



# NEO

NEOCISION  
SPECTRA

by



## Neocision Spectra 320W 3-Bar VEG



UTILITY REBATES  
AVAILABLE



DLC LISTED



ETL CERTIFIED



INDUSTRY LEADING  
7-YEAR WARRANTY



# Full Spectrum Design

## Red Spectrum of Light (600nm - 700nm)

- Most important type of light for plants
- Plants are best able to make energy out of red light

## Blue Spectrum of Light (400nm - 500nm)

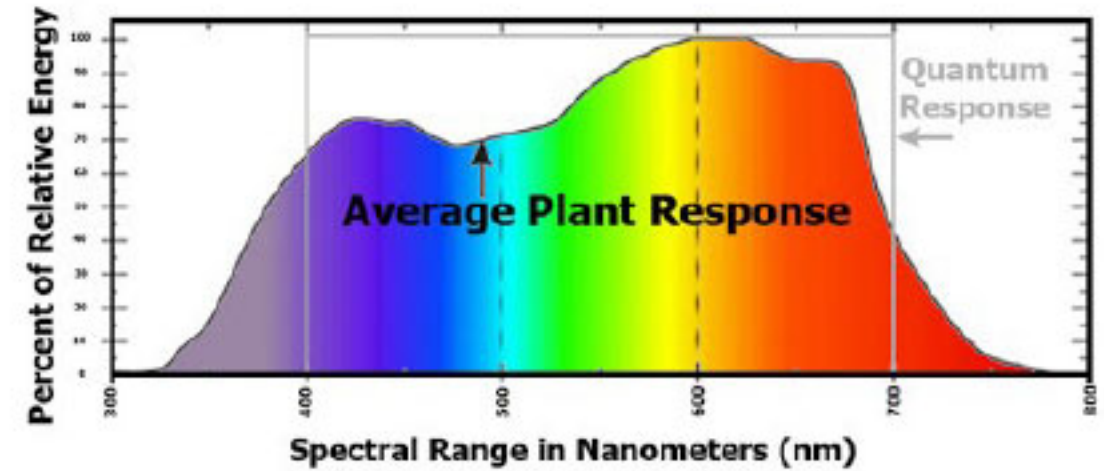
- Crucial for plant growth
- Promotes rapid growth from development of the plant
- Reduces plant stretch in flowering stage

## Green Spectrum of Light (500nm - 600nm)

- Important for seeing your plant's health and wellness

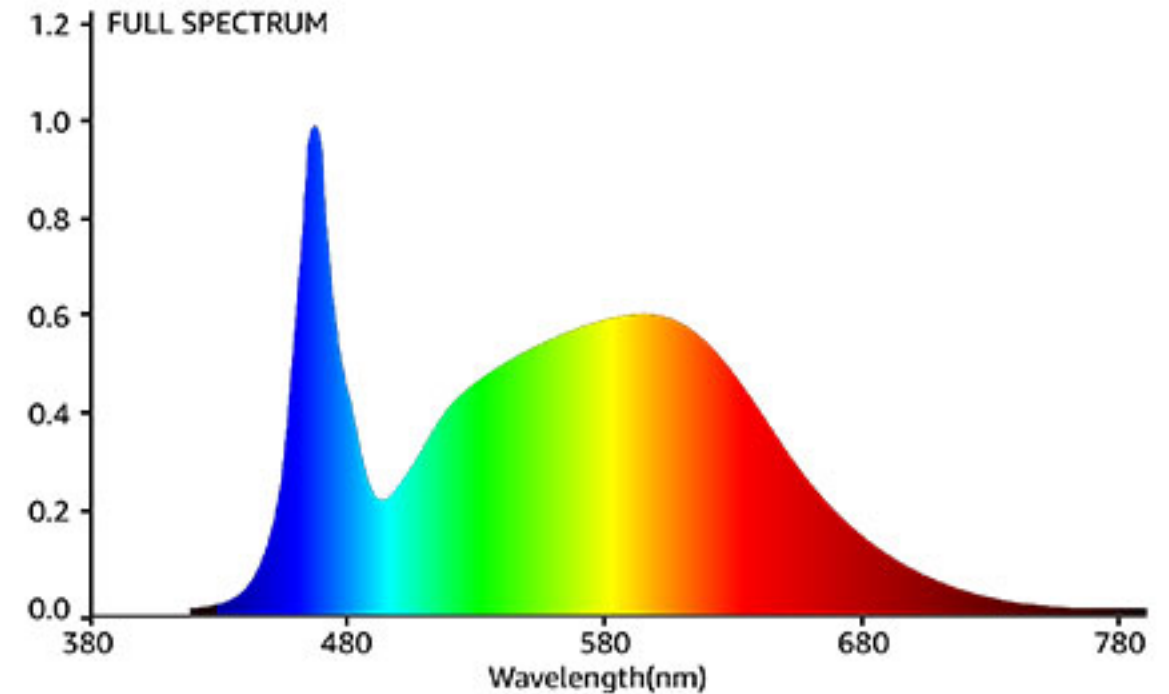


## The McCree Curve



Copyright 2014 Smart Grow Technologies - All Rights Reserved

## Neocision Spectra 320W 3-Bar VEG



## PERFORMANCE AND EFFICIENCY

PPF (400-700nm): 853  $\mu\text{mol/s}$

Life Span: 50,000 hours

Power Consumption: 340W AC

Light Distribution: 120 degrees

Input Voltage: 100-277 VAC

Fixture with Driver (net weight): 12 lbs



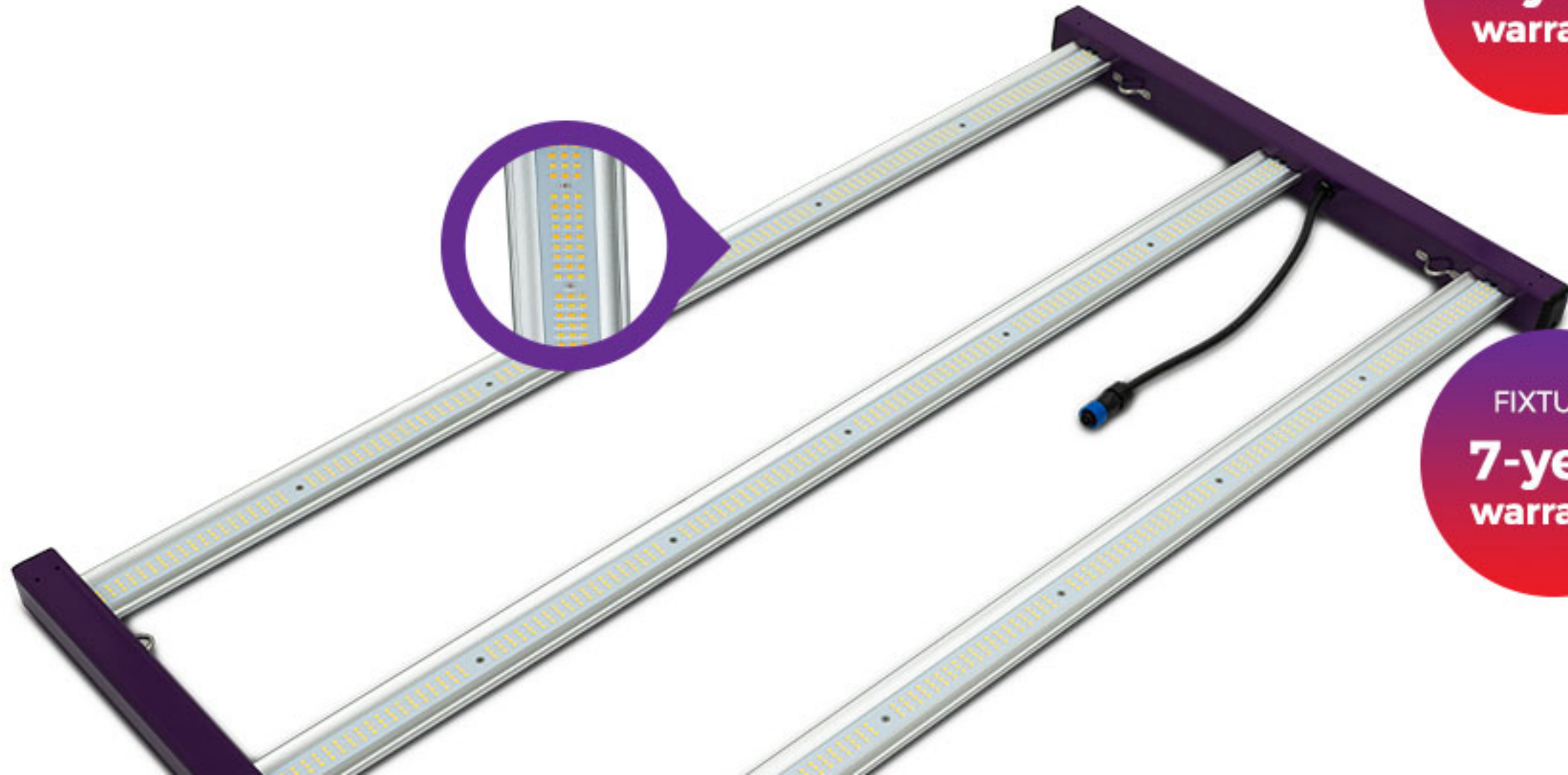
PPE  
**2.51**  
 $\mu\text{mol/J}$

## High Quality Components

- Leading LED chip manufacturers
- Extruded aluminum heat sinks



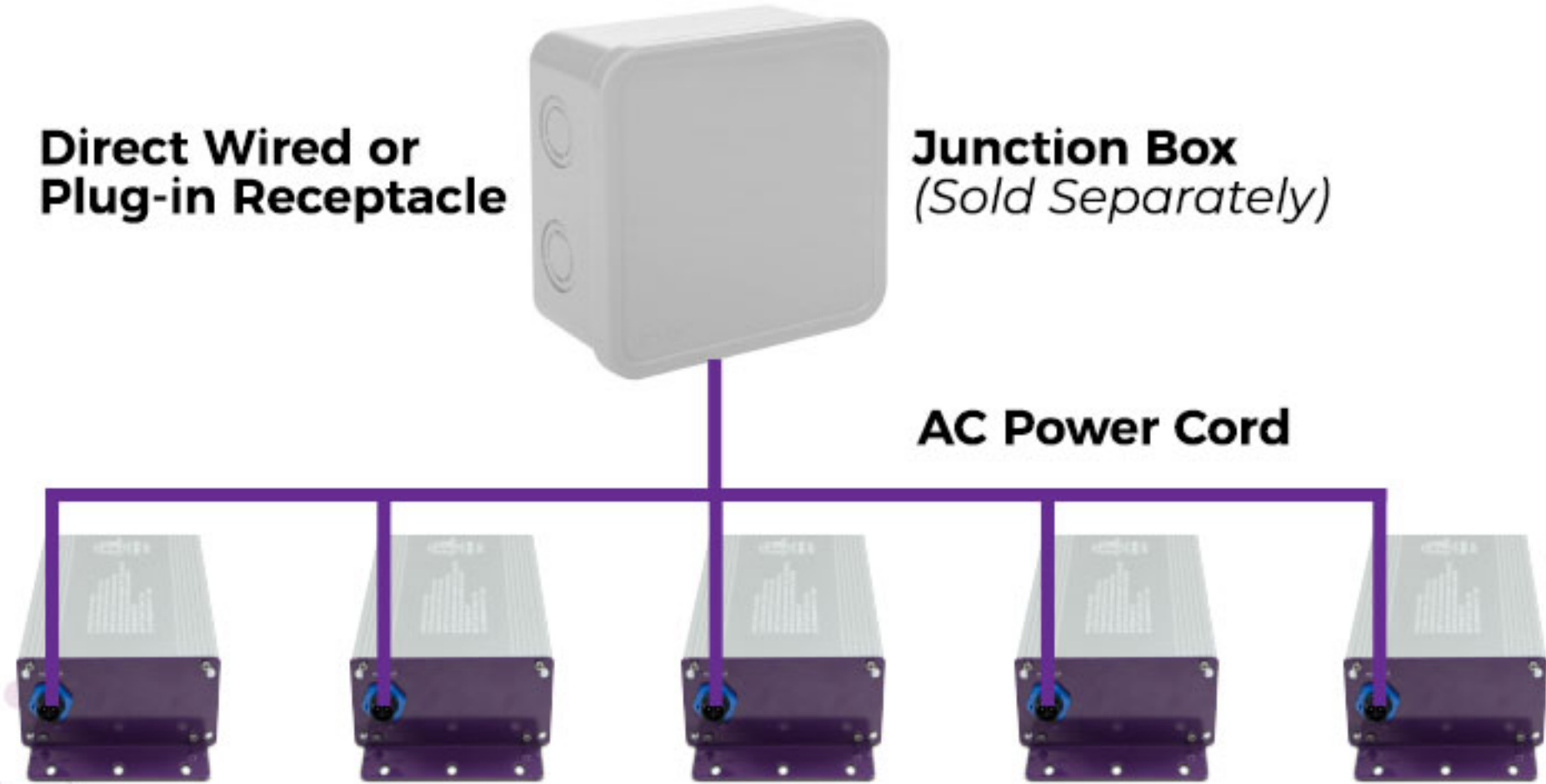
DRIVER  
**8-year warranty**



FIXTURE  
**7-year warranty**

# Custom Power Cables For Daisy Chaining

3-, 4-, and 5- fixture cable harnesses



**Faster Installation**



**Design Flexibility**

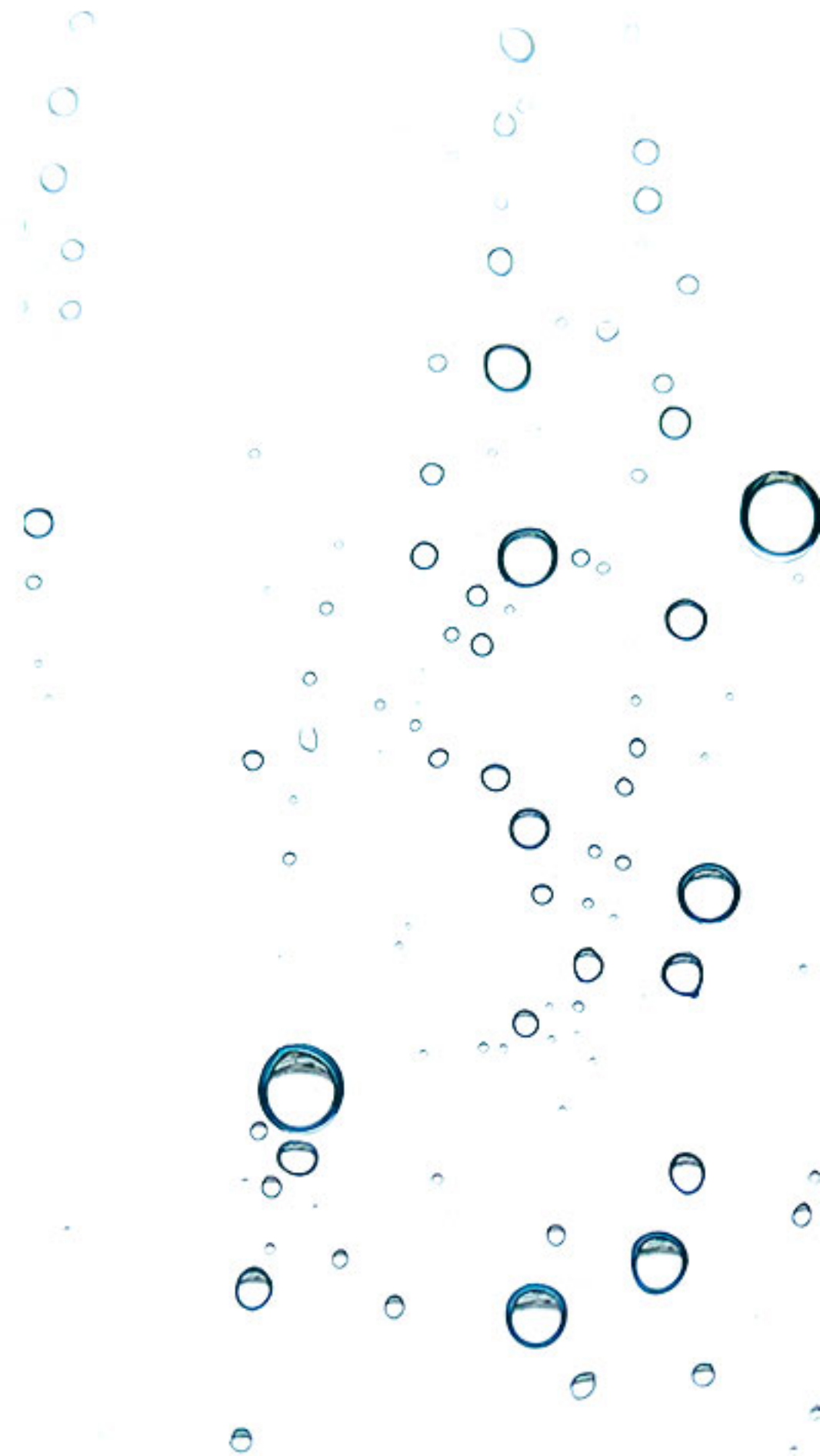


**Reduced Installation Costs**

**\*AC cable harnesses are custom order only, minimum order quantities apply.**

# IP66 RATED

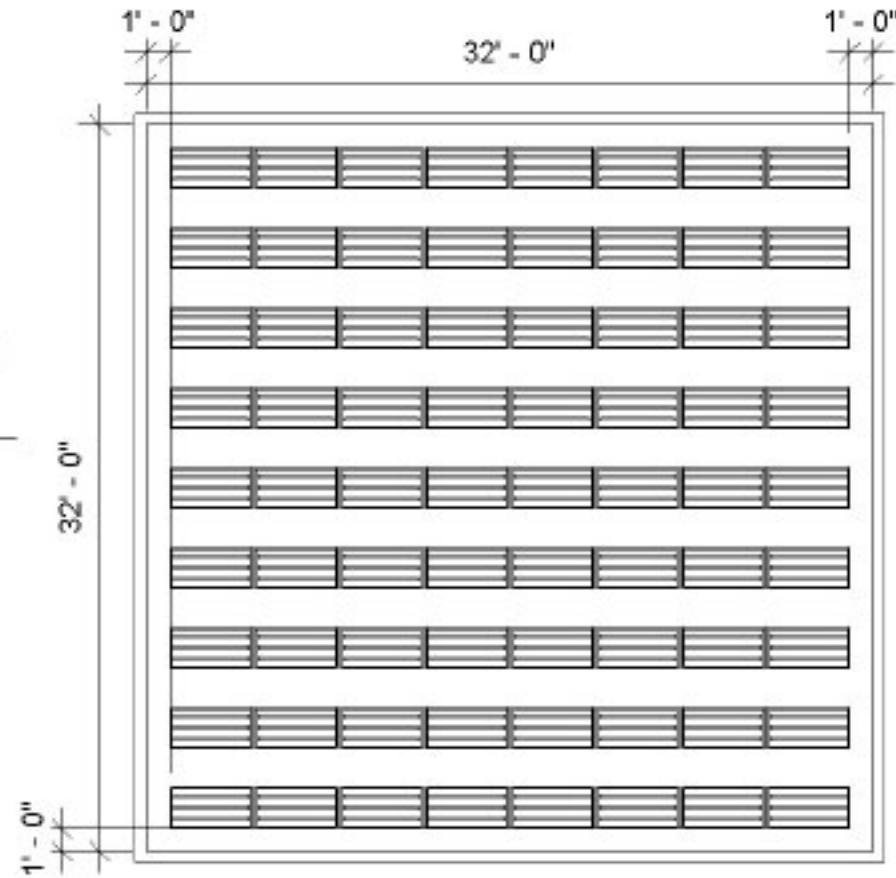
Compared to IP65, the IP66 enclosure can handle a higher level of pressurized water



# PPFD Values and Heat Map

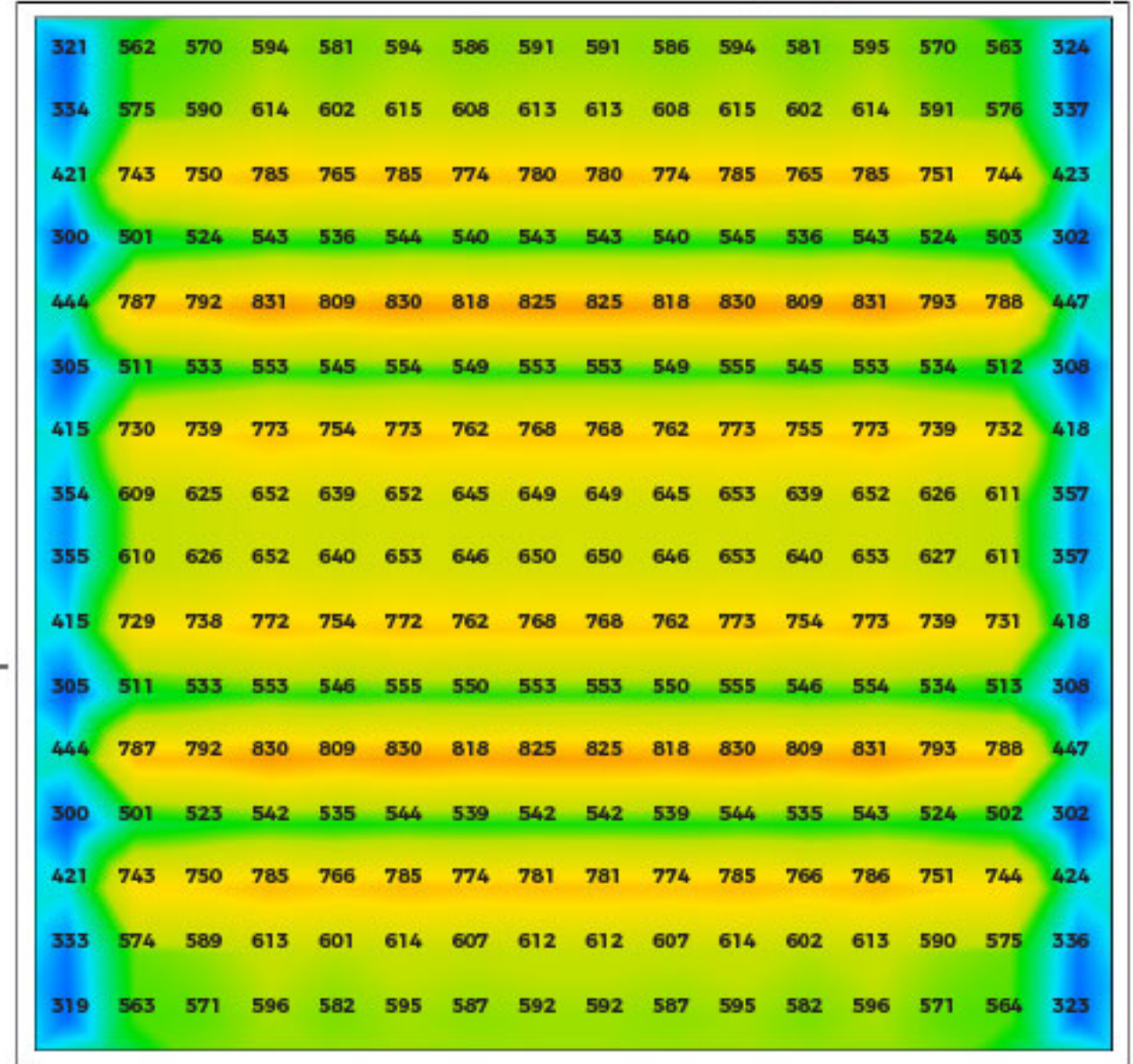
AVERAGE  
PPFD  
**618**

Lighting  
Layout



PPFD Values  
and Heat Map

32' x 32' Veg Room  
Fixtures at 18"  
from Canopy



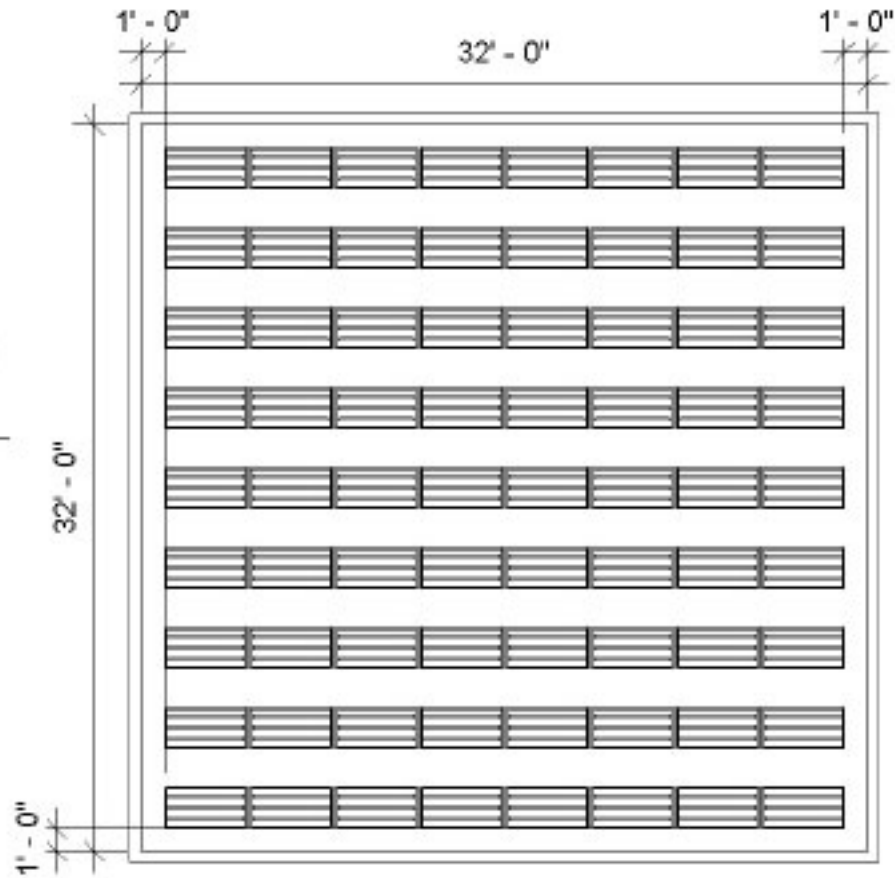
\*PPFD calculations based on the use of Elumtools – the most accurate software for creating and measuring lighting output and the only one with a specific horticulture mode for greenhouses and indoor cultivation.

\*\*Reflection values: 0% Ceiling, 80% Wall and 10% Floor.

# PPFD Values and Heat Map

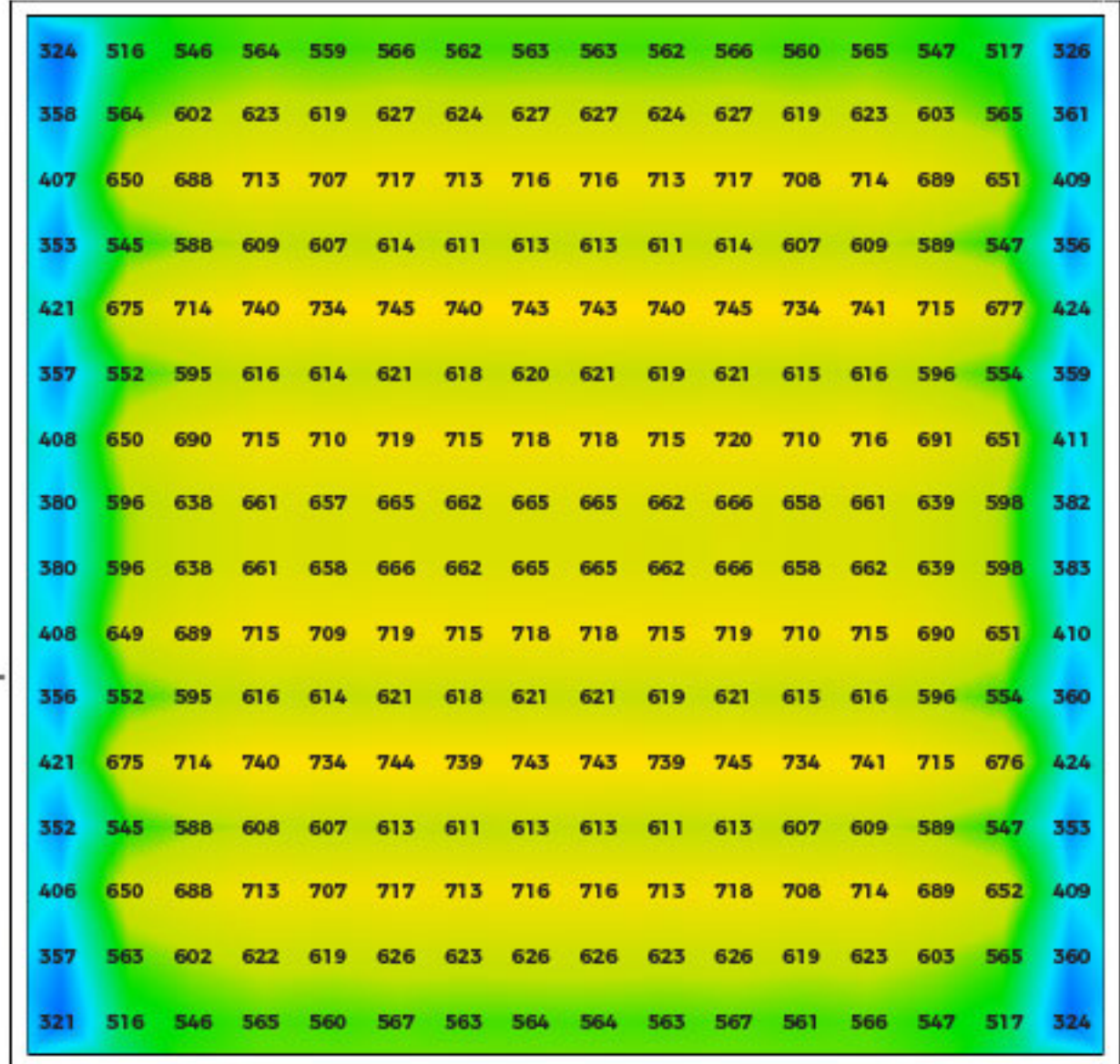
AVERAGE  
PPFD  
**610**

Lighting  
Layout



PPFD Values  
and Heat Map

32' x 32' Veg Room  
Fixtures at 24"  
from Canopy



\*PPFD calculations based on the use of Elumtools – the most accurate software for creating and measuring lighting output and the only one with a specific horticulture mode for greenhouses and indoor cultivation.

\*\*Reflection values: 0% Ceiling, 80% Wall and 10% Floor.



# Dimming Knob and Controls

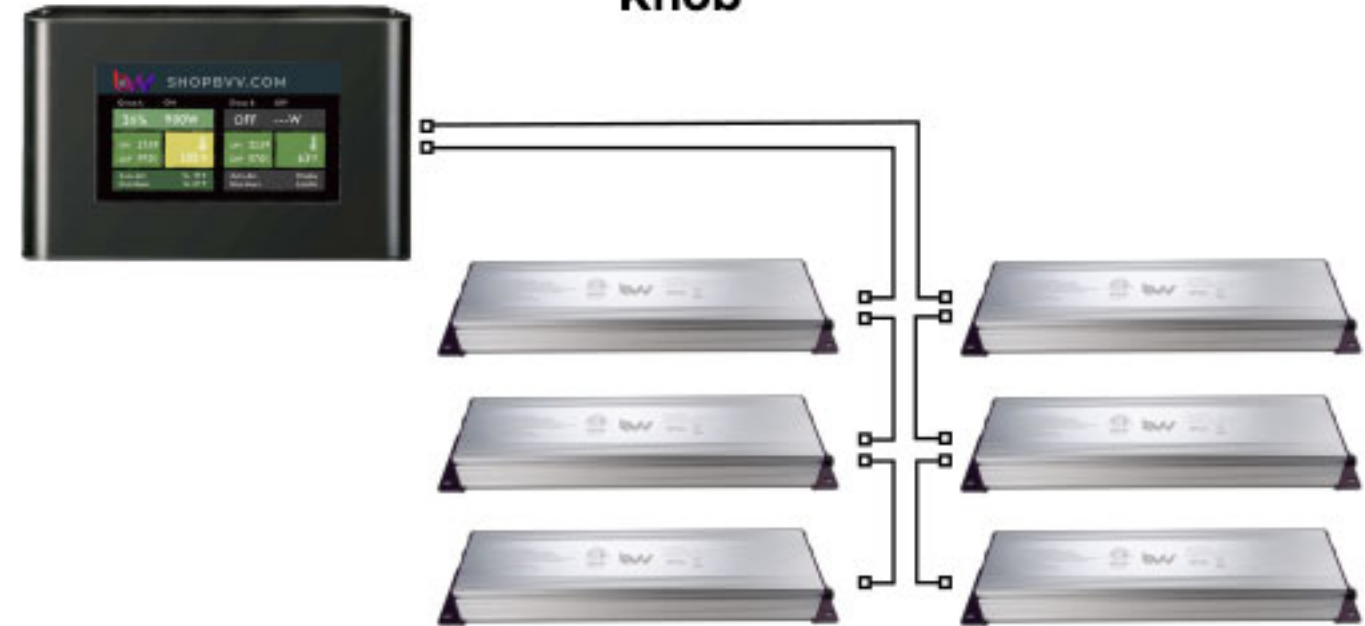
- Manually adjustable light intensity (from 100% to 10%, then to OFF)
- Energy saving
- Daisy chain fixtures to 0-10v external controller (sold separately)
- Number of daisy chained fixtures determined by controller signal power (dimming current 0.1 mA for fixture)



External Controller

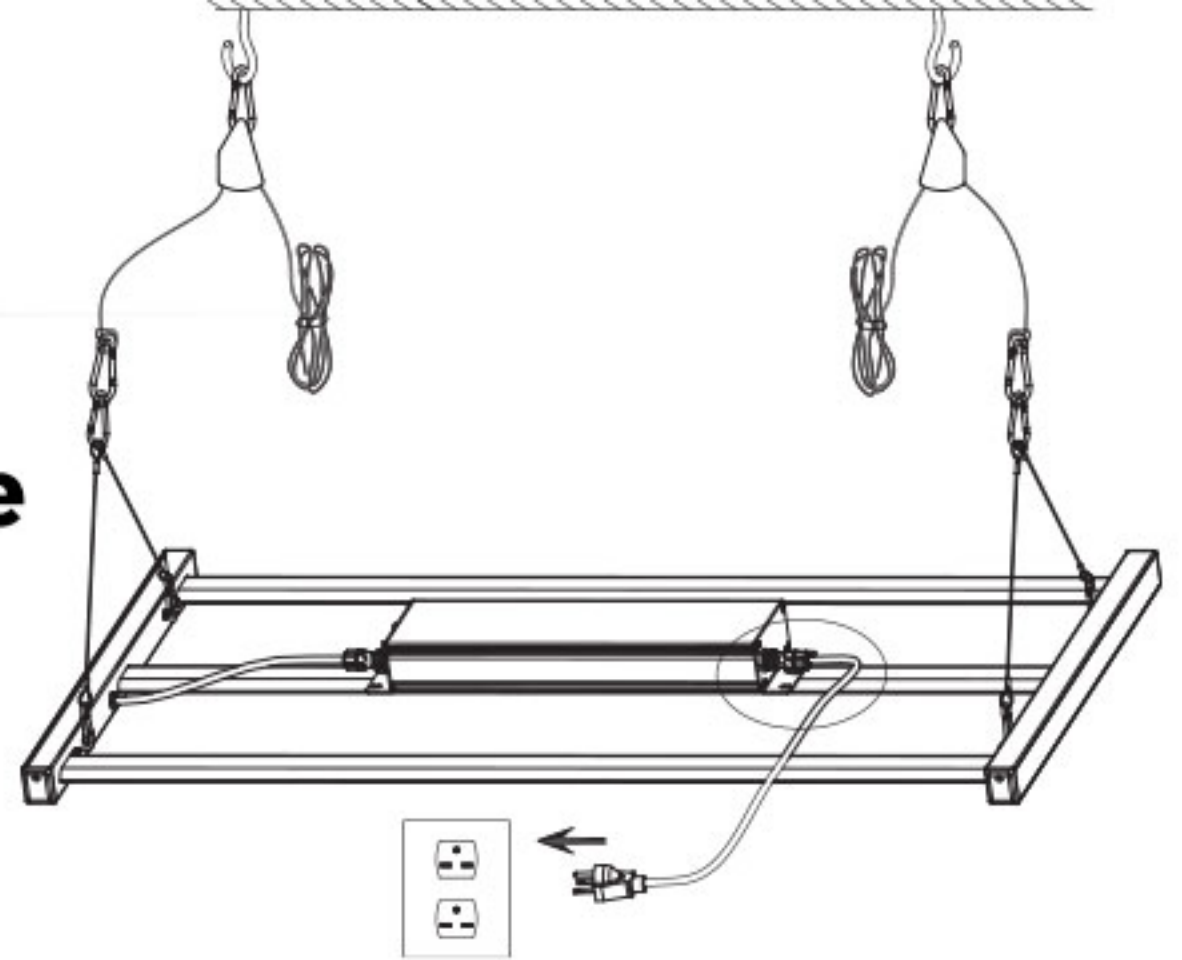
Dimming Knob

RJ Ports



## Easy Installation and Maintenance

- Fast installation (no specific tools required)
- Detachable driver for easy installation and maintenance
- LED fixtures mountable to supporting structure using adjustable rope ratchet hanger kits



## PACKAGE INCLUDES

- 3-Bar LED Luminaire
- DC power cable with male connector
- LED Driver
- AC power cord with 240 V Plug
- Knob Screws (2x)
- Carabiner Hooks (6x)
- Stainless Steel Ropes - 240 mm length (4x)
- Rope Ratchet Hanger Kits (2x)
- RJ Data Cable - 3 meters (1x)
- User Manual

