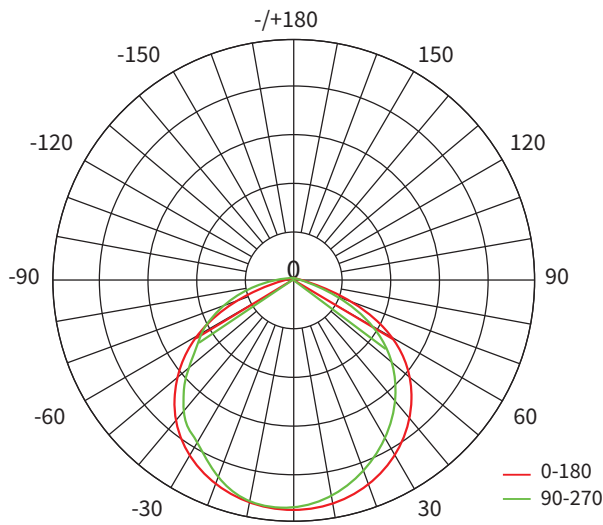
TC SPECTRUM

TC Spectrum

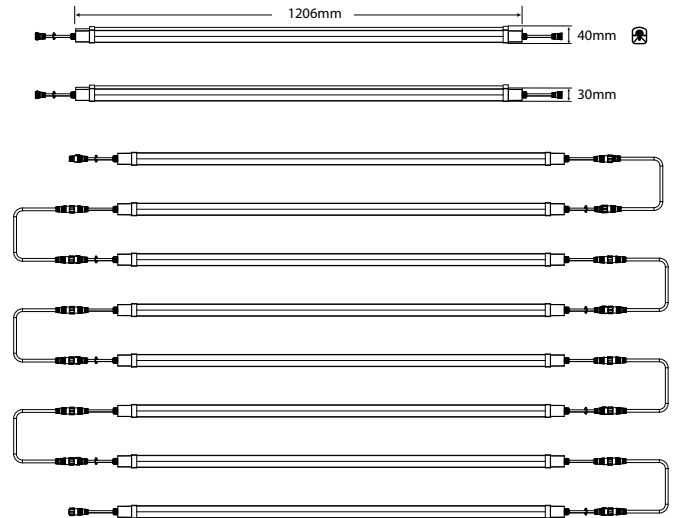


TC Spectrum: This tissue culture spectrum is fine-tuned for rapid cell division. Typically employed in low wattage fixtures, the TC spectrum provides ideal proportions of red, far-red, and blue light while maintaining high CRI.

Polar Diagram



Dimensional Drawing



Mechanical Specifications

Dimensions (L x W x H)	1235 x 35.4 x 41.3 mm / 48.62" x 1.39" x 1.63"
Net Weight	0.9 kg / 2 Lb
Thermal Management	Passive
Material	Aluminum, PC

