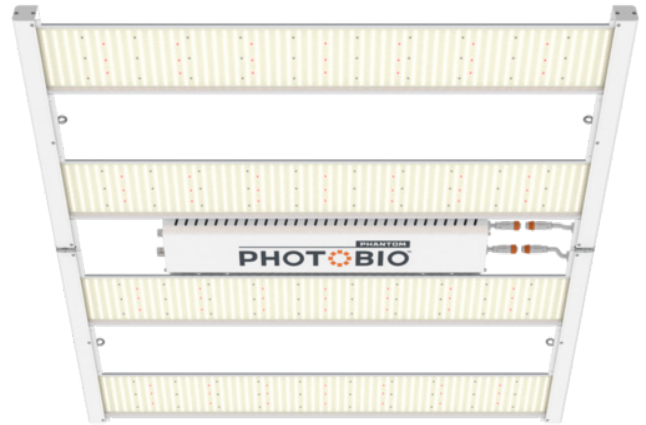


PTB7680LS4

PHOTOBIO•MX LED, 680W, 100–277V

S4 SPECTRUM

PHOTOBIO•MX high efficiency LED is designed for horticultural professionals looking to increase performance and yields while maximizing ROI. Robust commercial design utilizes ultra-wide bars to deliver high light levels while allowing air circulation. The high efficiency S4 spectrum provides more red, far-red, and blue wavelengths to deliver vigorous growth and optimize flower development. Multilayer usage can be utilized to maximize canopy square footage within existing structure footprint.



System Overview

Model	PTB7680LS4
Fixture Type	High Efficiency Horticultural LED
Spectrum	S4
Photon Flux (PAR 400–700 nm)	1700 $\mu\text{mol/s}$
Photon Flux (PBAR 280–800 nm)	1734 $\mu\text{mol/s}$
Input Power (W)	680
Efficacy (400–700 nm)	2.55 $\mu\text{mol/J}$
Input Voltage Range	100–277V Auto Recognition
Lifetime	Q90: > 50,000hr
Optics	120° Primary Optics
Dimmable	PHOTO•LOC Light Output Control (0–10V)
Driver	IP67 Driver
Operating Environment	Wet Location
Ingress Protection Rating	IP65
Warranty Period	5 Year

Electrical Specifications

Fixture Power (W)	680
Input Voltage Range	100–277V
Max Voltage Range	90–305V
Power Factor	0.95
Frequency	50/60Hz
THD	<20%

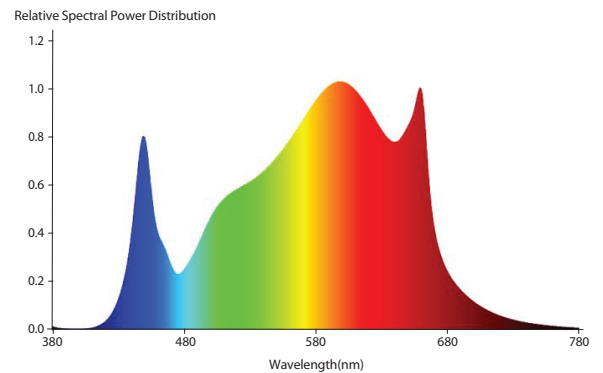
Input Amperage Reference

Voltage Input	120V	208V	240V	277V
Typical Amperage	5.6A	3.3A	2.8A	2.5A
Max Amperage	5.8A	3.4A	2.9A	2.5A

Operating Conditions

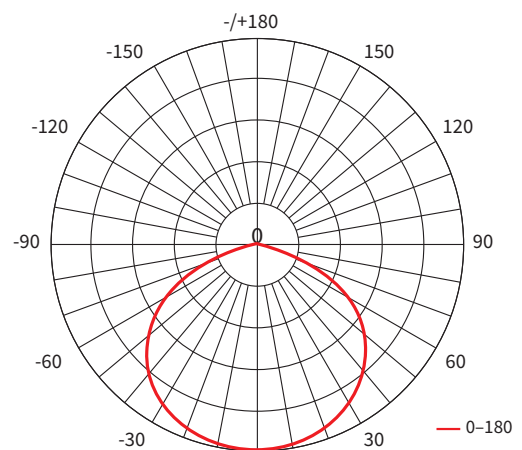
Rated Operating Temperature	77°F/25°C
Minimum Operating Temperature	-4°F/-20°C
Maximum Operating Temperature	104°F/40°C
Operating Environment	Wet Location
Ingress Protection Rating	IP65

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.

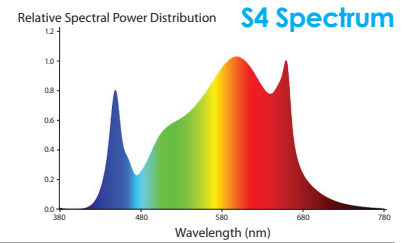
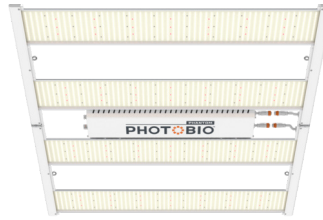
Photosynthetic Photon Intensity Distribution



PTB7680LS4

PHOTOBIO-MX LED, 680W, 100–277V

S4 SPECTRUM



Driver Specifications

Microprocessor Control	Yes
Open Circuit Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Over/Undervoltage Protection	Yes
Over/Undervoltage Indicator	Yes
IP Rated 0–10V	Yes
Internal EMI Suppression	Yes

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



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 with a damp microfiber cloth.

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.

Cable Harnesses

Specific cable harness sold separately based on facility requirements.

Item Code	Image	Type	Description
CHE1063000W		w/leads	10' F 16AWG WT w/leads, Harness
CHE1063010W		110–120V	10' F 16AWG WT 110–120V Plug, 5-15P, Harness
CHE1063015W		208–240V	10' F 16AWG WT 208–240V Plug, 5-15P, Harness
CHE1083020W		277V	10' F 18AWG WT 277V, L7-15P, Harness

Mechanical Specification

Dimensions (L x W x H)	1120 x 1100 x 56 mm / 44.09" x 43.31" x 2.2"
Net Weight	21.54 kg / 47.5 Lb
Thermal Management	Passive
Material	Aluminum, Stainless Steel

Dimensional Drawing

