

# bios

## Icarus™ LLi

EASY-TO-CLEAN  
INSTALLS IN SECONDS  
OPTIMUM UNIFORMITY



## Vertical Leafy Greens LED Lighting Solution 89W

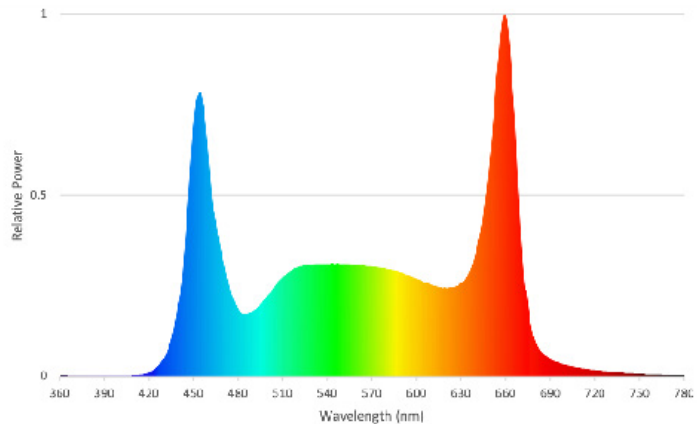
### Exceptional PAR Output and PAR Efficacy

BIOS Icarus LLi LED low profile lighting solution allows you to make the most of your vertical farming square footage. Easy installation, exceptional output performance and unparalleled light uniformity seed the way for higher yields and increased profits.

### Features and Benefits

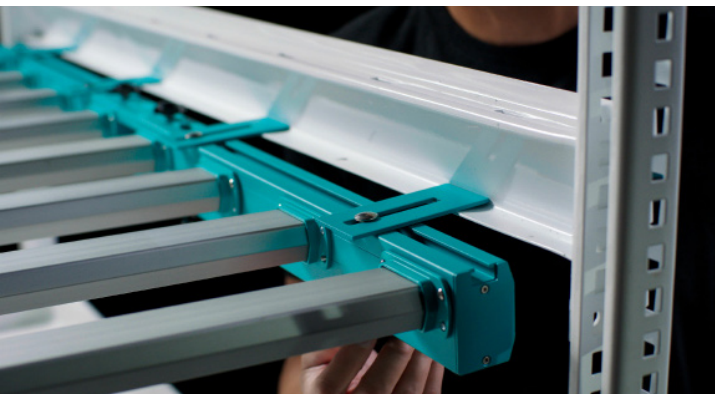
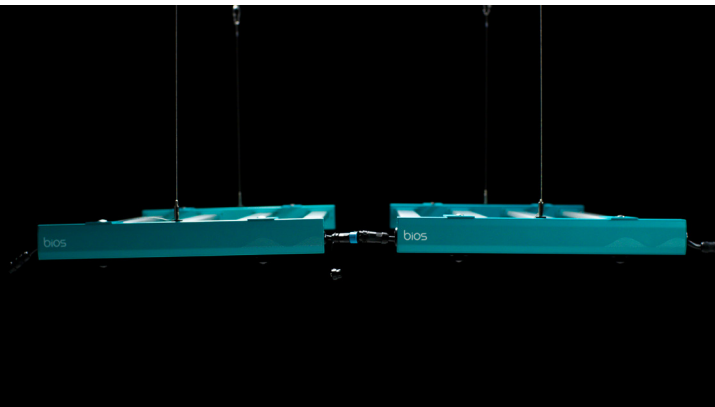
- + Fully assembled, industrial grade construction and durability.
- + Integrated RapidRack™ Mounting tabs for industry's fastest rack mounting.
- + Integrated T-slot mounting provides endless mounting options.
- + Optimized broad spectrum, dimmable light for all phases of plant growth and production.
- + Remote power supply for ease of installation.
- + Streamlined profile for maximum use of space.
- + Daisy chain up to 12 fixtures for efficiency and convenience.
- + Easy to clean glass lens and cleanable heatsink to maintain longevity.
- + Optimal for leafy green applications.

### Scientifically Engineered Spectrum Maximizes Photosynthesis and Growth



### Performance Summary

- + Fixture Wattage: 89 Watts @ 277VAC
- + Voltage: 100-305VAC & 305-580VAC
- + Photosynthetic Photon Flux: 260  $\mu\text{mol/s}$
- + PAR Photon Efficacy ( $\mu\text{mol PAR/J}$ ): 2.9  $\mu\text{mol/J}$  @ 277VAC
- + Ingress Protection: IP66
- + Warranty: 5 Year Limited



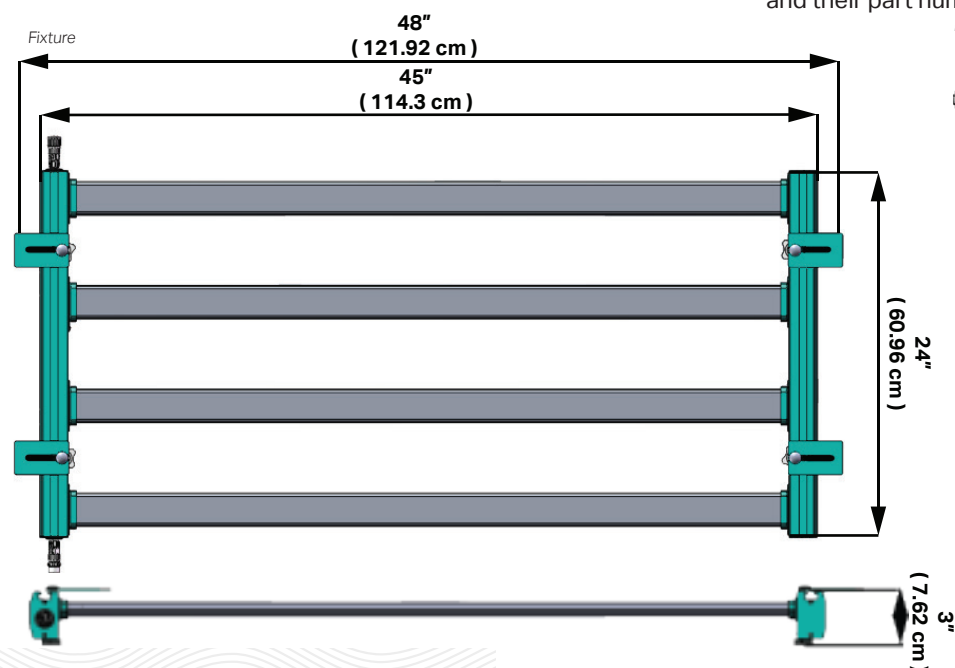
## Fixture Specifications

<b>APPLICATIONS</b>	Indoor Racks, Shelves, Suspension	<b>CERTIFICATIONS</b>	UL8800, RoHS, FCC, DLC
<b>INPUT VOLTAGE</b>	100-305 VAC & 305-580 VAC	<b>FIXTURE WATTAGE</b>	89W @ 277VAC
<b>FIXTURE SIZE / WEIGHT US</b>	45"L x 21.22"W x 3"H   13.8 lbs	<b>POWER FACTOR</b>	≥ 96%
<b>FIXTURE SIZE / WEIGHT M</b>	114.3 cm L x 53.9 cm W x 7.6 cm H   6.3 kg	<b>PPF</b>	260 µmol/s
<b>POWER SUPPLY WEIGHT US</b>	21.3"L x 7.76"W x 2.95"H   11.4 lbs	<b>PAR EFFICACY</b>	2.9 µmol/J @ 89W/277VAC
<b>POWER SUPPLY WEIGHT M</b>	54.1 cm L x 19.7cm W x 7.5 cm H   5.2kg	<b>THERMAL MNGMT</b>	Passive Thermal Management
<b>DIMMING SOURCE</b>	300 uA (typical)	<b>WARRANTY</b>	5 Year Standard Limited
<b>DIMMING PROTOCOL</b>	0-10V I Dims to Off Linearly	<b>LIGHT DISTRIBUTION</b>	120°
<b>HOUSING AND FINISH</b>	Anodized Aluminum & Tempered Glass	<b>AMBIENT TEMP. RANGE</b>	41°F-104°F (5°C-40°C)
<b>MOUNTING TECHNIQUE</b>	RapidRack Mounting, T-Slot Suspension	<b>INGRESS PROTECTION</b>	IP66
<b>MOUNTING HEIGHT</b>	4"-18" Above Plant Canopy - <a href="#">See Application Guide</a>	<b>PROJECTED LIFETIME</b>	Q90: > 56000 hrs
<b>SPECTRUM</b>	Photosynthetically Optimized Broad Spectrum		

## Available Accessories

Accessory	Part Number	Accessory	Part Number
(1) AC Jumper Cable	BP-0ACC-000-120003-1	(1) NEMA 5-15P	BP-0ACC-000-110001-1
(1) DC Jumper Cable	BP-0ACC-000-220001-1	(1) NEMA 6-15P	BP-0ACC-000-110002-1
(1) Dimmer Chain Pigtail	BP-0ACC-000-350001-1	(1) NEMA L6-15P	BP-0ACC-000-110003-1
(1) Dimmer Chain Jumper	BP-0ACC-000-350002-1	(1) NEMA L6-20P	BP-0ACC-000-110004-1
(1) Dimmer Chain T Cable	BP-0ACC-000-350003-1	(1) NEMA L7-15P	BP-0ACC-000-110005-1
(1) AC Power Chain Pigtail	BP-0ACC-000-140001-1	(1) NEMA L7-20P	BP-0ACC-000-110006-1
(1) AC Power Chain Jumper	BP-0ACC-000-140002-1	(2) T-Slot Cable Gripper Suspension Pack	BP-000B-000-TSLT01-1
(1) AC Power Chain T-Cable	BP-0ACC-000-140003-1	(2) T-Slot Unistrut Hanger for PSUs	BP-000B-000-TSLT02-1

## Product Dimensions



\*LLi is typically ordered in kits. Please see application guide for kits and their part numbers.

