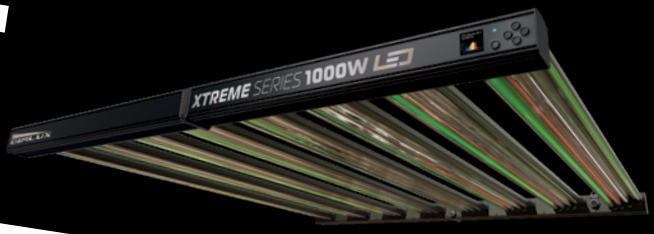
# DIMLUX

## XTREME SERIES LED GROW LIGHTS

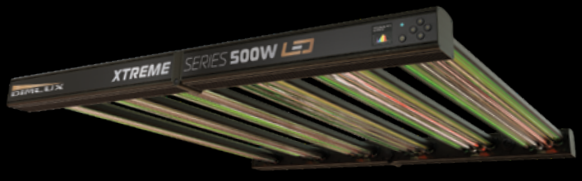
Available in 2 different spectra: With Far-Red or Without Far-Red (120V, 240V, or 277V)

## 1000 WATT




## 750 WATT

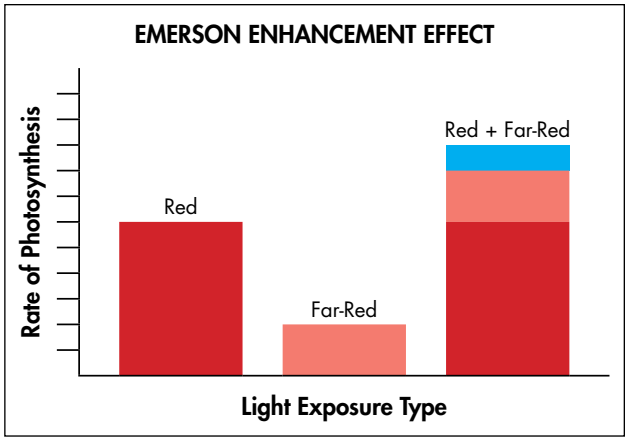

## 500 WATT

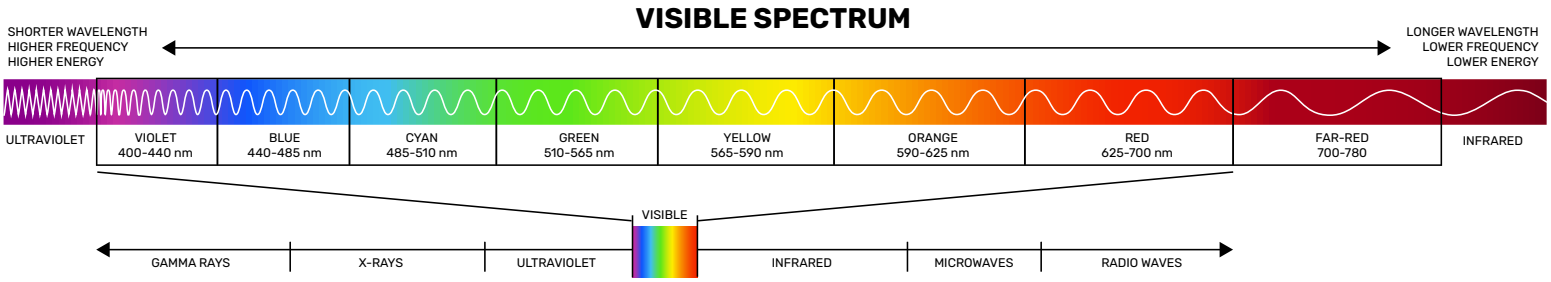


# WHY FAR-RED?

Studies have shown that combining red and far-red increases the photosynthetic rate beyond the sum of the individual contributions. Higher photosynthetic rates mean larger flowers. This is a case where one plus one equals greater than two! The Emerson Enhancement Effect chart to the right illustrates this.

**PRO-TIP:** Far-red does have its considerations. In sensitive plants, far-red can cause plants to stretch a bit more. If your grow is height-challenged you should consider a fixture that does not include it.



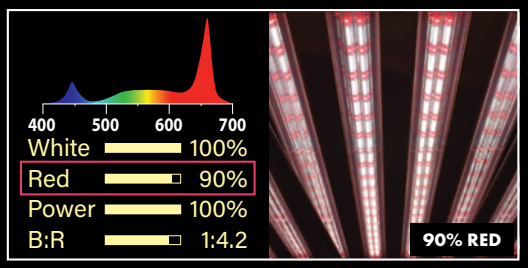



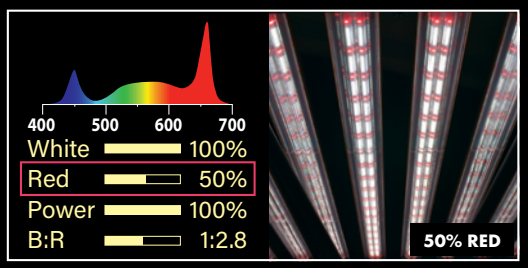

# SPECTRAL TUNABILITY

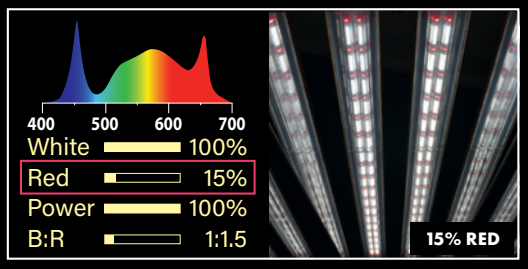
Many growers swear that there is a link between more red light in their spectrum and larger flowers. While the science is still out, this fixture will allow growers to begin to properly test this theory.

The white and red(s) LEDs are on separate channels and can be controlled independently. This allows the grower to change the spectrum of light that the plants are receiving.

Dimlux LED grow lights can be tuned from a 1:1 to more than 1:10 blue-to-red ratio (but not recommended to exceed 1:4.5). Most static spectra max out with a 1:2 blue-to-red ratio.




**NOT JUST FOR EXPERT GROWERS:**
If you would prefer to use automated settings rather than customizing your own light spectrum, Dimlux has made this easy by including a pre-set Grow and Bloom setting in the on-board controls. When daisy-chained together, a single fixture can control the spectra on the connected lights.


**Dimlux Xtreme Series lights offer SIGNIFICANTLY MORE RED than any other LED grow light.**

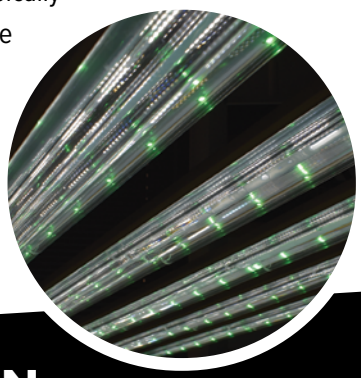
While other tunable fixtures can *technically* achieve these same ratios, it would require substantially turning down the white LEDs resulting in a severe decrease to the total output.

# ON-BOARD DISPLAY

Dimlux LEDs come with an on-board display. It's used to configure the light when operated stand-alone (no external controller) as well as display the current spectrum.


# DOPPLER RADAR PROXIMITY SENSOR

What if your grow light knew you were close by? With the built-in Doppler radar, these fixtures can! When working at night growers typically use green lights to not break the night cycle. With the aid of the radar, each fixture can turn on green night working lights automatically. Once the grower has moved away from the fixture the light will shut off after a user-programmable duration.



## COMING SOON...

Doppler radar can control UV Add-On Bars - UV in all its forms is potentially hazardous to work under. While small exposures to UV-A are generally considered safe, UV-B contains much more energy and caution should be taken when working near it. With the use of the radar, the UV Add-On Bars can be automatically turned off when someone is near.

*DIMLUX UV ADD-ON BARS WILL BE AVAILABLE SOON.*

**RGB INDICATOR LIGHTS**

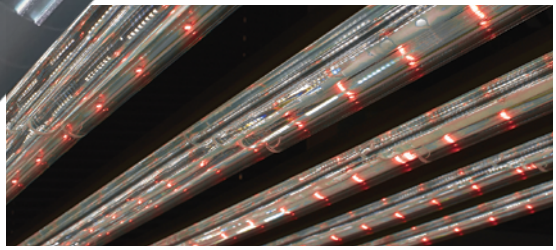
Dimlux LEDs have additional "light pipes" that contain full RGB indicator LEDs. When paired with sensors, these LEDs can provide visual feedback when issues are detected.

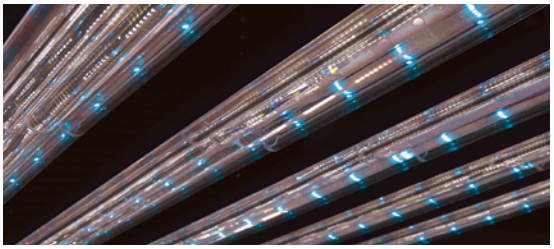
# PLANT TEMPERATURE CAMERA

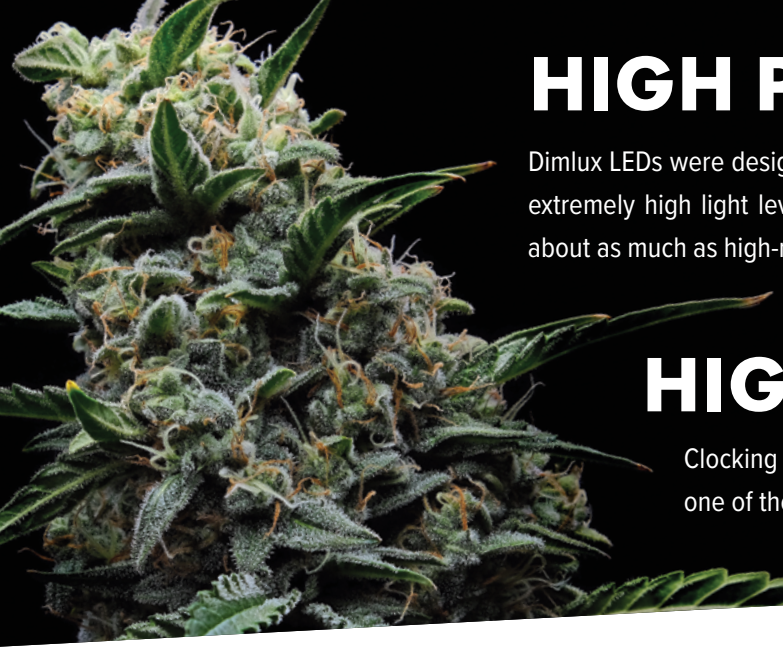
The Dimlux Plant Temperature Camera has been specifically designed for monitoring plants. The majority of other temperature cameras are designed to monitor building materials, hot liquids, etc. It's the plants' transpiration that causes other cameras to not read accurately. Unlike temperature guns that are designed to measure exact small spots, this camera detects a large area that can see more of your canopy for more accurate results.

1. Cold/Hot Spot Detection – With the Plant Temperature Camera plugged directly into the LED fixture, it can detect changes in the temperature of the canopy. When it detects a too-hot condition, red auxiliary LEDs turn on. If a too-cold condition is found, blue indicator LEDs will turn on.

2. "Irrigation Monitor" – Plants cool themselves through transpiration. This effect is akin to how swamp coolers cool people's homes and businesses. When an irrigation line becomes blocked, the plants run out of water to transpire thus heating the plant's leaf surfaces and triggering the red indicator lights.







# HIGH PHOTON OUTPUT

Dimlux LEDs were designed using the top bin emitters paired with high voltage drivers to deliver extremely high light levels. Dimlux's 1000W LED fixture can produce over 2000 µmol $m^{-2}$ $s^{-1}$ – about as much as high-noon sun in the middle of summer. High light output equals larger flowers.

# HIGH PHOTON EFFICACY

Clocking in at over **2.9 µmol/J** photon efficacy, Dimlux's 1000W LED grow light is one of the most efficient full-spectrum lights available.

# SECONDARY OPTICS

**DID YOU KNOW?** Dirty LEDs can lose a significant amount of their output – greater than 10% in many cases.


There are two main reasons for the inclusion of secondary optics:

1. They focus the light on the canopy and not on the walls or aisles.
2. They provide a hard covering for emitter protection and they can be properly cleaned.

Lights that are only protected by a conformal coating are a challenge to clean. You cannot wipe conformal coated LEDs with a rag as the protective coating will get damaged/scraped off exposing electrical connections. The only viable option is to use compressed air. This will remove some of the dirt but none of the build-up from sprayers, atomizers, and foggers.

## END-USER FIRMWARE UPDATES

Technology does not sit still. Just like many of your other electronic devices, these grow lights can be updated to the latest offerings via a wireless access point (Wi-Fi) that is built into each fixture.


**PLEASE NOTE:** The fixture is not connected to the Internet so no security issues are being introduced into your home or facility.

DIMLUX

Dimlux Lighting is exclusively distributed in North America by Global Garden®
DimluxLighting.com | GlobalGarden.co | 310-362-0550

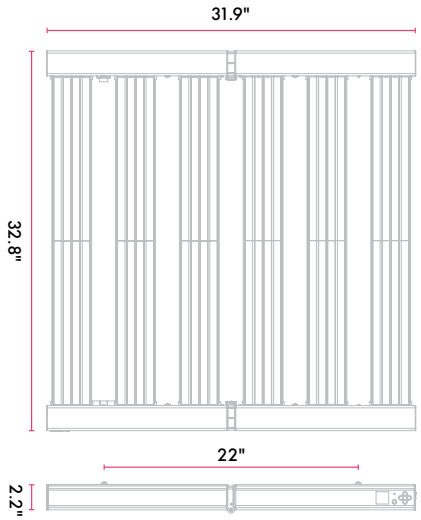
### WHO IS DIMLUX LIGHTING?

Since its inception, founder and inventor, Ronald van de Oudeweetering, has approached product development wanting to LEAD BY EXAMPLE AND INNOVATION. As a former cultivator, Ronald is keenly aware of real-world grow room demands; and as an engineer, he and his team have the understanding and ingenuity to address them. From introducing the first flat digital HPS DE fixture, to now bringing the most versatile LED to the market, DIMLUX HAS ALWAYS VALUED EFFICIENCY, LIGHT OUTPUT, AND UNIFORMITY with a keen understanding of its relationship to the grow room environment.

# SPECIFICATIONS

## XTREME SERIES 500W LED

| | |
|---|---|
| AC Input Power | 540w @ 240V AC |
| Dimensions (L x W x H) | 32.8" x 31.9" x 2.2" |
| Space Between Hanging Hardware | 22" |
| **Adjustable PhytoVegSpec® Indoor** | |
| Light Output (PPF) | 1500 µmol/s |
| System Efficacy | 2.85 µmol/J @ 240V |
| **Adjustable PhytoVegSpec® + Far-Red (NIR) Indoor** | |
| Light Output (PPF) | 1420 µmol/s |
| System Efficacy | 2.67 µmol/J @ 240V |



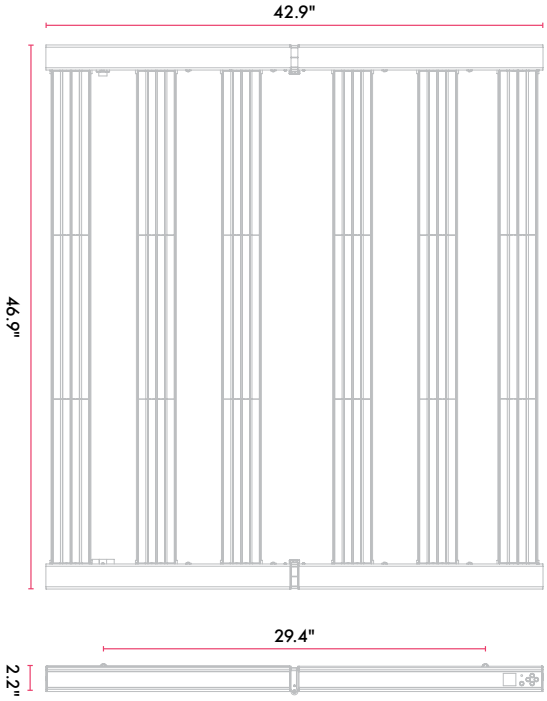

500W LED

TOP VIEW

SIDE VIEW

## XTREME SERIES 750W LED

| | |
|---|---|
| AC Input Power | 799w @ 240V AC |
| Dimensions (L x W x H) | 46.9" x 42.9" x 2.2" |
| Space Between Hanging Hardware | 29.4” |
| **Adjustable PhytoVegSpec® Indoor** | |
| Light Output (PPF) | 2276 µmol/s |
| System Efficacy | 2.92 µmol/J @ 240V |
| **Adjustable PhytoVegSpec® + Far-Red (NIR) Indoor** | |
| Light Output (PPF) | 2159 µmol/s |
| System Efficacy | 2.7 µmol/J @ 240V |



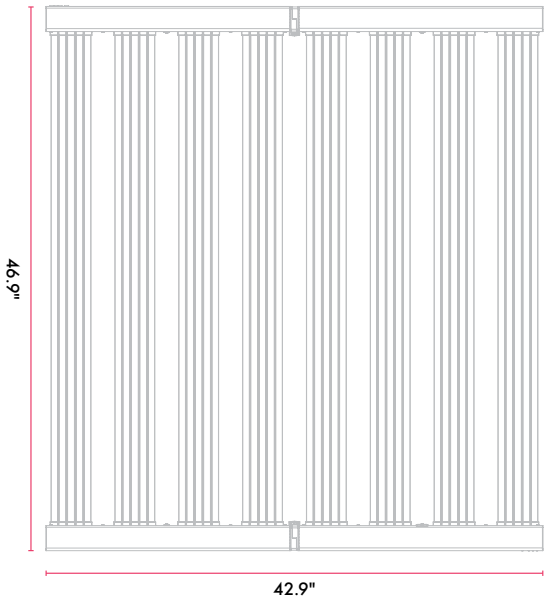

750W LED

TOP VIEW

SIDE VIEW

## XTREME SERIES 1000W LED

| | |
|---|---|
| AC Input Power | 1065w @ 240V AC |
| Dimensions (L x W x H) | 46.9" x 42.9" x 2.2" |
| Space Between Hanging Hardware | 29.4” |
| **Adjustable PhytoVegSpec® Indoor** | |
| Light Output (PPF) | 3110 µmol/s |
| System Efficacy | 2.92 µmol/J @ 240V |
| **Adjustable PhytoVegSpec® + Far-Red (NIR) Indoor** | |
| Light Output (PPF) | 2879 µmol/s |
| System Efficacy | 2.7 µmol/J @ 240V |




TOP VIEW

1000W LED

| | |
|---|---|
| Light Source | LED |
| AC Input Voltage | 120-277V AC, 50/60Hz |
| Beam Angle | 90° × 120° |
| Optics | **Patented** Deep Penetration Ultra High Transmittance Lens |
| Auxiliary Light | **Patented** Light Pipe Multi Color 65k |
| Proximity Sensor | Doppler Radar |
| Mounting Height | (2-3 ft) Depending on chosen intensity |
| Thermal Management | Passive |
| Max. Ambient Temp. | 105°F / 40°C |
| Control | By Maxi Controller or Internal Controller |
| Smartports (3x) | For Dimlux Sensors & Interlink Cables |
| Spectrum & GUI Display | 1.54" 65k Color (IPS) |
| Total Harmonic Distortion (THD) | < 10% |
| Lifetime L90 (Q90) | > 50,000h |
| IP Rating | IP65 |
| Certifications | CE, UL 8800, UL 1598 Wet Location, DLC |
| Warranty | 5 Year Standard |