



BIOS Icarus[®] Ti

Greenhouse and Top Lighting

The BIOS Icarus[®] Ti LED Grow Light is the controlled environment agricultural industry's superior choice for commercial crop production. The thoughtfully inspired Icarus Ti LED Grow Light has superior Photosynthetically Active Radiation (PAR) output and PAR photon efficacy in an LED fixture specifically designed for top lighting applications. The Icarus Ti LED Grow Light has an optimized broad spectrum that maximizes photosynthesis and plant growth while also providing the ideal conditions for a very comfortable visual experience and crop assessment.

Engineered for science, this unique industrial grade fixture fills the need for a small footprint, high output, energy efficient, and cost competitive option for either sole-source lighting for indoor farms or sunlight supplementation for greenhouse production.

FEATURES AND BENEFITS

- Fully assembled, industrial grade construction and durability
- Optimized spectrum for all phases of plant growth and production
- Scientifically engineered spectrum to maximize photosynthesis, growth, yield, and quality
- >40% less energy required and heat generated than 1000W HPS to produce an equivalent amount of delivered PAR
- Superior delivered PAR output and PAR photon efficacy as compared to 1000W HPS
- Superior lighting uniformity across the plant canopy
- Unique heat pipe thermal design allows for passive cooling, which eliminates inferior features such as fans, moving parts, and noise
- Sustainable and environmentally friendly mercury-free lighting source compared to traditional technologies (HID and fluorescent) which require hazardous waste disposal
- Wet-rated with tempered glass optics to protect sensitive electronics from grow environment
- Easily cleaned for optimal (maximum) light output over time
- On-board power supply (LED driver) for ease of installation with optional off-board power configuration

APPLICATIONS

Indoor crop production, greenhouses, growth chambers, retrofit existing HID or new construction controlled environment grow facilities



Wet-Rated

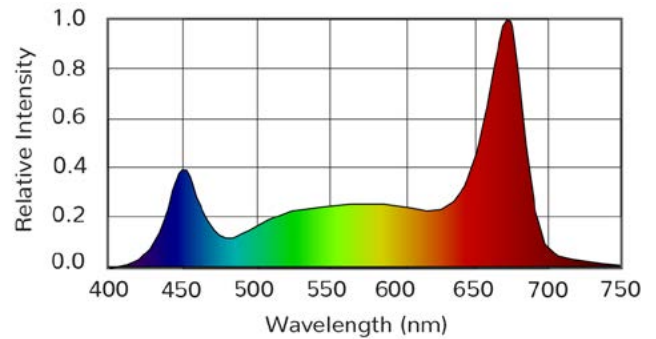


100% Cleanable

FEATURES AND BENEFITS

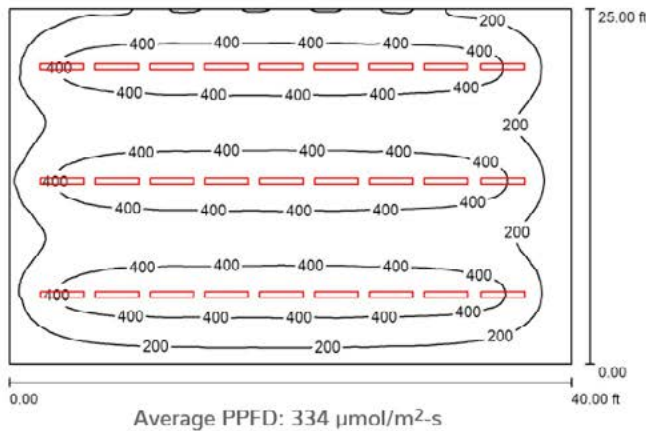
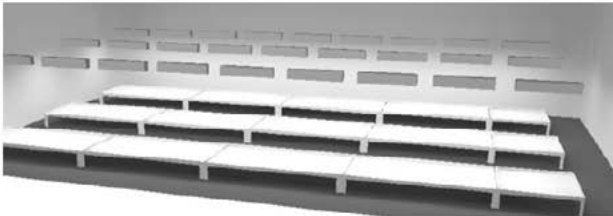
- Fixture Wattage: 555 Watts
- Voltage: 110-277VAC & 277-480VAC
- Photosynthetic Photon Flux ($\mu\text{mol PAR/s}$): 1370 $\mu\text{mol/s}$
- PAR Photon Efficacy ($\mu\text{mol PAR/J}$): 2.5 $\mu\text{mol/J}$
- Optimal Mounting Height: 36"- 96" (91.44 cm – 243.8 cm) above the plant canopy
- Optimal Footprint: 4' x 4' (1.2 m x 1.2 m) to 8' x 8' (2.4 m x 2.4 m)
- Spectrum: Broad horticulturally optimized spectrum
- Fixture Dimensions: 37" long x 4.8" wide (94.2 cm x 12.2 cm)
- Fixture Weight: 32 lbs (14.5 kg) with on-board LED driver
- Housing and Finish: Anodized clear
- Mounting: Y-fit Gripple Hangers
- Dimmability: 0-10 V
- Rated Power Factor: >95%
- Warranty: 5 Year Limited
- Ingress Protection: IP65
- Certifications: UL1598 wet location rated, UL 8750, RoHS, FCC
- Photometrics: Leading Testing Laboratories

SPECTRAL GRAPH



EXAMPLE LIGHTING LAYOUT

Greenhouse Lighting Layout
48" Above Canopy



Indoor Lighting Layout
36" Above Canopy

