

# PROFESSIONAL LED SOLUTIONS FOR COMMERCIAL CROP CULTIVATION

Mars Hydro provides cost-effective LED lighting solutions for indoor and greenhouse cultivators, help you get higher-quality yields, and increase revenue per square foot.

Website : [www.mars-hydro.com](http://www.mars-hydro.com)  
Email : [info@mars-hydro.com](mailto:info@mars-hydro.com)  
Tel : +1 626 587 8506



# SP

Highest penetration  
Powerful & efficient

Full-spectrum, small and efficient. The SP series provides evenly distributed PPFD, a high light output per fixture, and helps to reduce your grow system cost per area. The high penetration brings bountiful harvests for growers who cultivate tall plants.

Greenhouse

# FC/FC-E

Maximize grow space  
Optimal uniformity crops

Whether growing food, medical or ornamental plants, the Mars Hydro FC/FC-E series was designed for single or multi-tier growers who want to optimize their grow space for maximum crop yield, while producing the highest quality crops.

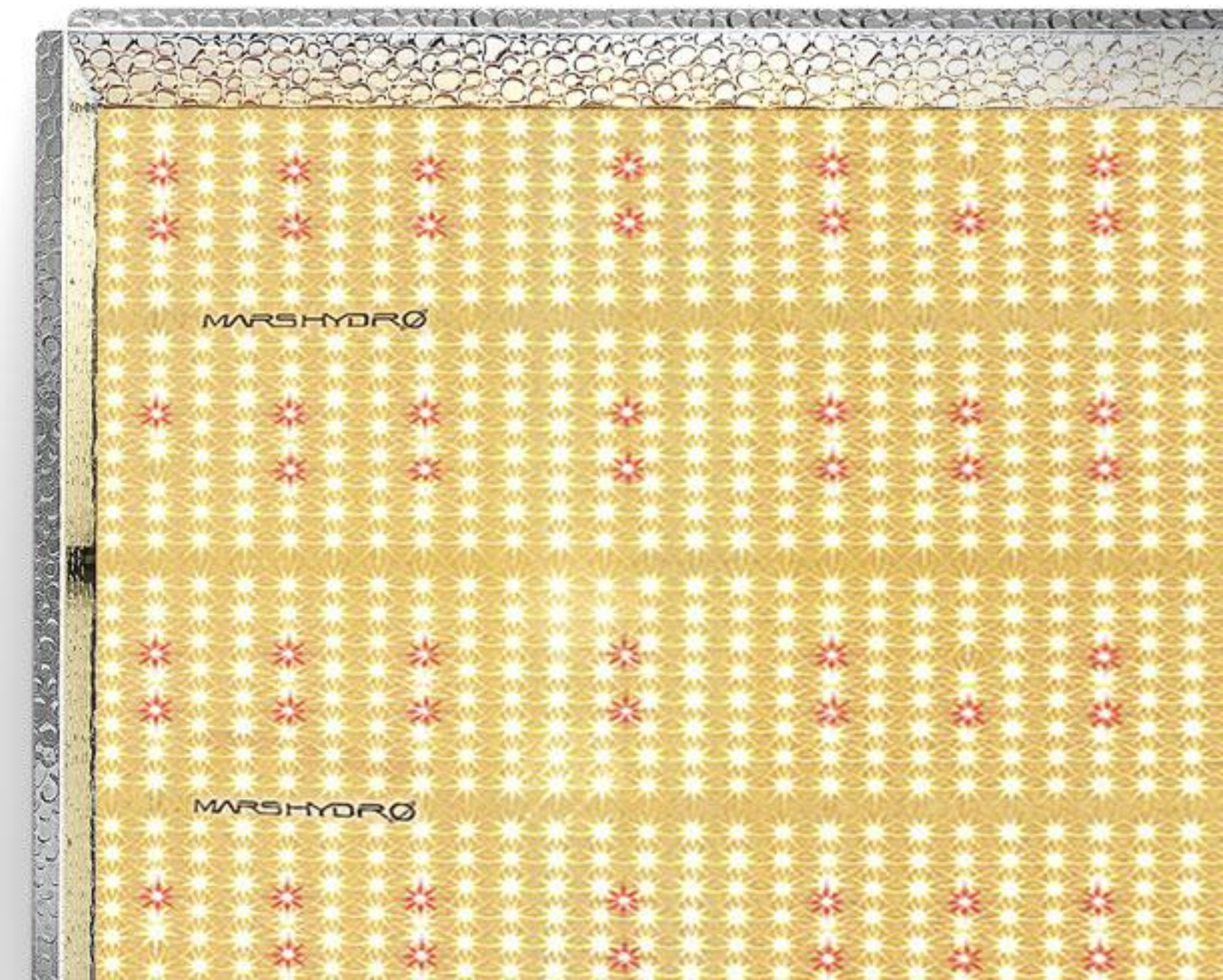
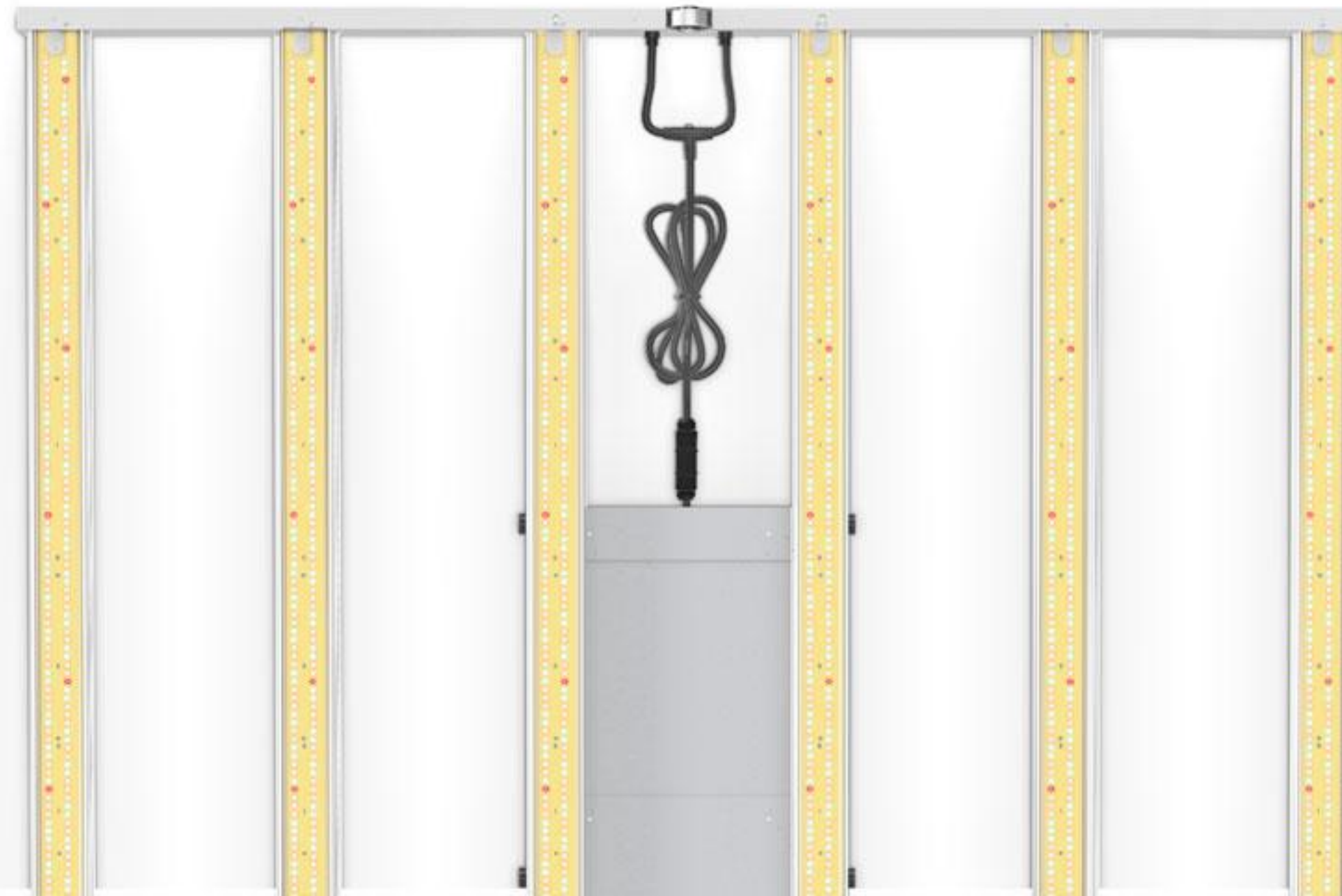
Indoor+Vertical

# TS

Best budget light  
Patented design

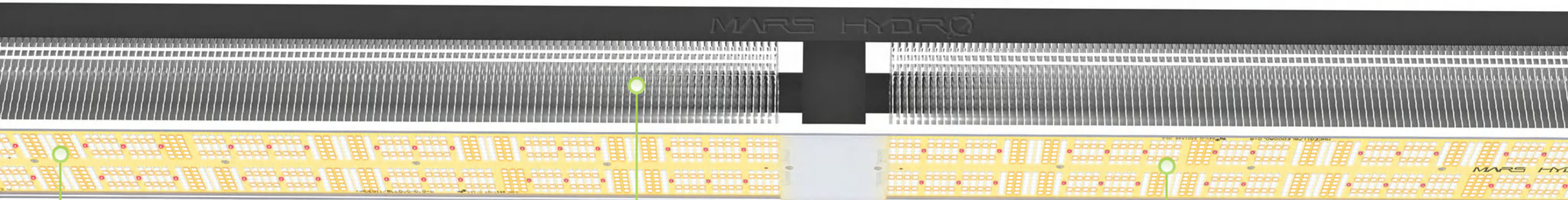
Mars Hydro TS 3000 Led Grow Light, fanless design, Upgraded Daisy-Chain Dimming boxes. Providing a silent grow room for you with a full spectrum layout and the latest SMD LED Chipsto optimize your plants' output and making it ideal for all kinds of indoor plants from veg to bloom and all growth stages in between.

Indoor+Veg Room





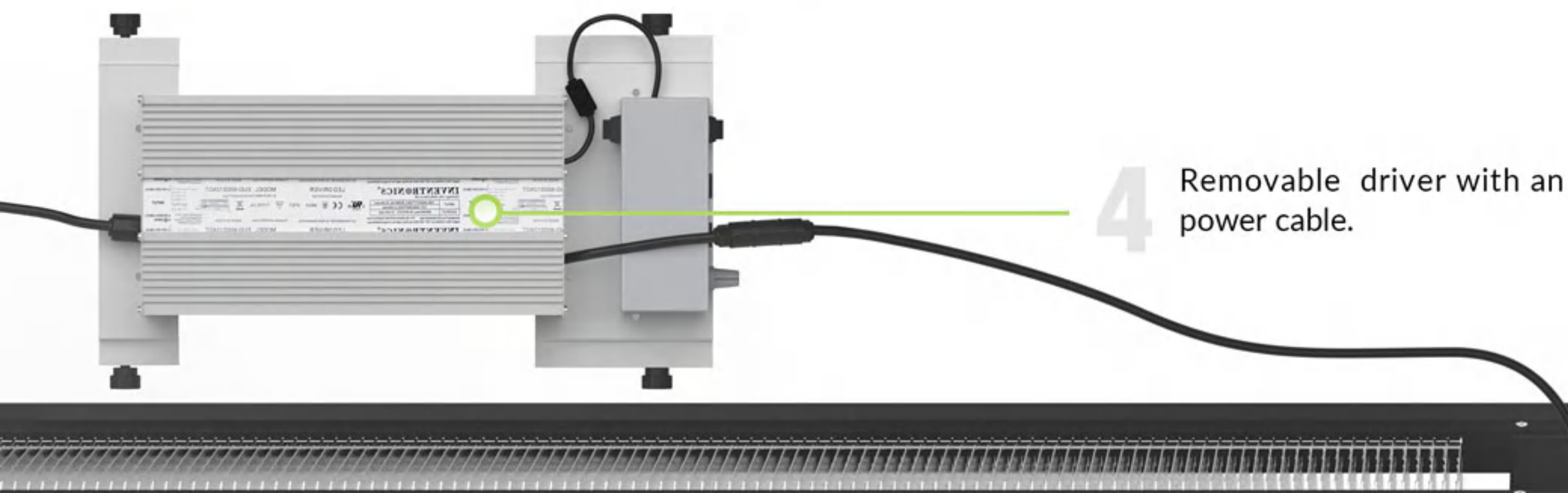
# SP Series



**1** Top bin Samsung and Osram LEDs with a PPF of up to 2426  $\mu\text{mol/s}$  providing superior efficiency of up to 2.8  $\mu\text{mol/J}$ . An excellent choice to replace a 1000W HPS light for increased energy saving.

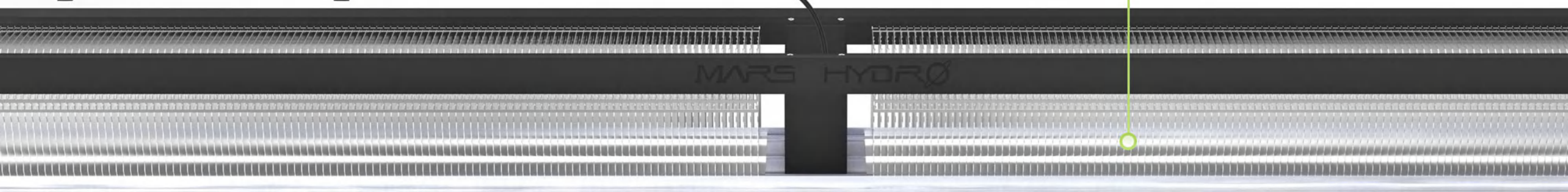
**2** Passively cooled, all body thick aluminum heat sink design achieves optimal heat dissipation.

**3** IP 65 Waterproof rating. Never worry about splashes and sprays again.



**4** Removable driver with an extended power cable.

**5** The ability to be mounted at different angles, making it great for supplemental lighting and flexible enough to fit any grow space.





UP TO 20 LIGHTS DIMMING DAISY CHAIN



## INDOOR + SUPPLEMENT LIGHTING

SP 3000, 300w, with 960pcs Samsung and Osram 660nm diodes. These advanced chips increases the light' s efficiency to  $2.8 \mu\text{mol/J}$  . The rectangular design allows for consistent light uniformity. The SP 3000 is ideal for distributing light uniformly in rooms with a low ceiling, allowing for denser crop production. The SP 3000 can be mounted at different angles, making it great for supplemental lighting and flexible enough to fit any grow space.

# SP 3000





Light penetration is important for high and dense plants in a single rack commercial grow room. SP 6500, 650w, with 2,376 pcs Samsung and Osram diodes on a single bar provides phenomenal light intensity and high penetration, providing light deep enough to reach the whole plant, reducing shadows on plants and making it ideal for greenhouse supplemental lighting.

# GREENHOUSE

## SP 6500

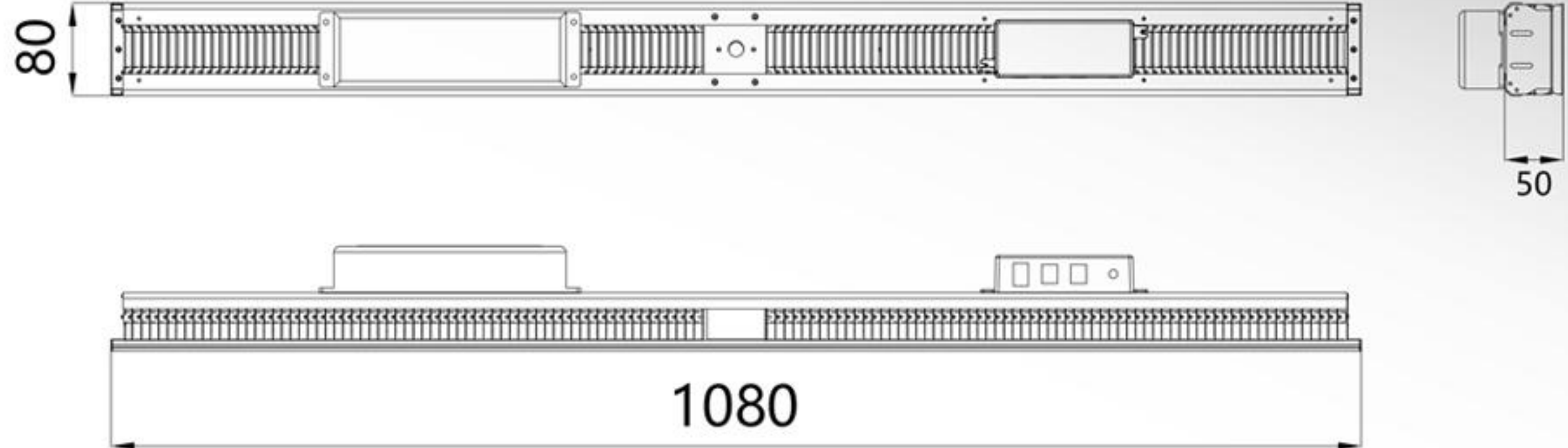
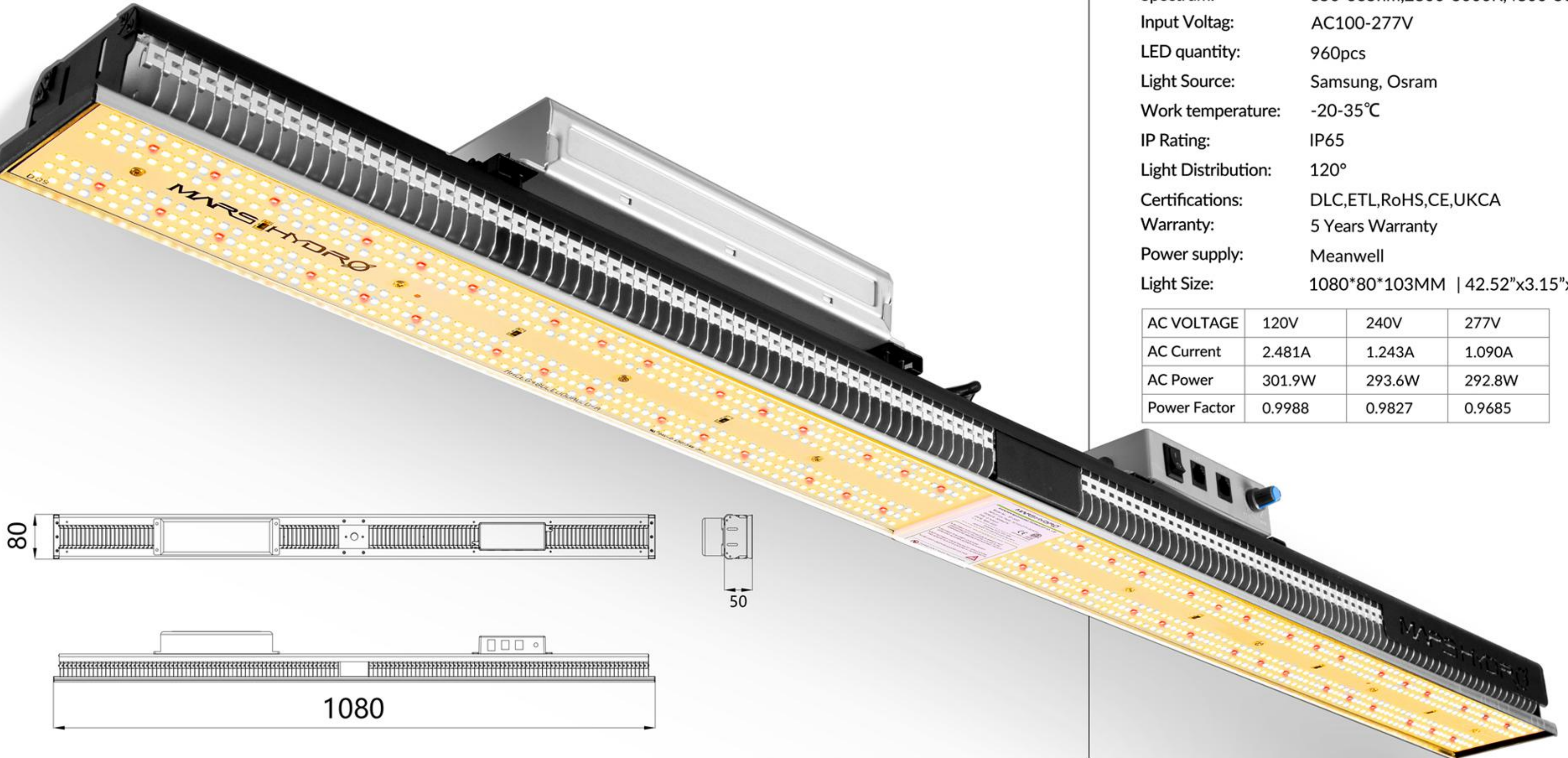


# SP 3000

## SPECIFICATIONS

Model:	SP-3000
Veg Coverage:	5FT*2FT
Flower Coverage:	4FT*2FT
PPE:	2.8 $\mu\text{mol}/\text{J}$
Par Value:	848.46 $\mu\text{mol}/\text{s}$
Spectrum:	650-665nm,2800-3000K,4800-5000K
Input Voltage:	AC100-277V
LED quantity:	960pcs
Light Source:	Samsung, Osram
Work temperature:	-20-35°C
IP Rating:	IP65
Light Distribution:	120°
Certifications:	DLC,ETL,RoHS,CE,UKCA
Warranty:	5 Years Warranty
Power supply:	Meanwell
Light Size:	1080*80*103MM   42.52"x3.15"x4.05"

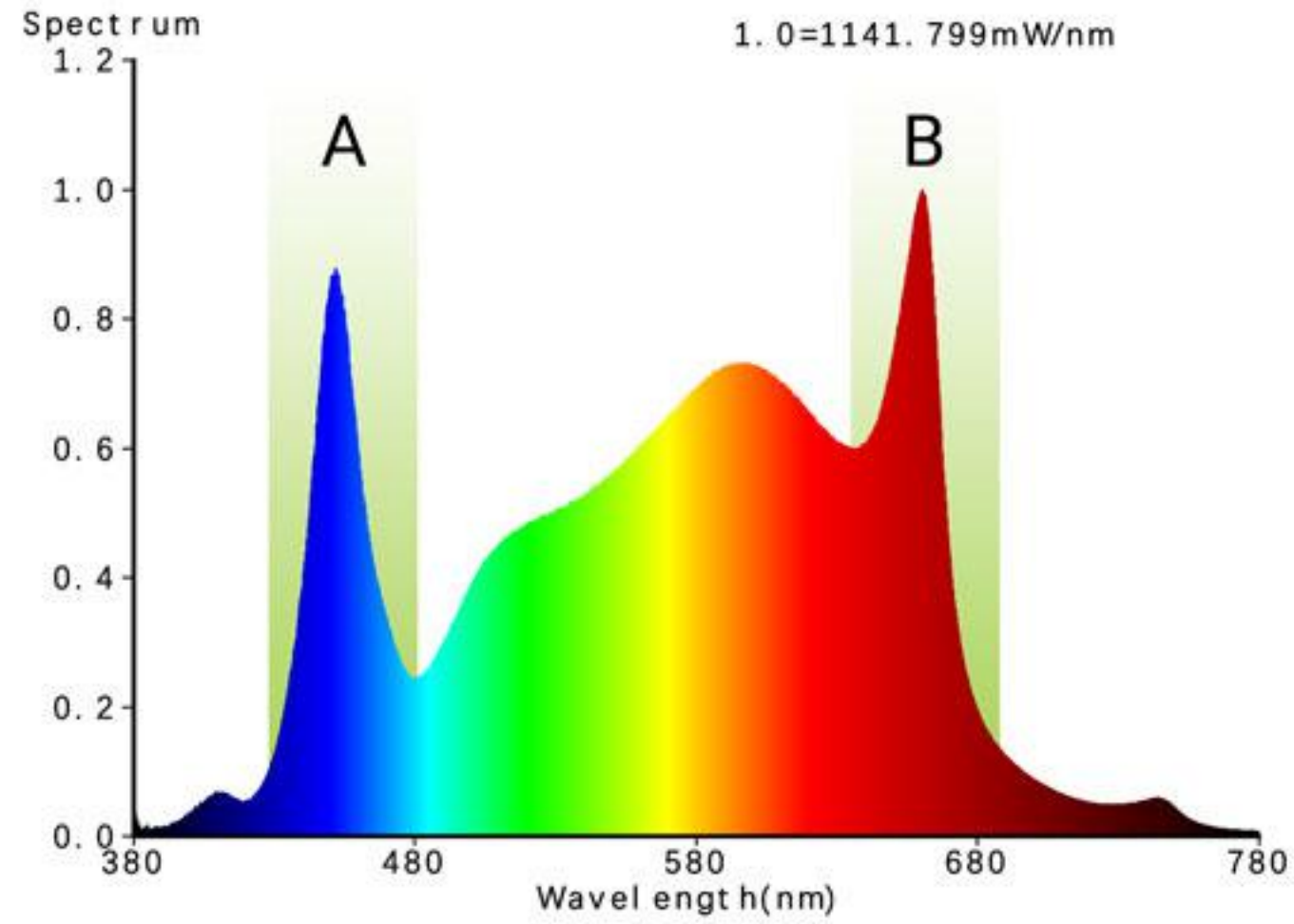
AC VOLTAGE	120V	240V	277V
AC Current	2.481A	1.243A	1.090A
AC Power	301.9W	293.6W	292.8W
Power Factor	0.9988	0.9827	0.9685





# PAR OUTPUT OF MARS SP 3000

## SPECTRUM GRAPH



## SP 3000

**SAMSUNG** **OSRAM** DIODES INCREASE CROP YIELDS BY UP TO 50%

Warm White Light (3000K): Boosts plants blooms ■ Red Light (660nm): Speed plants germination

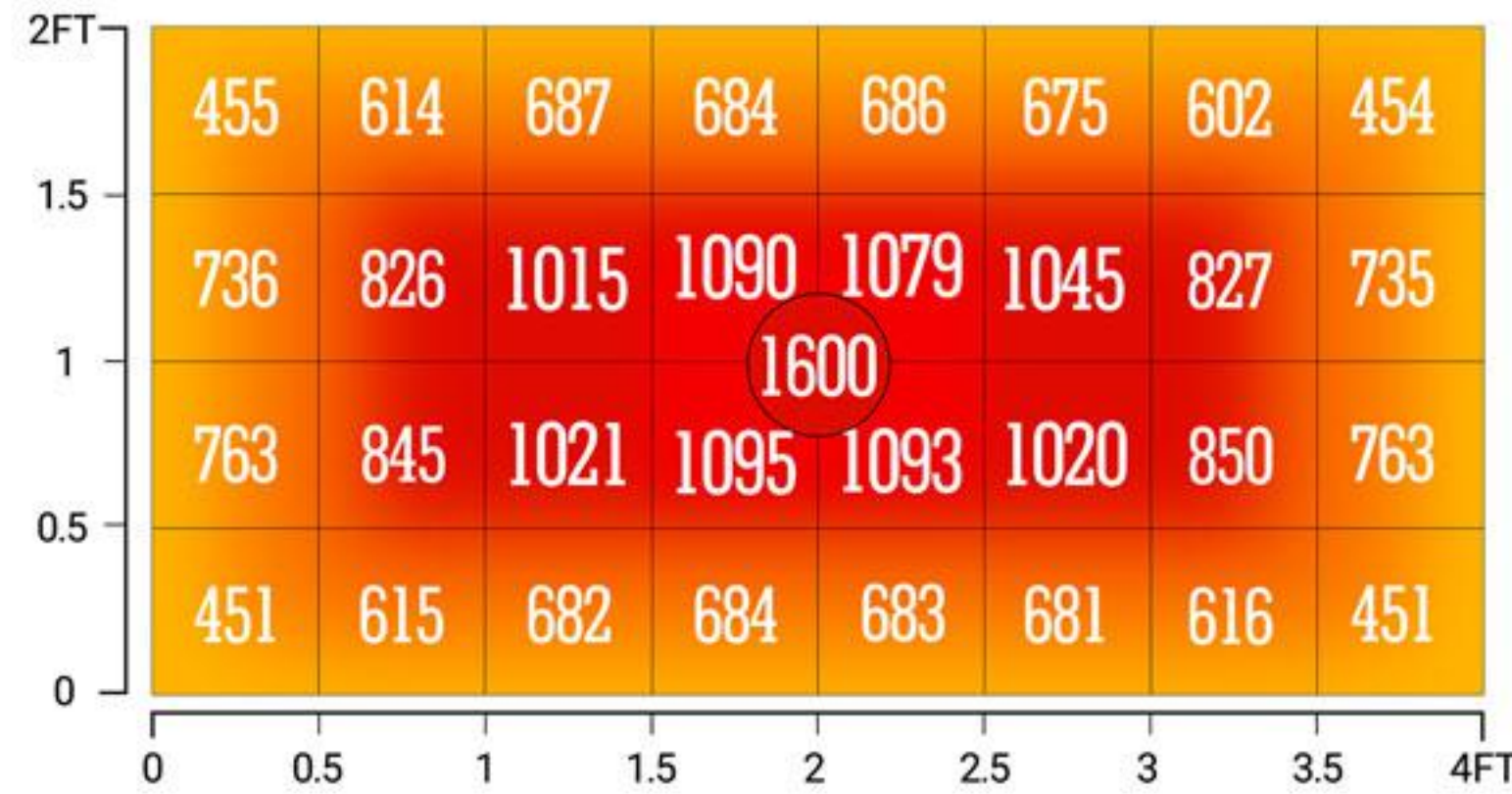
White Light (5000K): Promotes plants germination

**A** Enhanced Blue Spectrum: Promote veg, accelerate growth

**B** Rich Red Spectrum: Boost crop yield & quality

## Tested at Coverage 4ft x 2ft

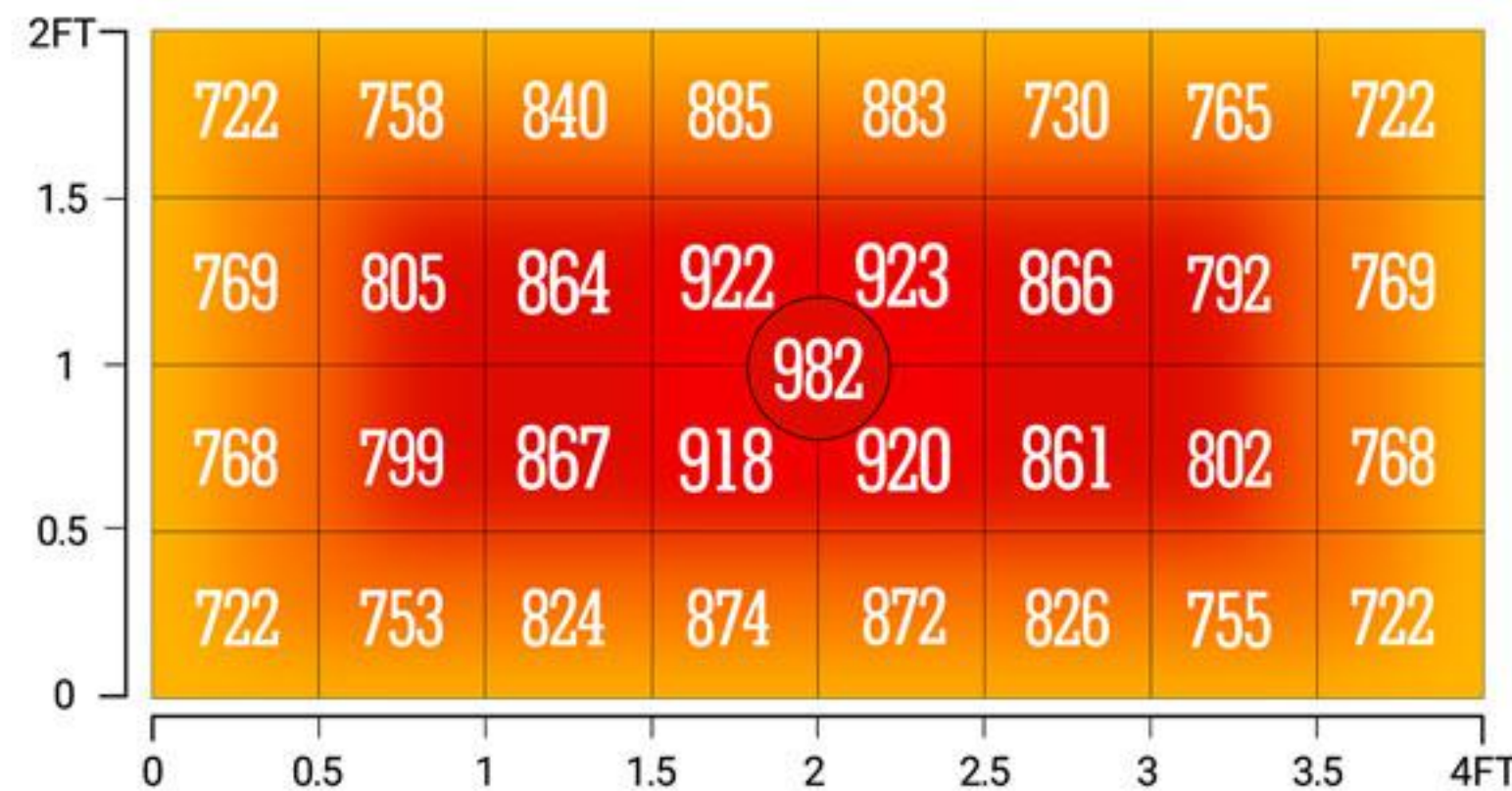
### At Height of 12" / Bloom



### At Height of 18" / Veg or Bloom



### At Height of 22" / Veg

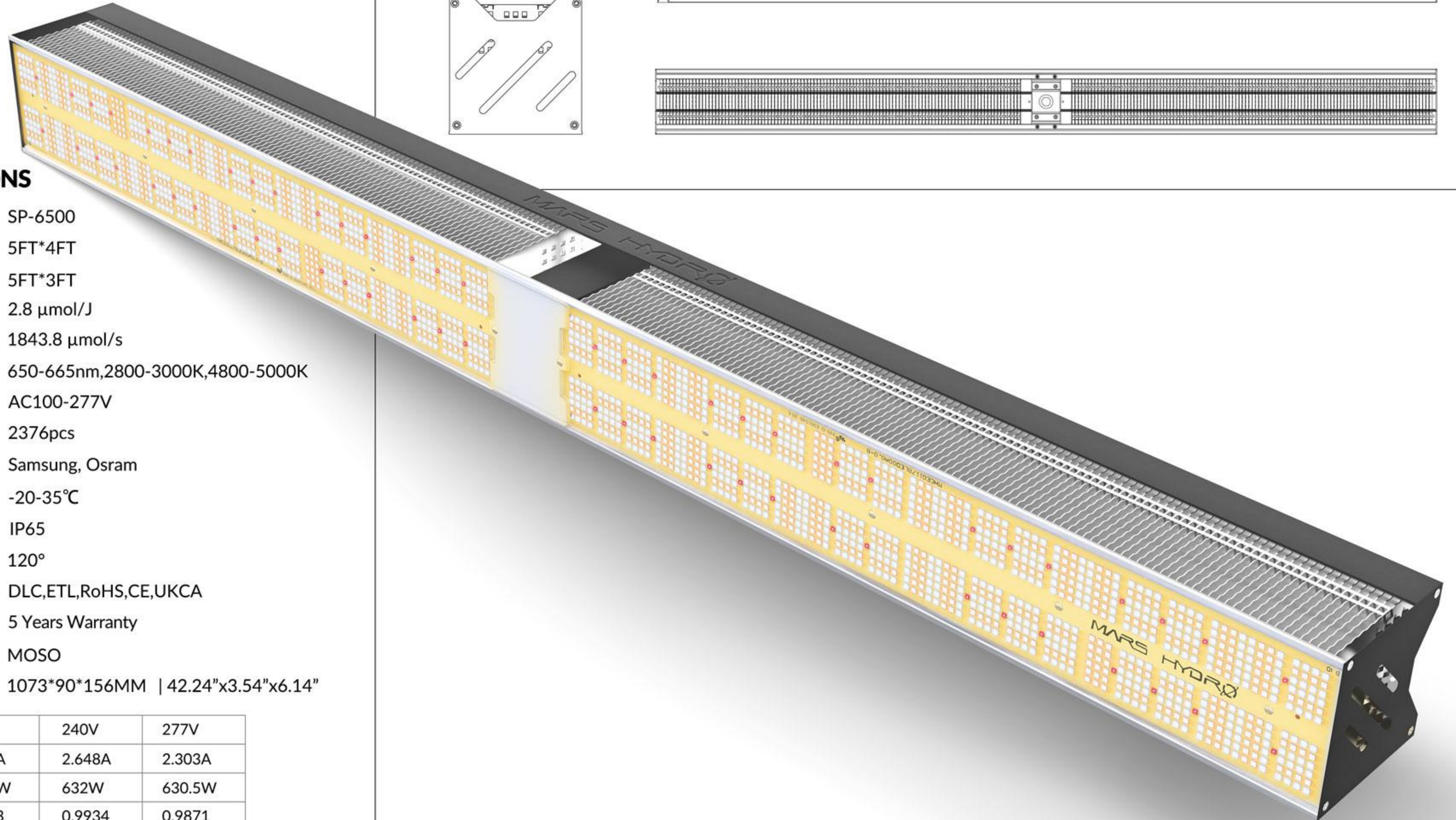


### At Height of 24" / Veg





# SP 6500



## SPECIFICATIONS

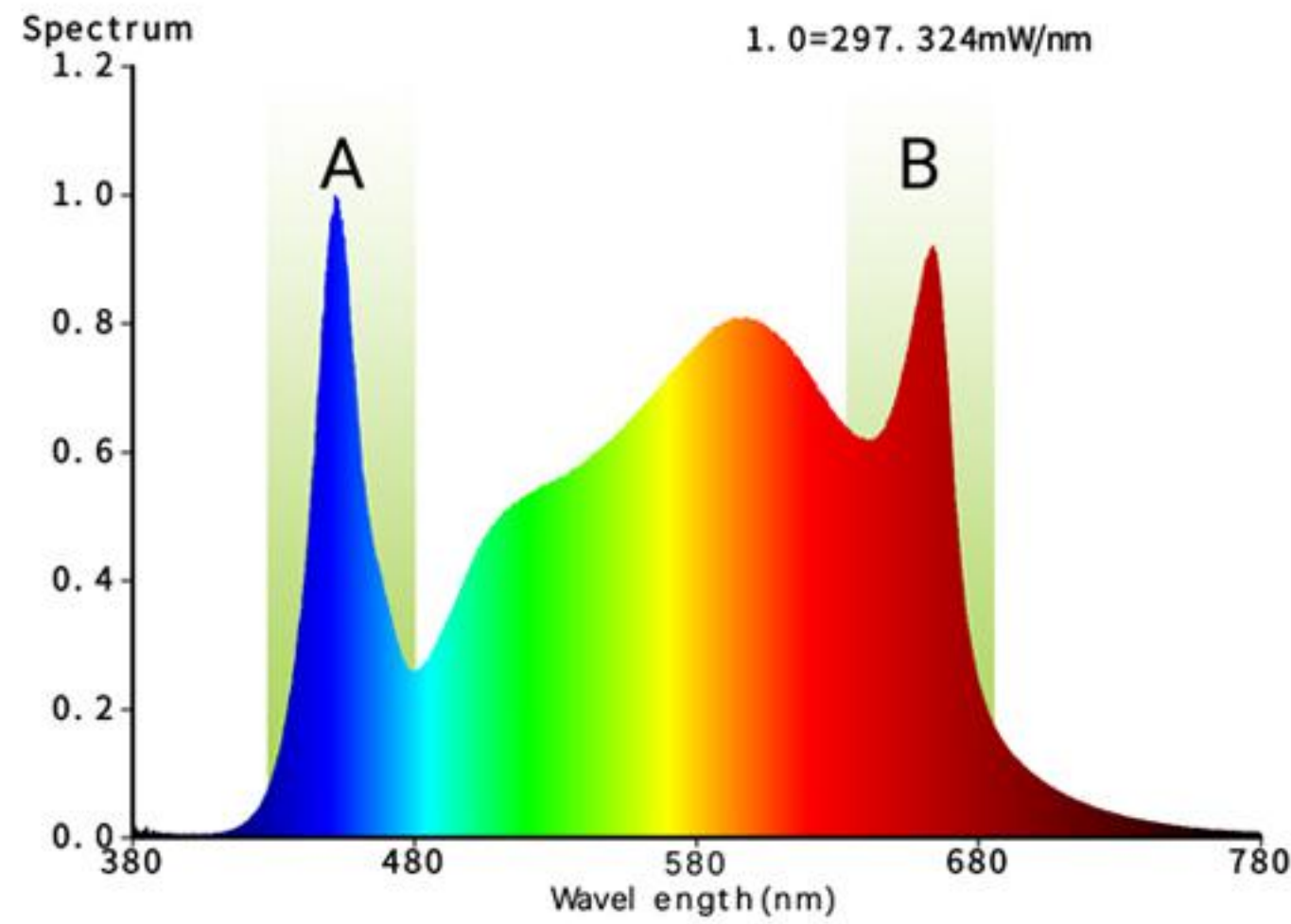
Model:	SP-6500
Veg Coverage:	5FT*4FT
Flower Coverage:	5FT*3FT
PPE:	2.8 $\mu\text{mol}/\text{J}$
Par Value:	1843.8 $\mu\text{mol}/\text{s}$
Spectrum:	650-665nm,2800-3000K,4800-5000K
Input Voltag:	AC100-277V
LED quantity:	2376pcs
Light Source:	Samsung, Osram
Work temperature:	-20-35 $^{\circ}\text{C}$
IP Rating:	IP65
Light Distribution:	120 $^{\circ}$
Certifications:	DLC,ETL,RoHS,CE,UKCA
Warranty:	5 Years Warranty
Power supply:	MOSO
Light Size:	1073*90*156MM   42.24"x3.54"x6.14"

AC VOLTAGE	120V	240V	277V
AC Current	5.432A	2.648A	2.303A
AC Power	658.5W	632W	630.5W
Power Factor	0.9993	0.9934	0.9871



# PAR OUTPUT OF MARS SP 6500

## SPECTRUM GRAPH



## SP 6500

**SAMSUNG** **OSRAM** **DIODES INCREASE CROP YIELDS BY UP TO 50%**

Warm White Light (3000K): Boosts plants blooms Red Light (660nm): Speed plants germination

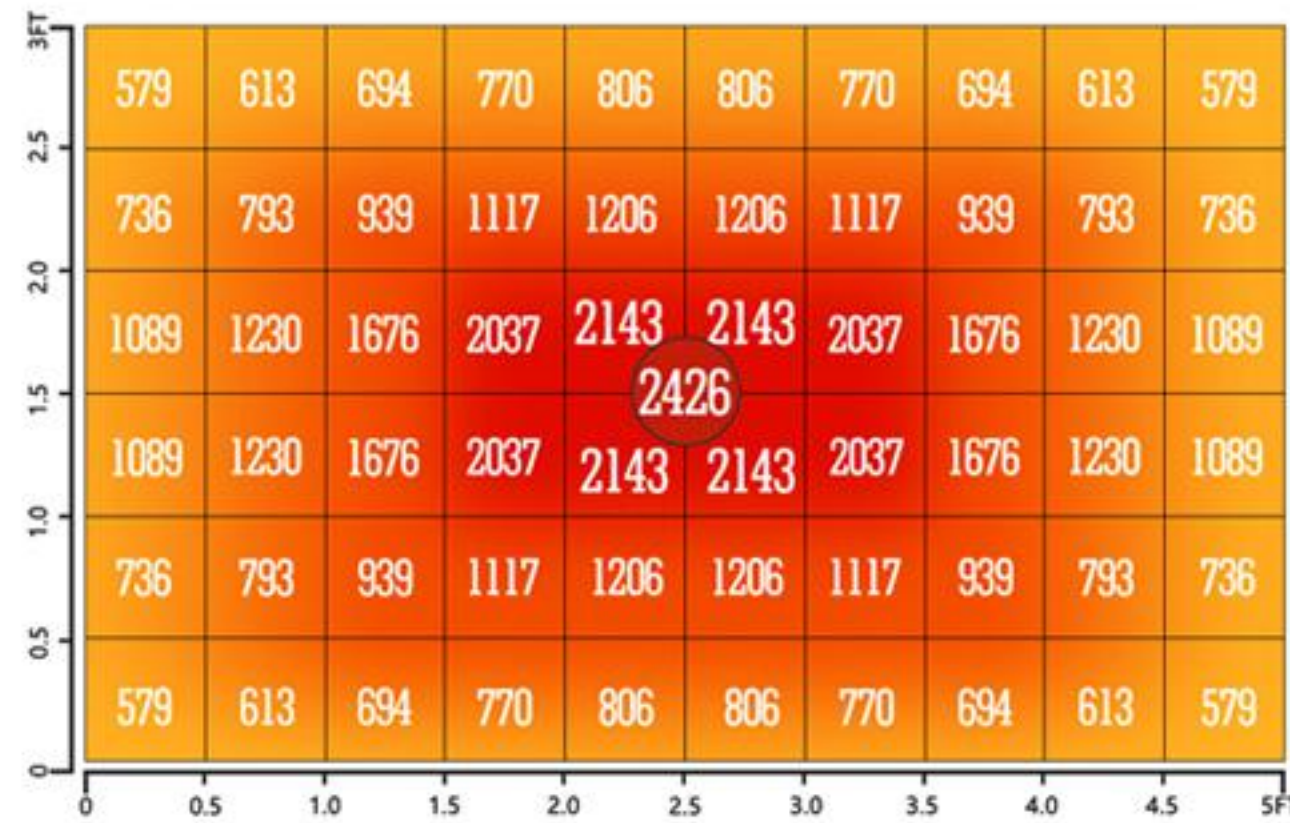
White Light (5000K): Promotes plants germination

**A** Enhanced Blue Spectrum: Promote veg, accelerate growth

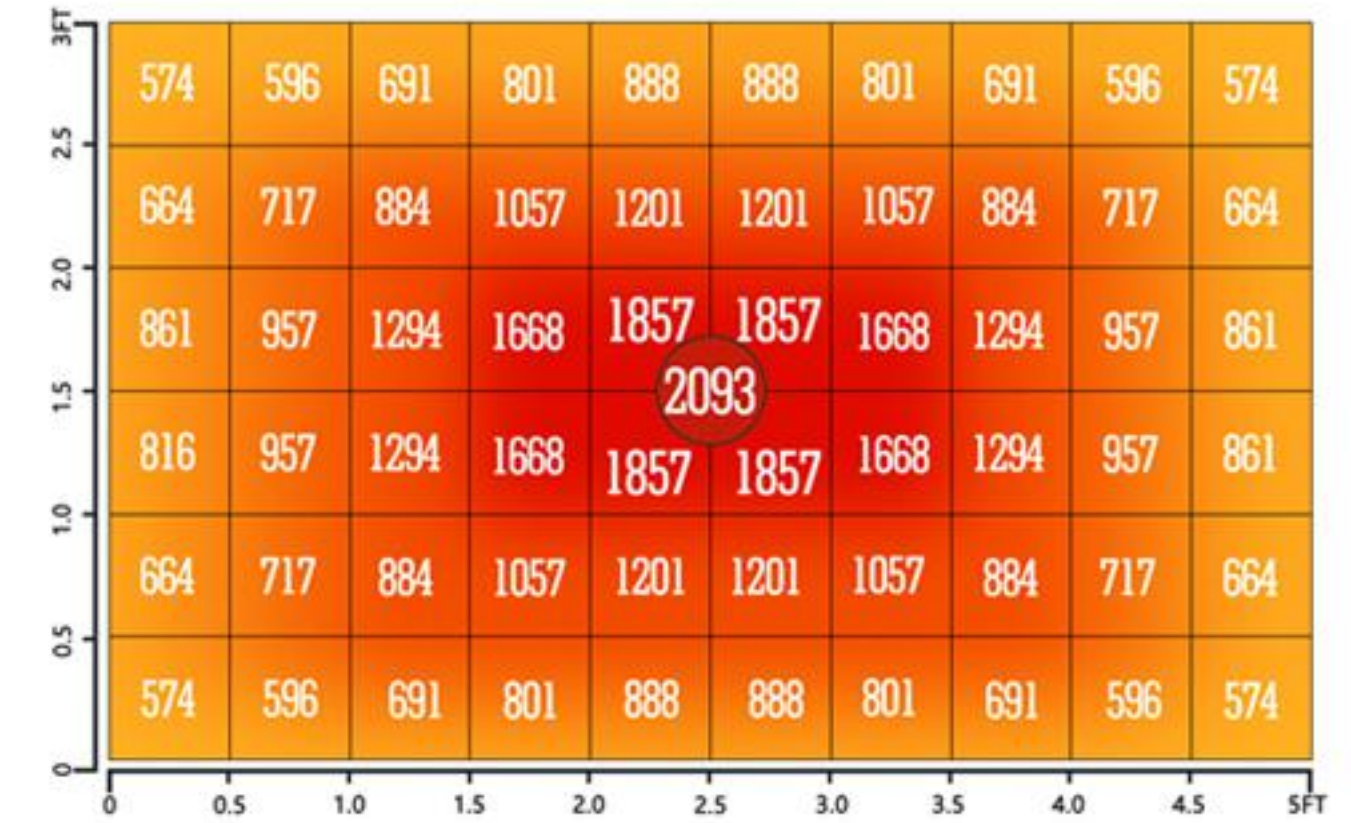
**B** Rich Red Spectrum: Boost crop yield & quality

## Tested at Coverage 5ft x 3ft

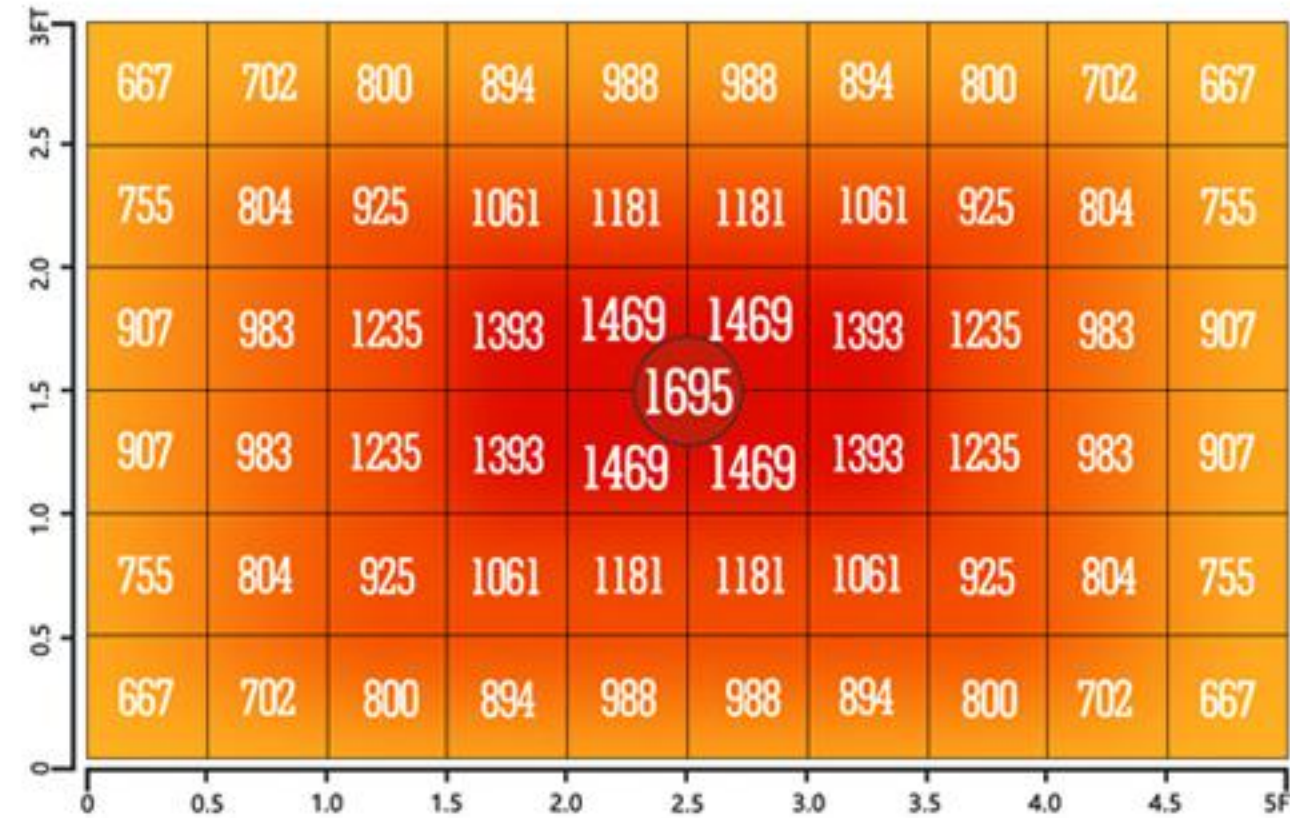
### At Height of 16" / Bloom



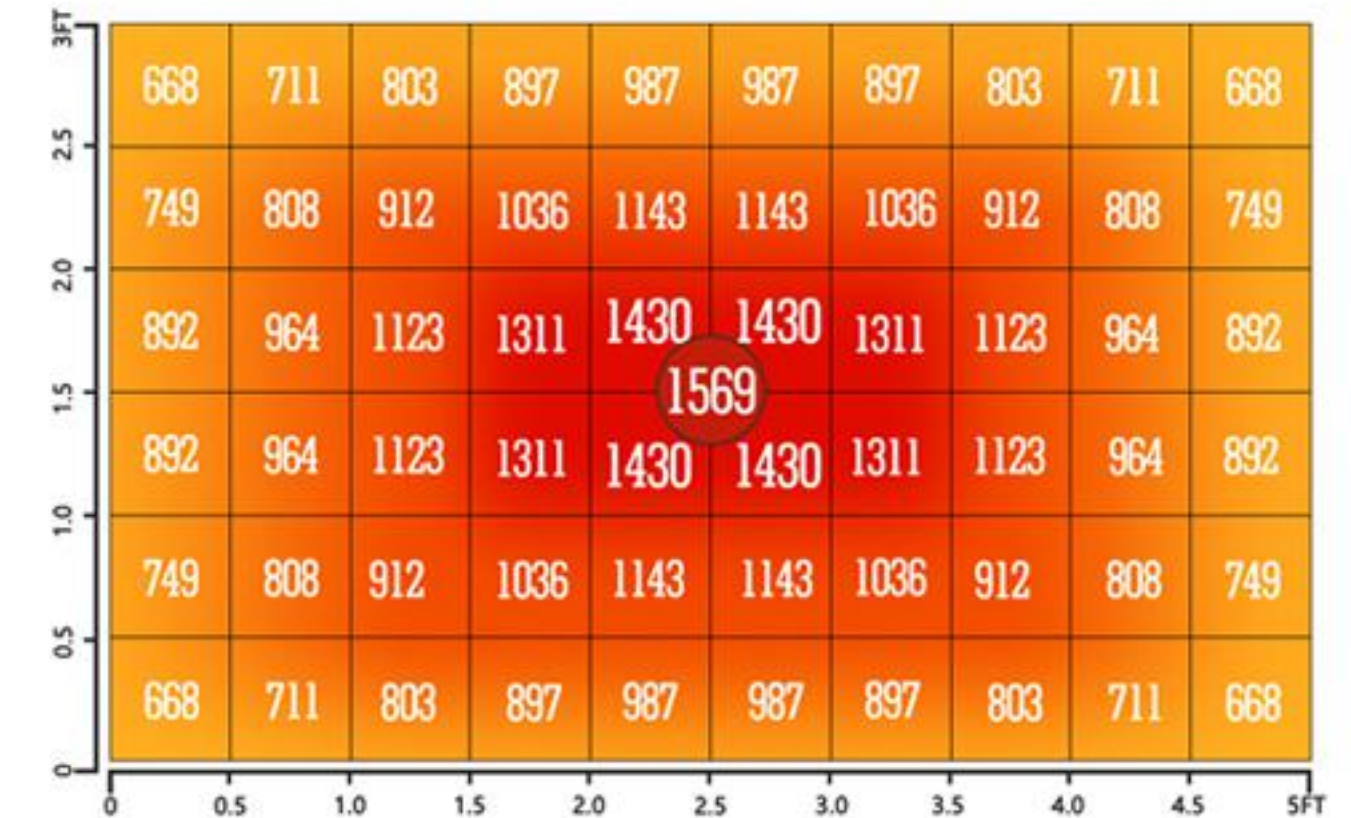
### At Height of 18" / Bloom



### At Height of 22" / Veg or Bloom



### At Height of 24" / Veg





# FC series

+

## VERTICAL FARM

The Mars Hydro FC series is specifically designed for single or multi-tier growers and commercial greenhouses. With Samsung 3000K - 5000K and Osram 660nm led diodes, the FC series light boasts an incredible  $2.8 \mu\text{mol}/\text{J}$  efficiency and a max yield of 2.5 g/per watt, increasing your yield 50% or more with a 30% higher average PPFD. Ensures that seedlings, vegetables, and flowering plants all get the specific intensity of light required. Low power consumption and high energy efficiency, higher yields than other brands of LED grow lights. Just enjoy the bumper harvest.



## INDOOR





# FC Series

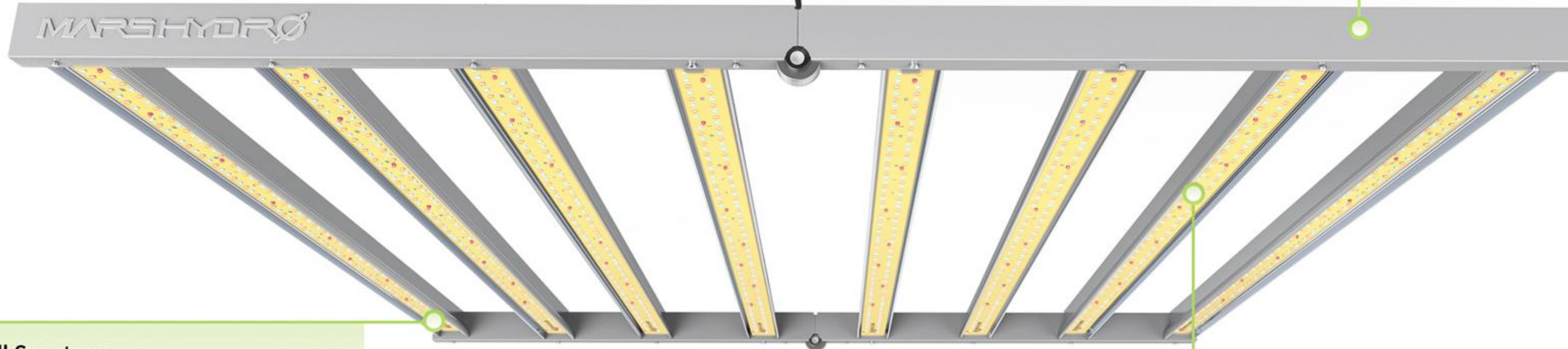
- **Dimmable & Multi-Connect Function**

The added dimmer knob makes it easier to adjust the brightness. Up to 20 lights can be daisy-chained and controlled together by the master light.



- **No fan design, no noise**

The aluminum heatsink allows for optimal heat dissipation. The removable driver and 2m extended cord helps to lower the growing room temperature. IP65 waterproof ratings, worry-free in high humidity growing environments.



- **Upgraded Full Spectrum**

Top Samsung 3000 K - 5000 K, and additional Osram 660nm speeds up blooming & fruiting, suitable for full-cycle growing. The FC LED grow light is born for big buds, suitable for commercial, home, grow tents or grow rooms as well as, hydroponic or soil growing.

- **Increased Yield & Crop Quality**

With Samsung and Osram led chips, the FC series light boasts an incredible efficiency of 2.8  $\mu\text{mol}/\text{J}$  and a max of 2.5g yield per watt, increasing your yield by 50% or more compared with old blue and HPS lights.

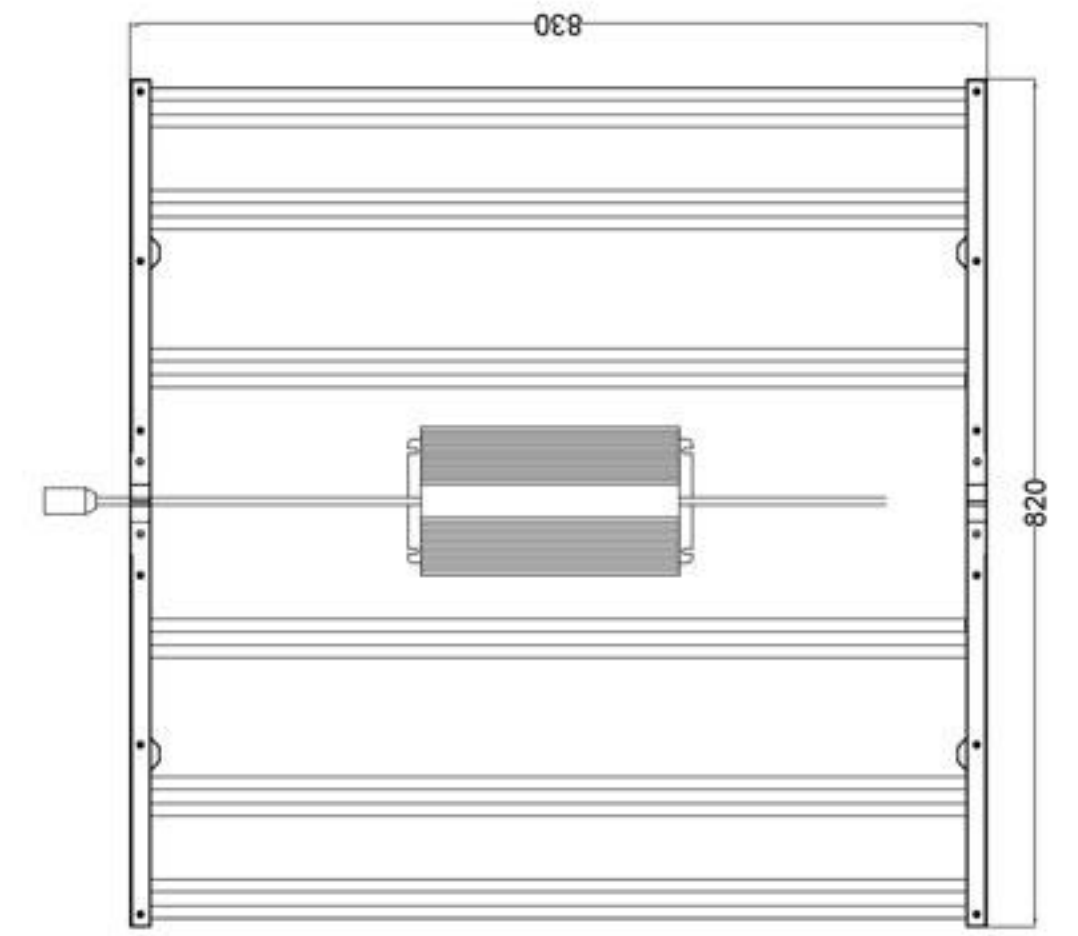
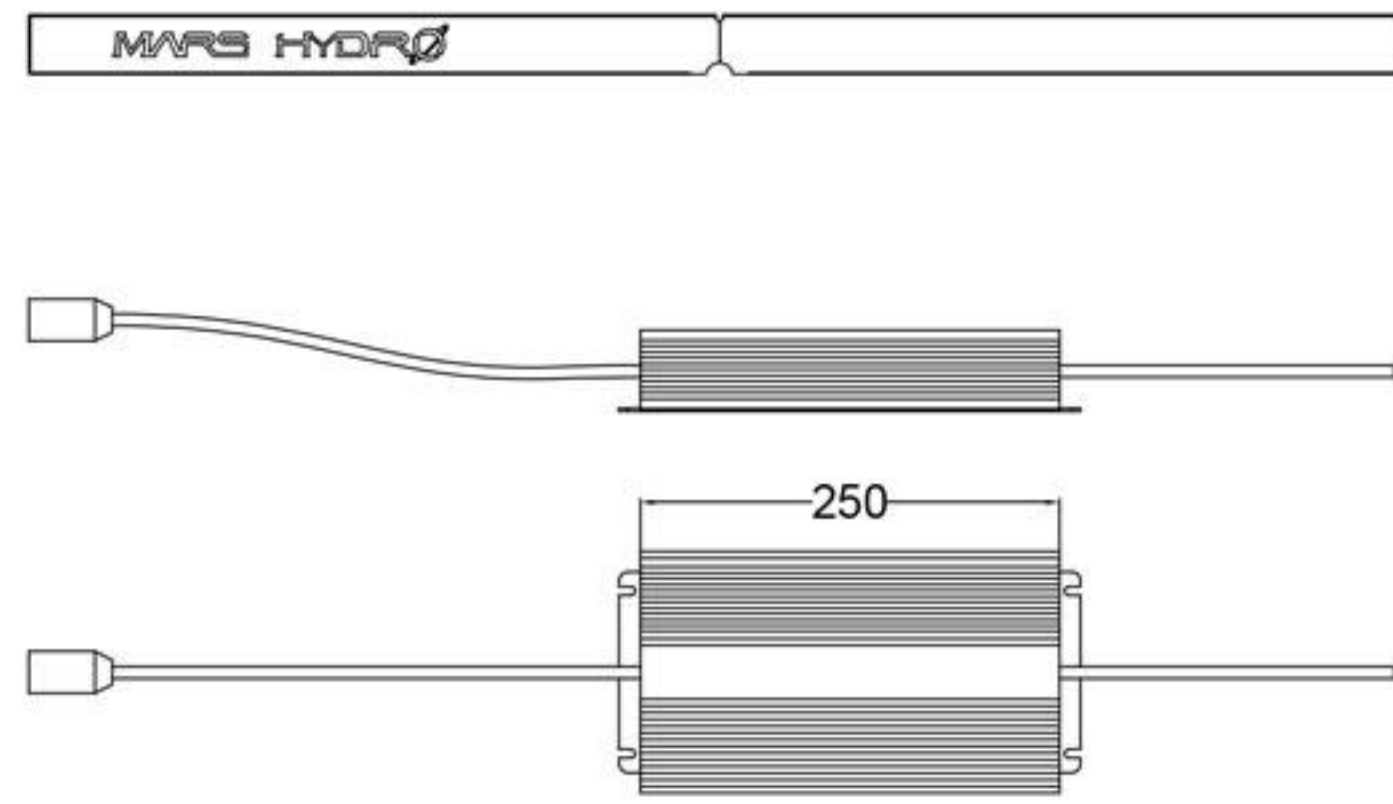


# FC 4800

## SPECIFICATIONS

Model:	FC-4800
Veg Coverage:	4FT*4FT
Flower Coverage:	3FT*3FT
PPE:	2.8 $\mu\text{mol}/\text{J}$
Par Value:	1386 $\mu\text{mol}/\text{s}$
Spectrum:	380-410nm,650-665nm,730-740nm, 2800-3000K,4800-5000K
Input Voltag:	AC100-277V
LED quantity:	2016pcs
Light Source:	Samsung, Osram, UV, IR
Work temperature:	-20-35°C
IP Rating:	IP65
Light Distribution:	120°
Certifications:	DLC,ETL,RoHS,CE,UKCA
Warranty:	5 Years Warranty
Power supply:	MOSO
Light Size:	830*820*100.5MM 32.68"x32.28"x3.96"

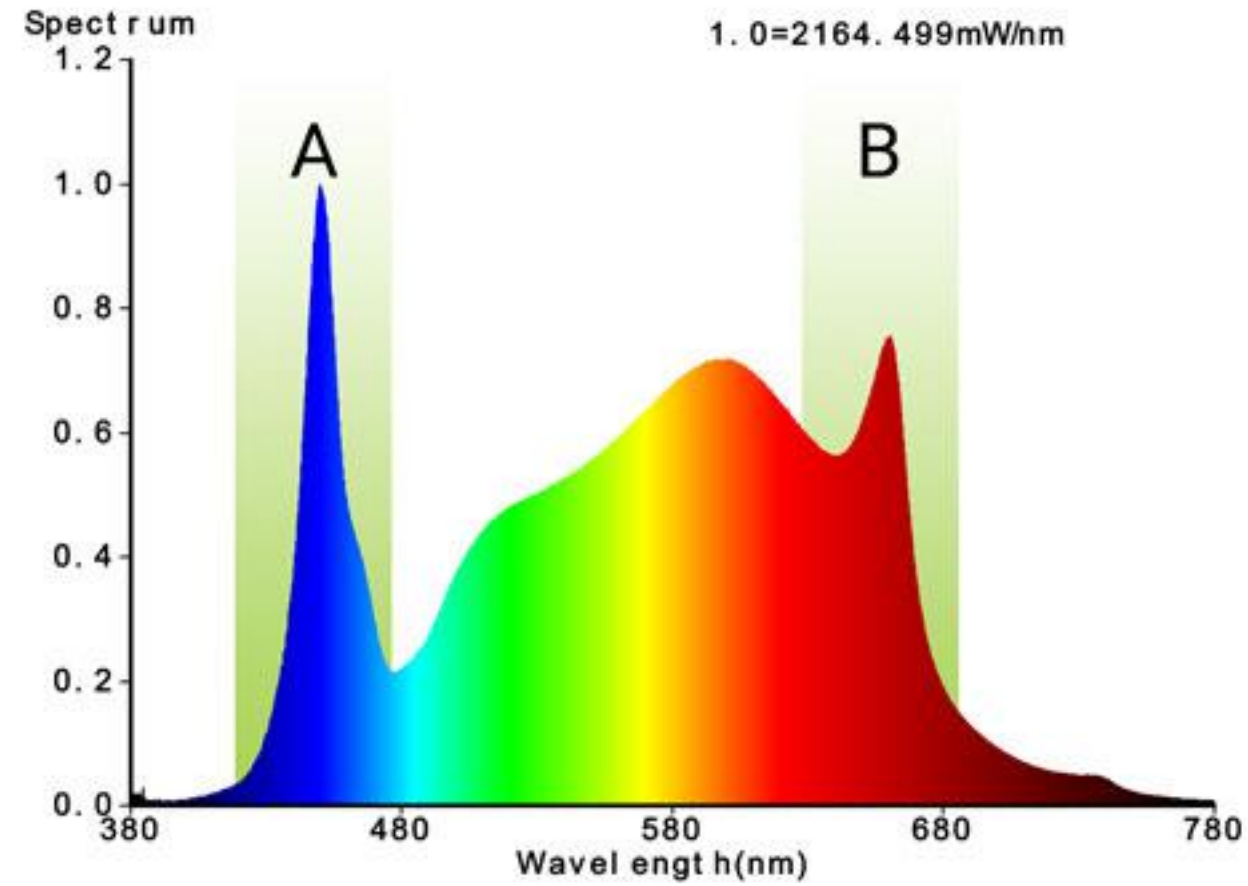
AC VOLTAGE	120V	240V	277V
AC Current	3.972A	1.939A	1.695A
AC Power	482.6W	461.7W	459.1W
Power Factor	0.9988	0.9913	0.9763





# PAR OUTPUT OF MARS FC 4800

## SPECTRUM GRAPH



## FC 4800

**SAMSUNG**

**OSRAM**

DIODES  
INCREASE CROP YIELDS  
BY UP TO 50%

Warm White Light (3000K):  
Boosts plants blooms

Red Light (660nm):  
Speed plants germination

White Light (5000K):  
Promotes plants germination

IR Light (730nm):  
Good for flower  
(dimmer than red ones)

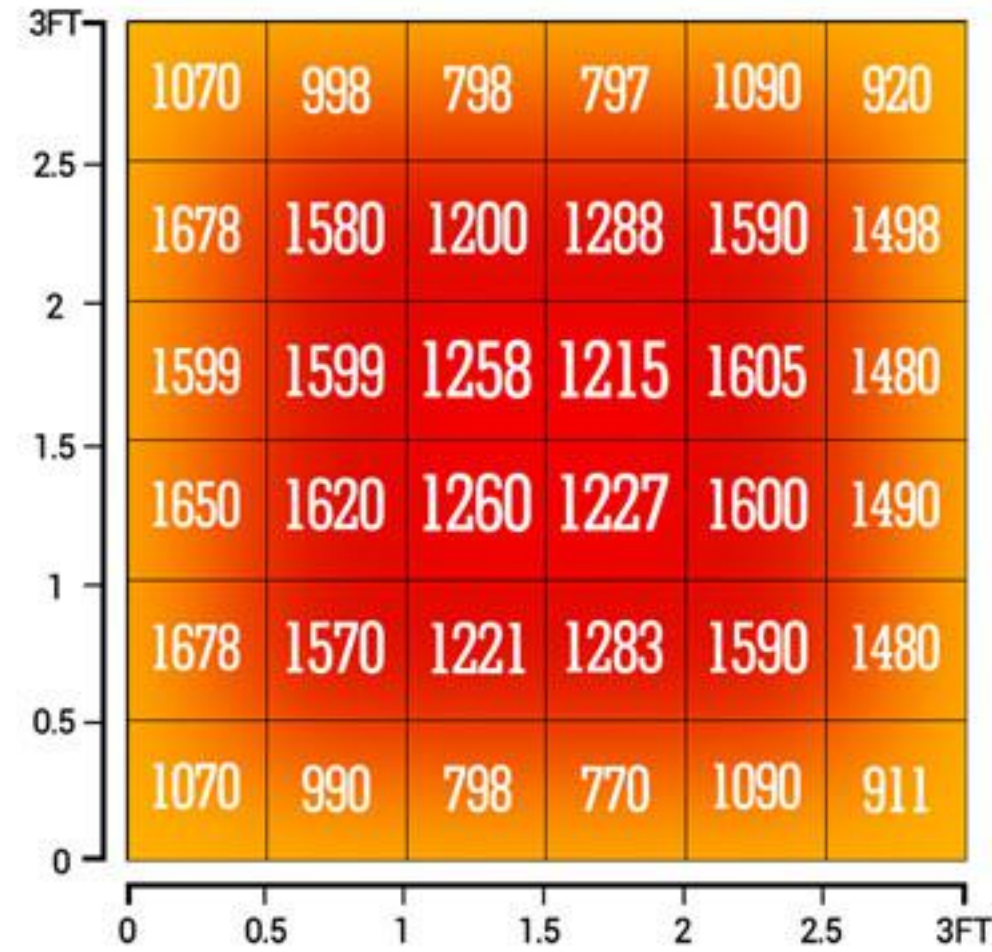
UV light (260-400nm):  
Increase the light lifespan

**A** Enhanced Blue Spectrum:  
Promote veg, accelerate growth

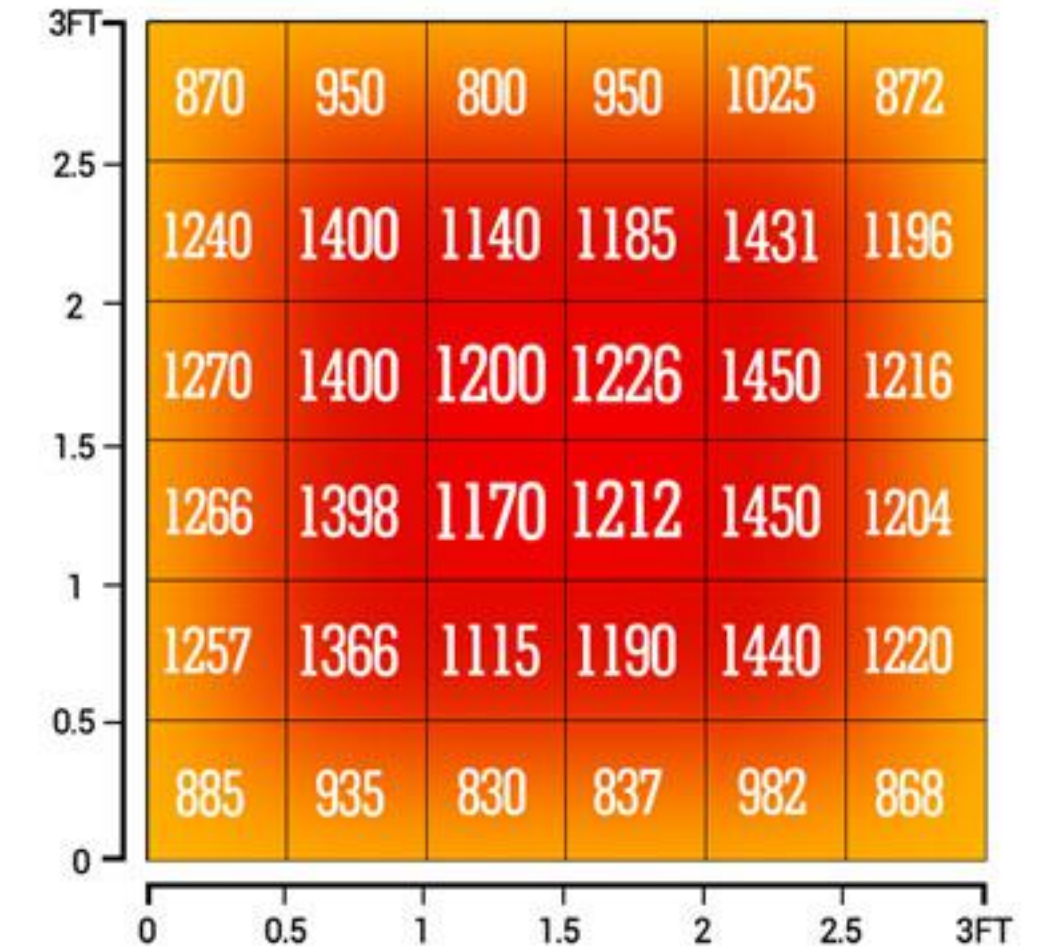
**B** Rich Red Spectrum:  
Boost crop yield & quality

## Tested at Coverage 3ft x 3ft

### At Height of 8" / Bloom

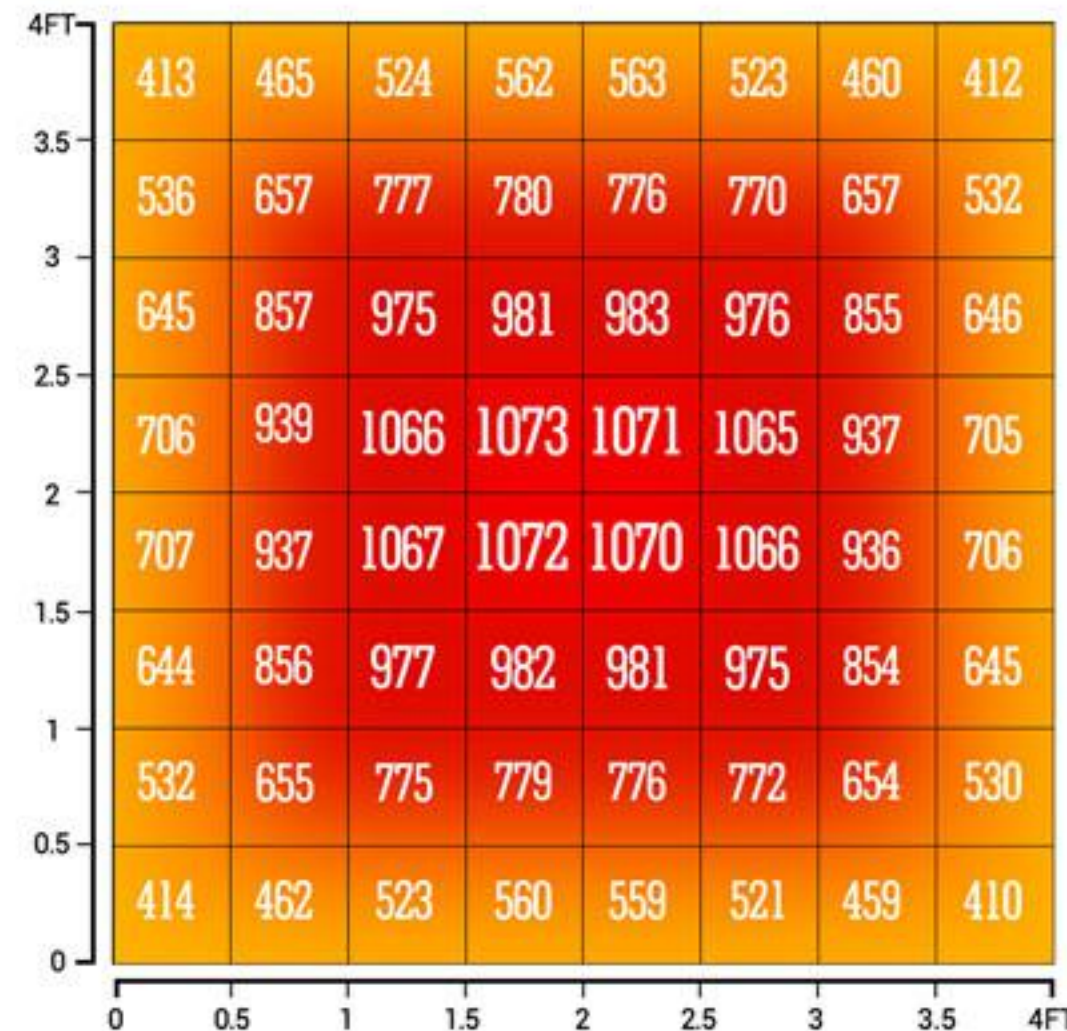


### At Height of 10" / Bloom

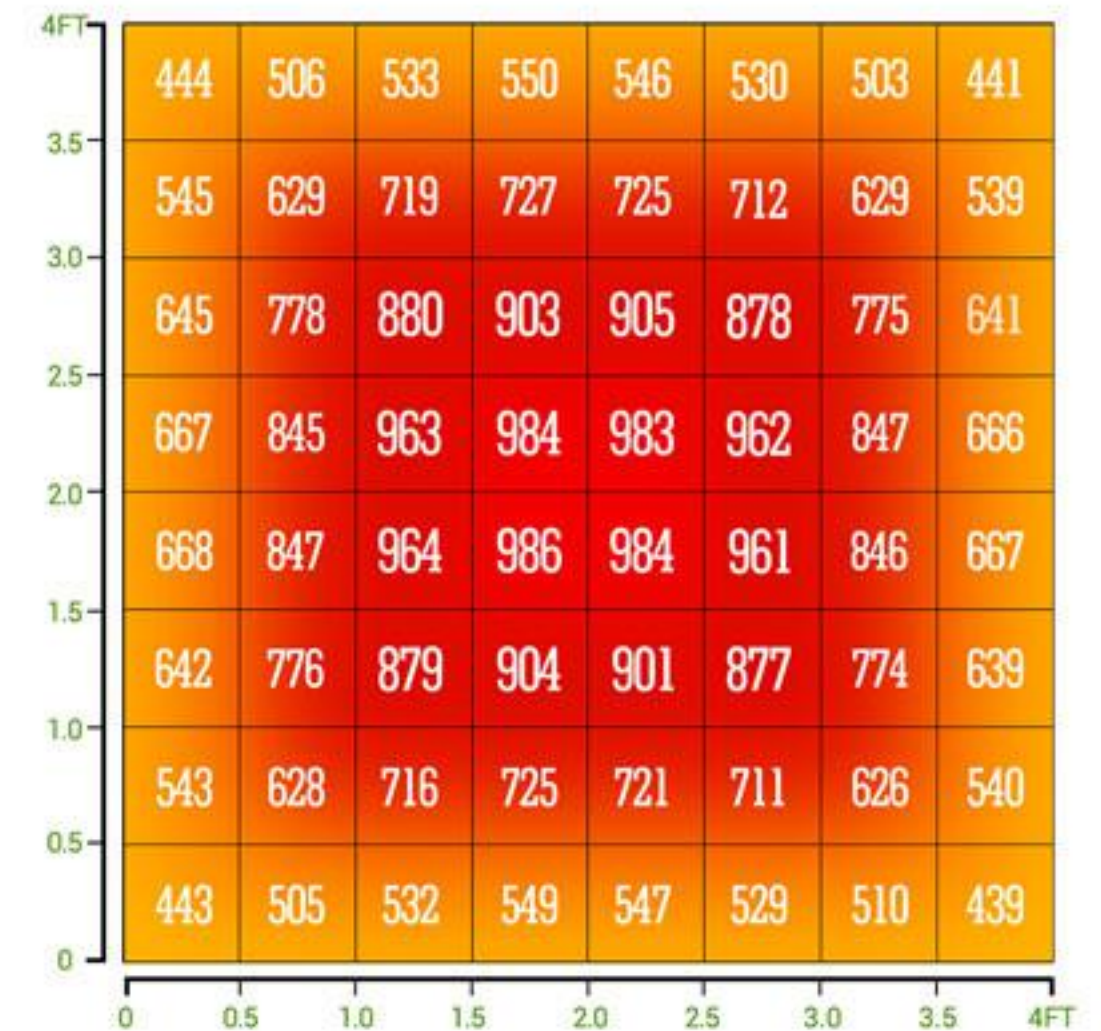


## Tested at Coverage 4ft x 4ft

### At Height of 16" / Veg

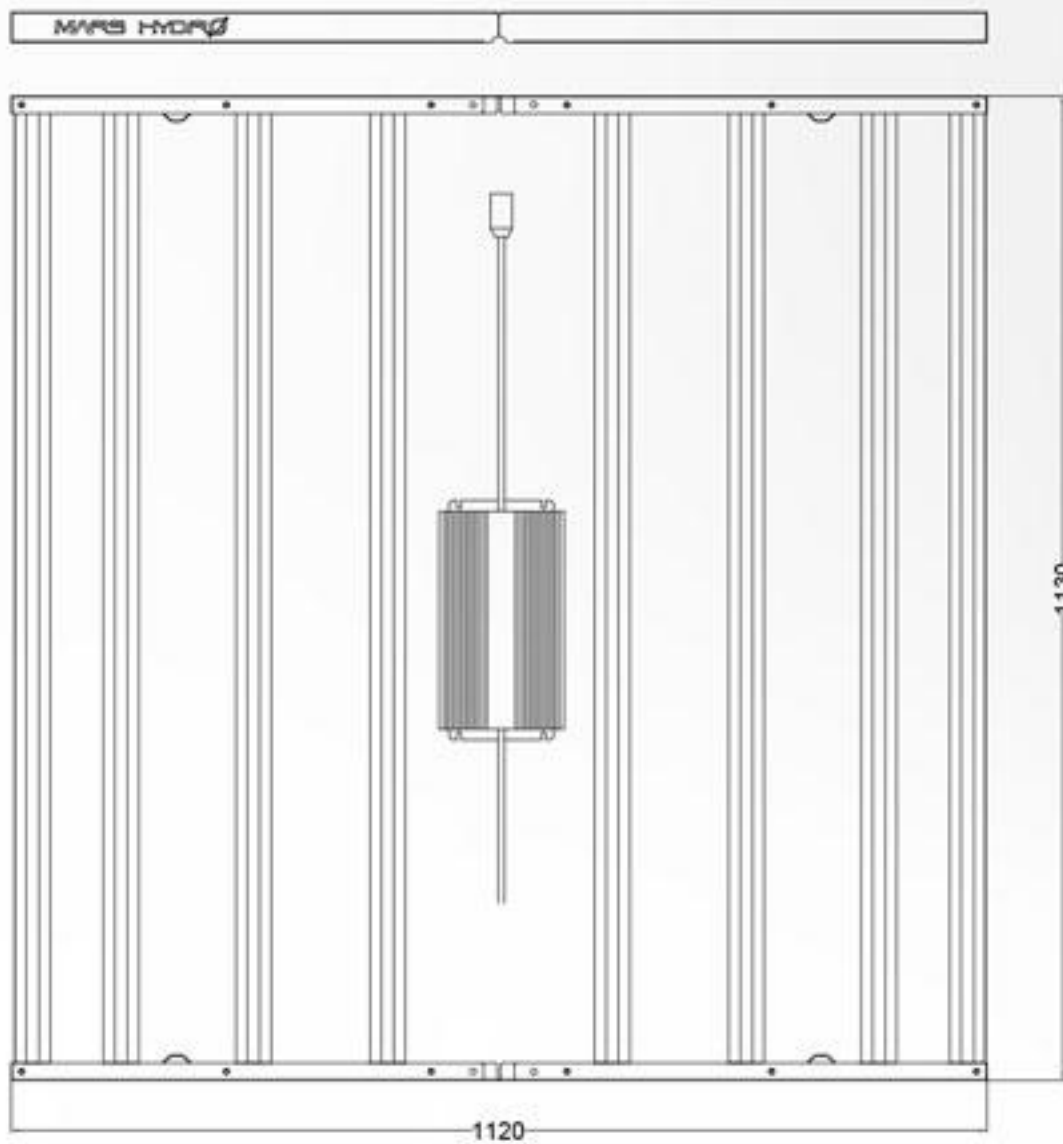
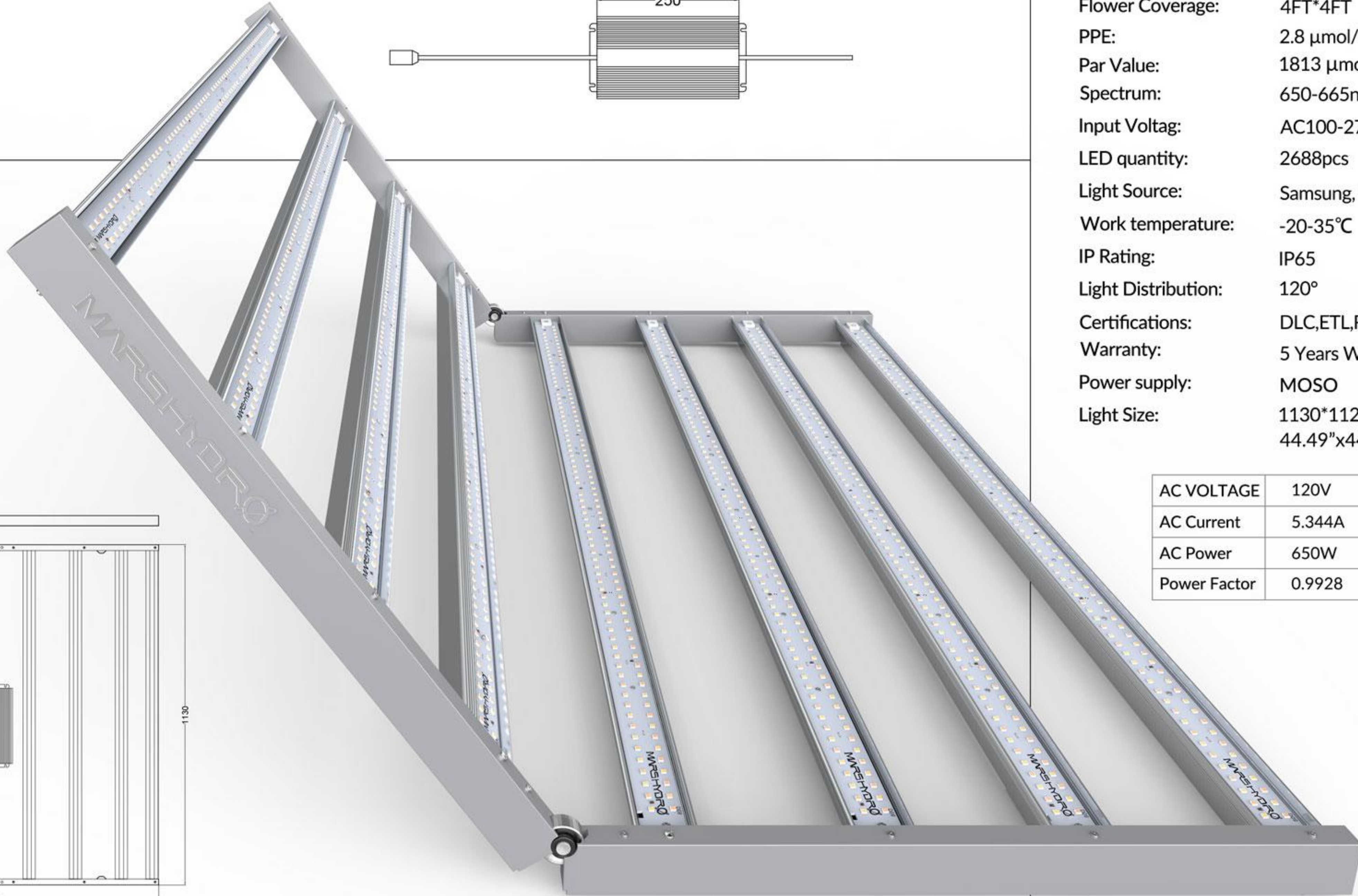
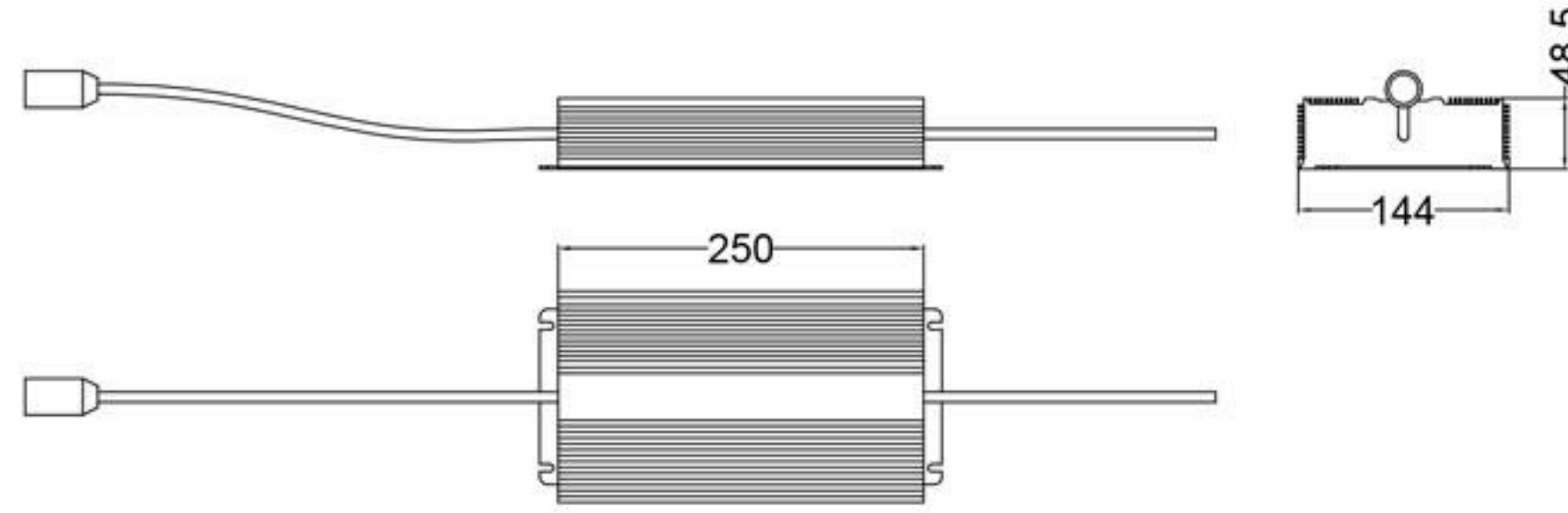


### At Height of 18" / Veg





# FC 6500



## SPECIFICATIONS

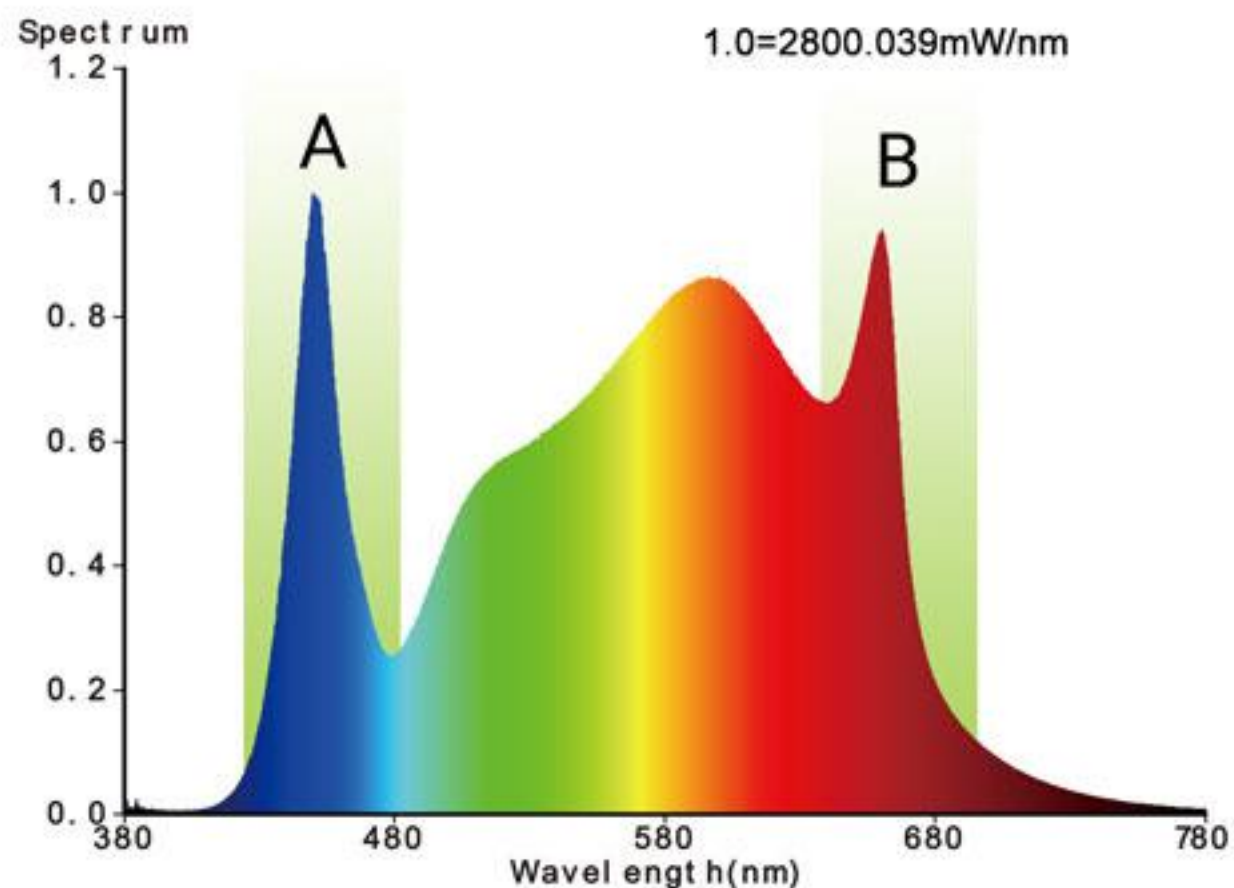
Model:	FC-6500
Veg Coverage:	5FT*5FT
Flower Coverage:	4FT*4FT
PPE:	2.8 $\mu\text{mol}/\text{J}$
Par Value:	1813 $\mu\text{mol}/\text{s}$
Spectrum:	650-665nm, 2800-3000K, 4800-5000K
Input Voltag:	AC100-277V
LED quantity:	2688pcs
Light Source:	Samsung, Osram
Work temperature:	-20-35°C
IP Rating:	IP65
Light Distribution:	120°
Certifications:	DLC, ETL, RoHS, CE, UKCA
Warranty:	5 Years Warranty
Power supply:	MOSO
Light Size:	1130*1120*105.5MM 44.49"x44.09"x4.15"

AC VOLTAGE	120V	240V	277V
AC Current	5.344A	2.648A	2.310A
AC Power	650W	638W	635.6W
Power Factor	0.9928	0.9672	0.9763



# PAR OUTPUT OF MARS FC 6500

## SPECTRUM GRAPH



## FC 6500

**SAMSUNG** **OSRAM** DIODES INCREASE CROP YIELDS BY UP TO 50%

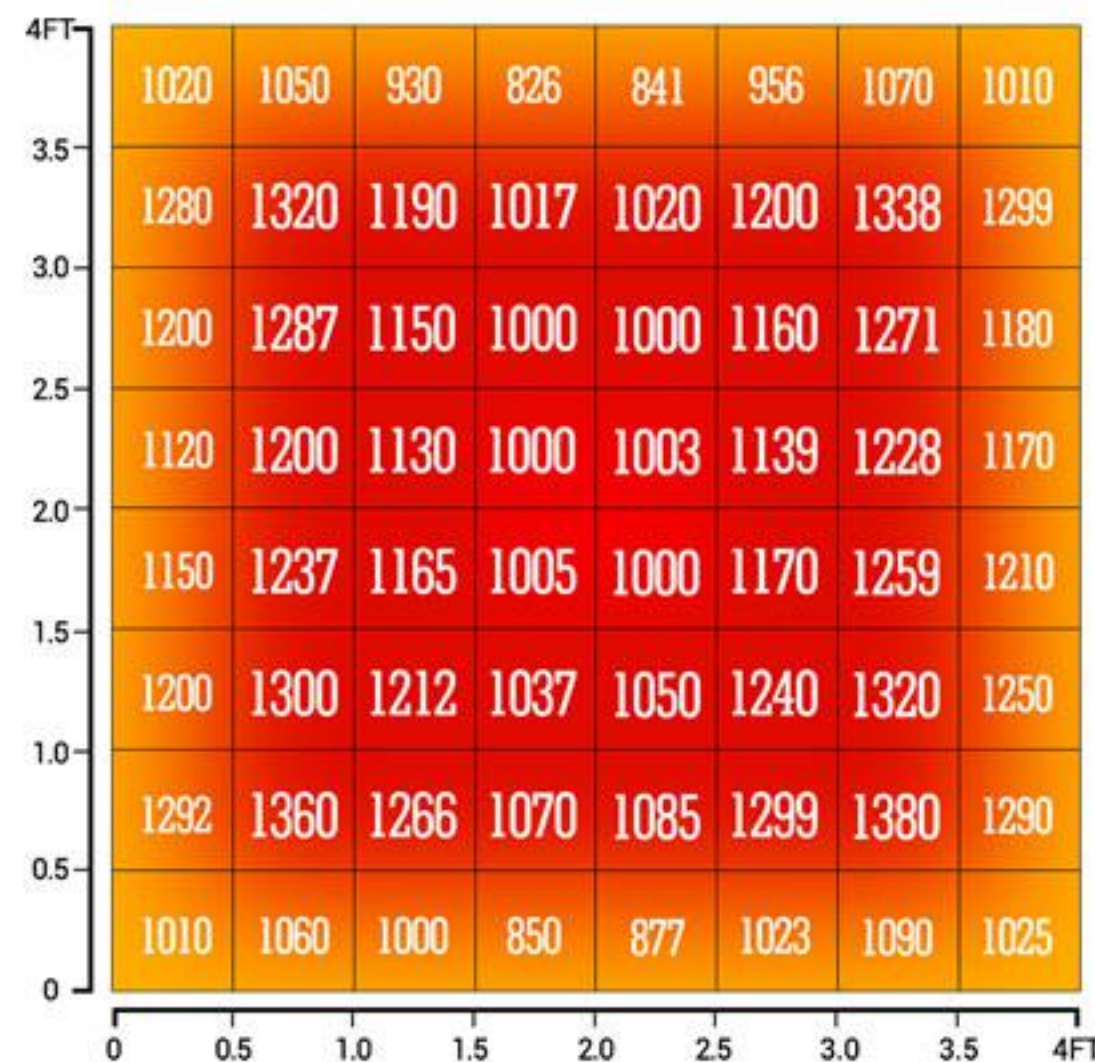
- Warm White Light (3000K): Boosts plants blooms
- Red Light (660nm): Speed plants germination
- White Light (5000K): Promotes plants germination

**A** Enhanced Blue Spectrum:  
Promote veg, accelerate growth

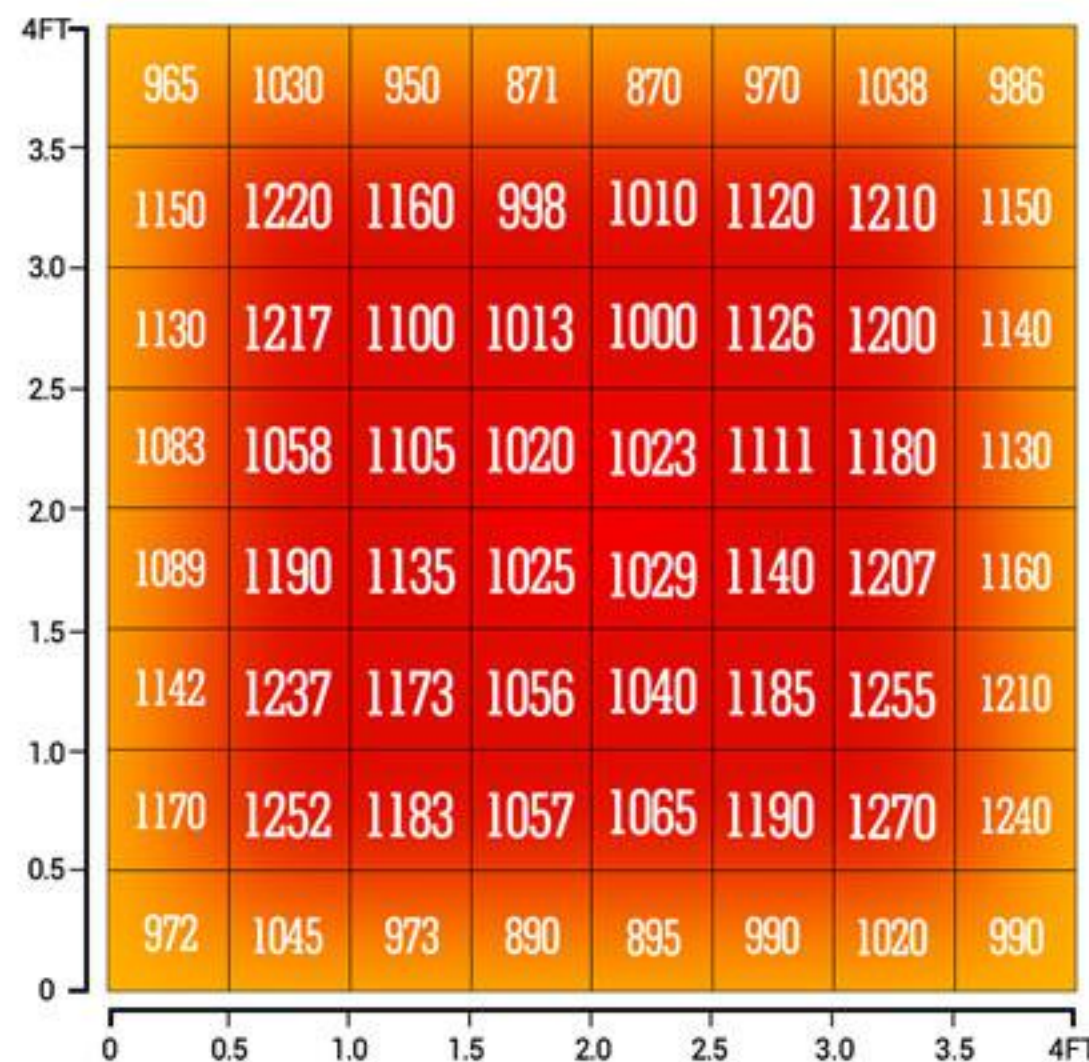
**B** Rich Red Spectrum:  
Boost crop yield & quality

## Tested at Coverage 4ft x 4ft

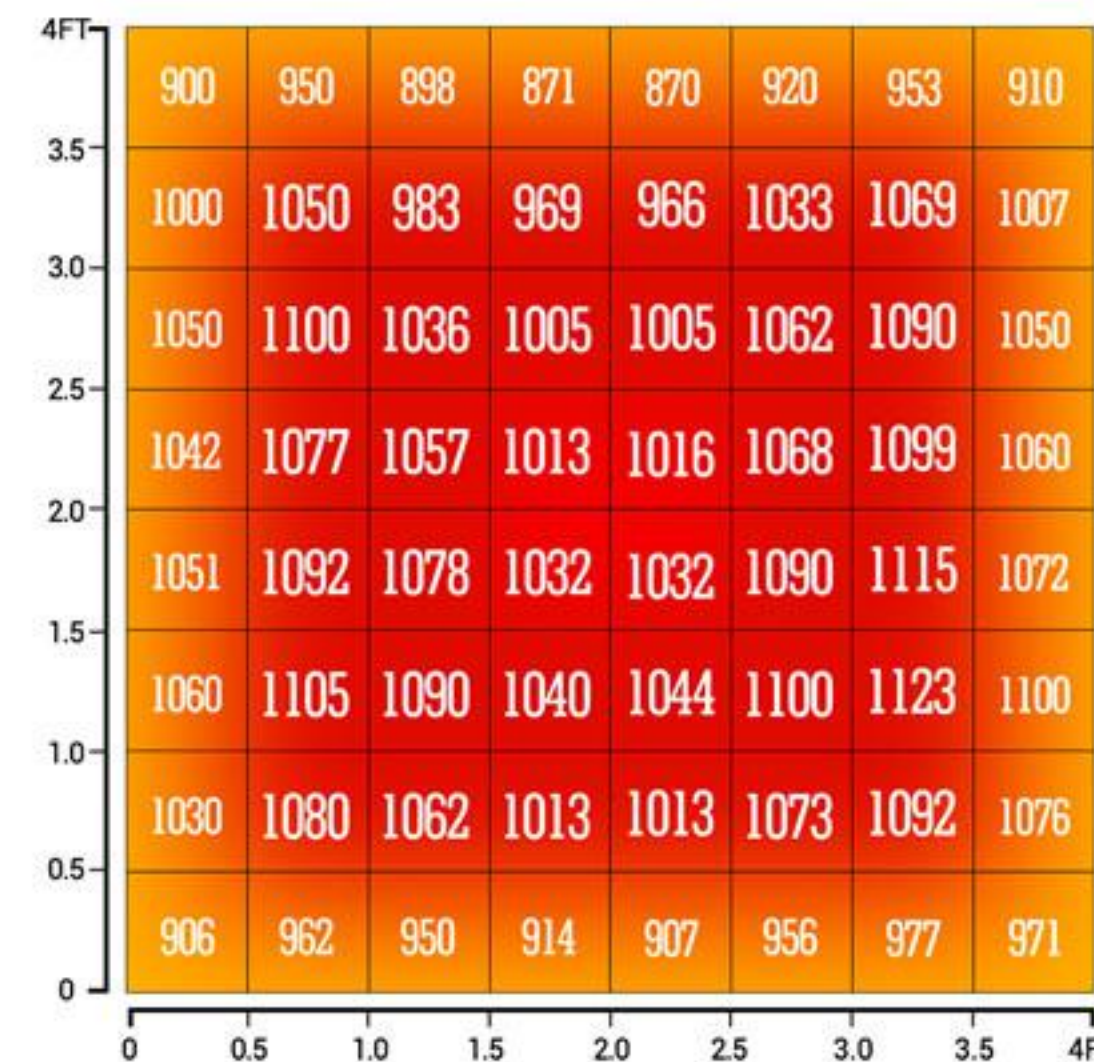
At Height of 10" / Bloom



At Height of 12" / Veg or Bloom



At Height of 16" / Veg





# FC-E Series

- **New detachable design**

Not only the driver is removable, but also the light bars, which makes it easy to install, store, and replace the light bars. Meanwhile, cultivators can freely adjust the light bar space according to your growing needs in order to maximize light utilization.

- **Daisy Chain Dimming Function**

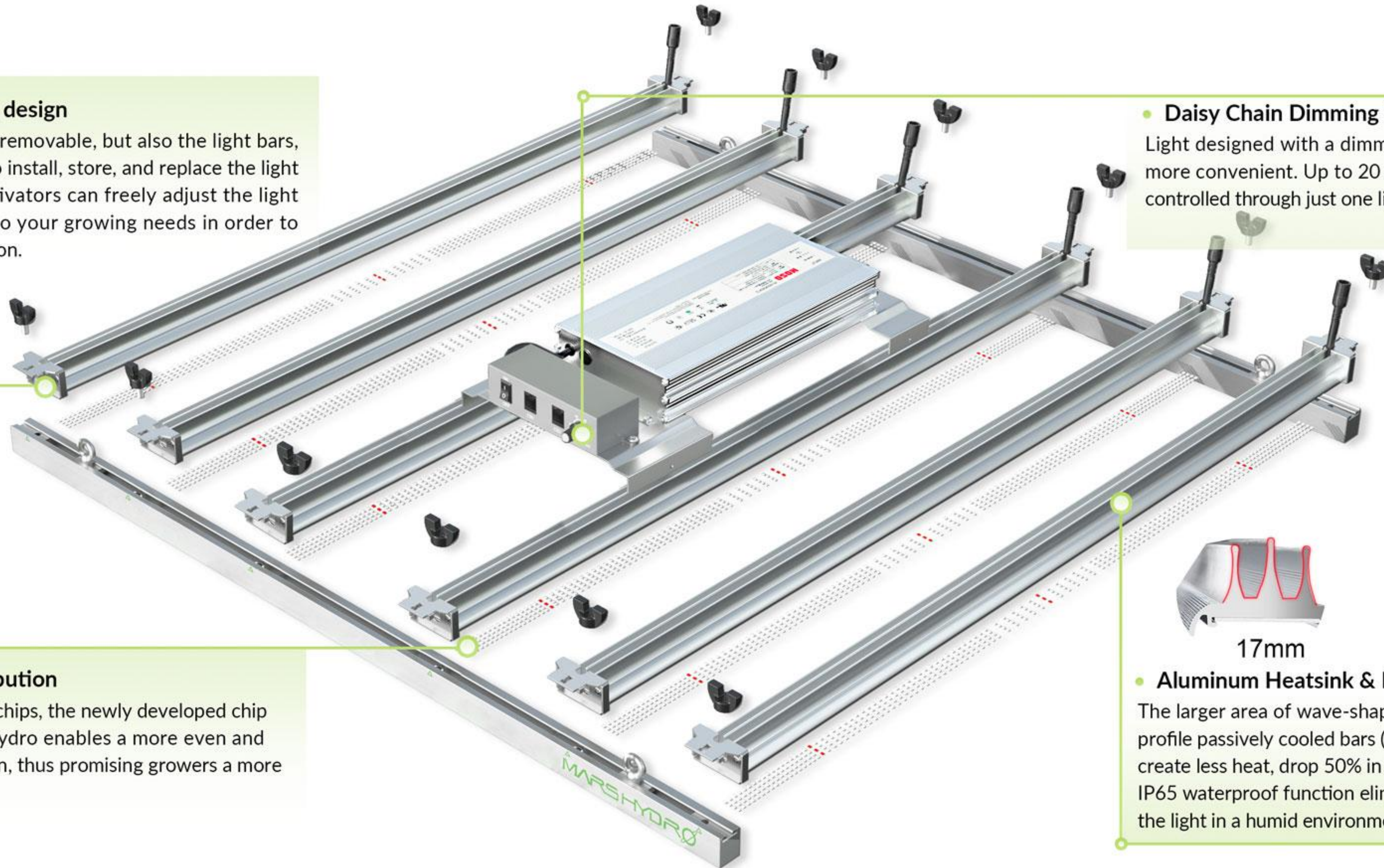
Light designed with a dimmer knob which makes dimming more convenient. Up to 20 lights can be daisy-chained and controlled through just one light.

- **Uniform Par distribution**

High-quality BridgeLux chips, the newly developed chip arrangement by Mars Hydro enables a more even and efficient light distribution, thus promising growers a more uniform crop.

- **Aluminum Heatsink & IP65 waterproof**

The larger area of wave-shaped aluminum heatsink & slim profile passively cooled bars (THINNER & LARGER surface) create less heat, drop 50% in electricity bill than HID lights! IP65 waterproof function eliminates the worry about using the light in a humid environment.



17mm

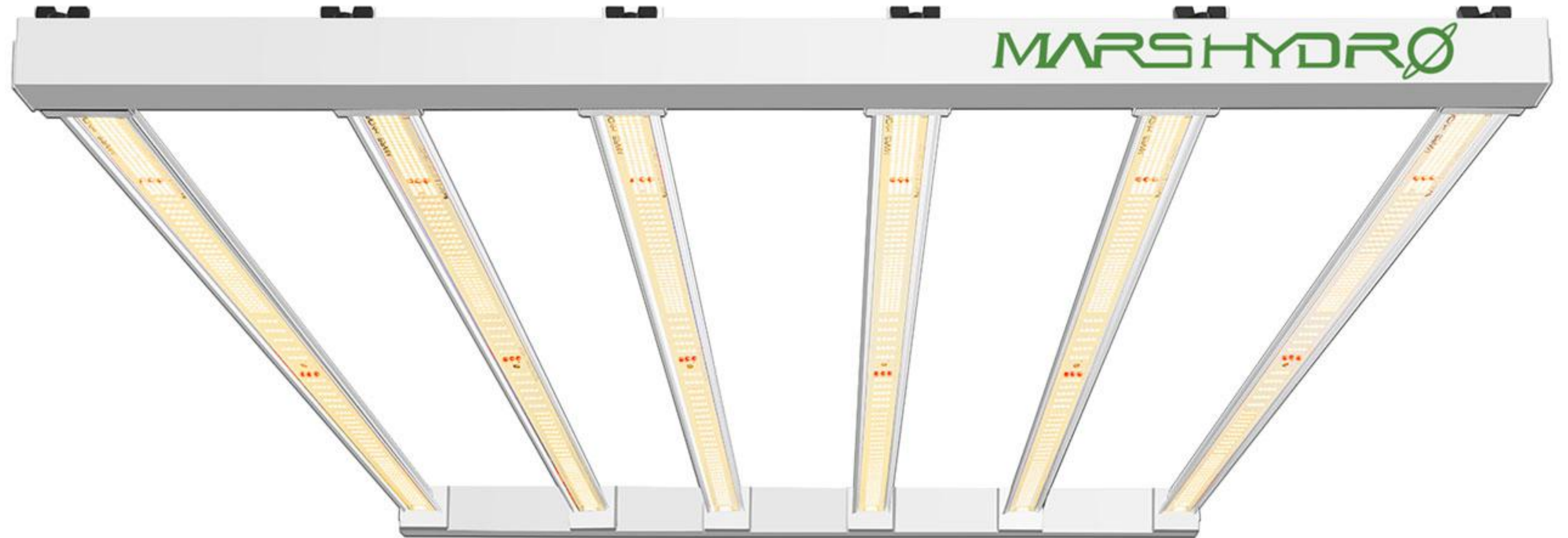
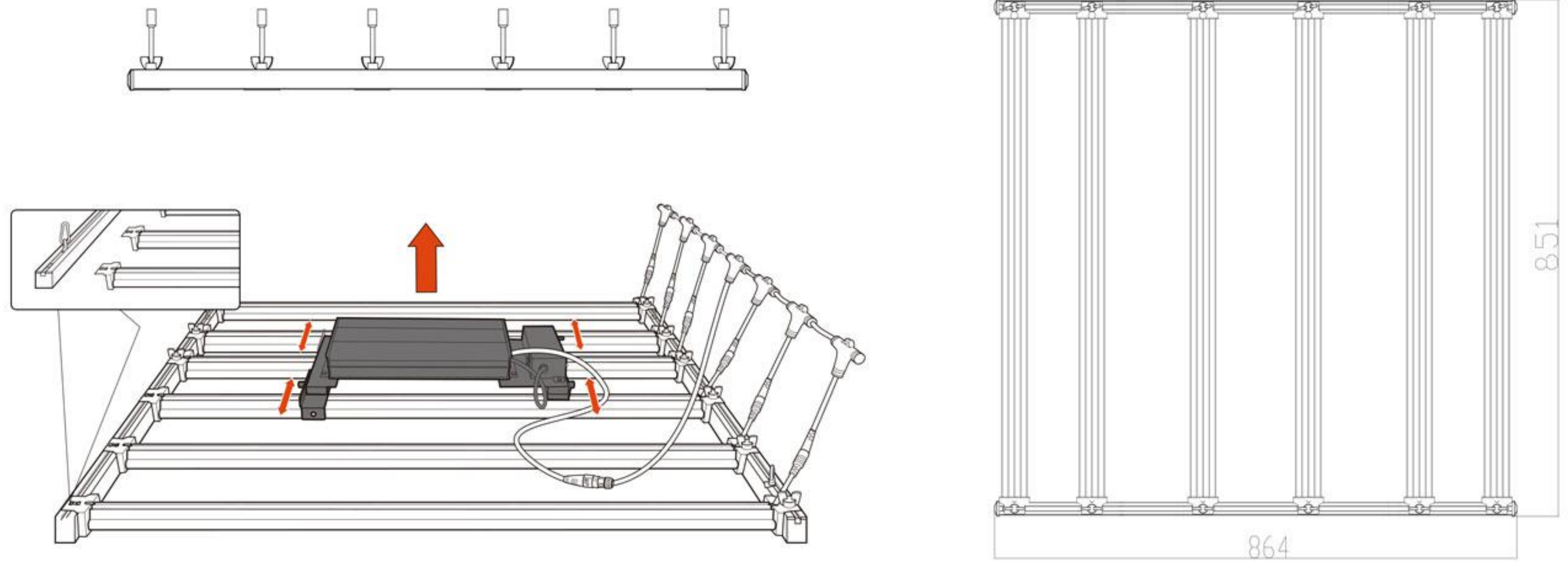


# FC-E4800

## SPECIFICATIONS

Model:	FC-E4800
Veg Coverage:	4FT*4FT
Flower Coverage:	3FT*3FT
PPE:	2.7 $\mu\text{mol}/\text{J}$
Par Value:	1327 $\mu\text{mol}/\text{s}$
Spectrum:	380-410nm,660-665nm,730-740nm, 2800-3000K,4800-5000K
Input Voltage:	AC100-277V
LED quantity:	2646pcs
Light Source:	bridgelux,UV,IR
Work temperature:	-20-35°C
IP Rating:	IP65
Light Distribution:	120°
Certifications:	DLC,ETL,RoHS,CE,UKCA
Warranty:	5 Years Warranty
Power supply:	MOSO
Light Size:	864*851*79MM 34.02"x33.50"x3.11"

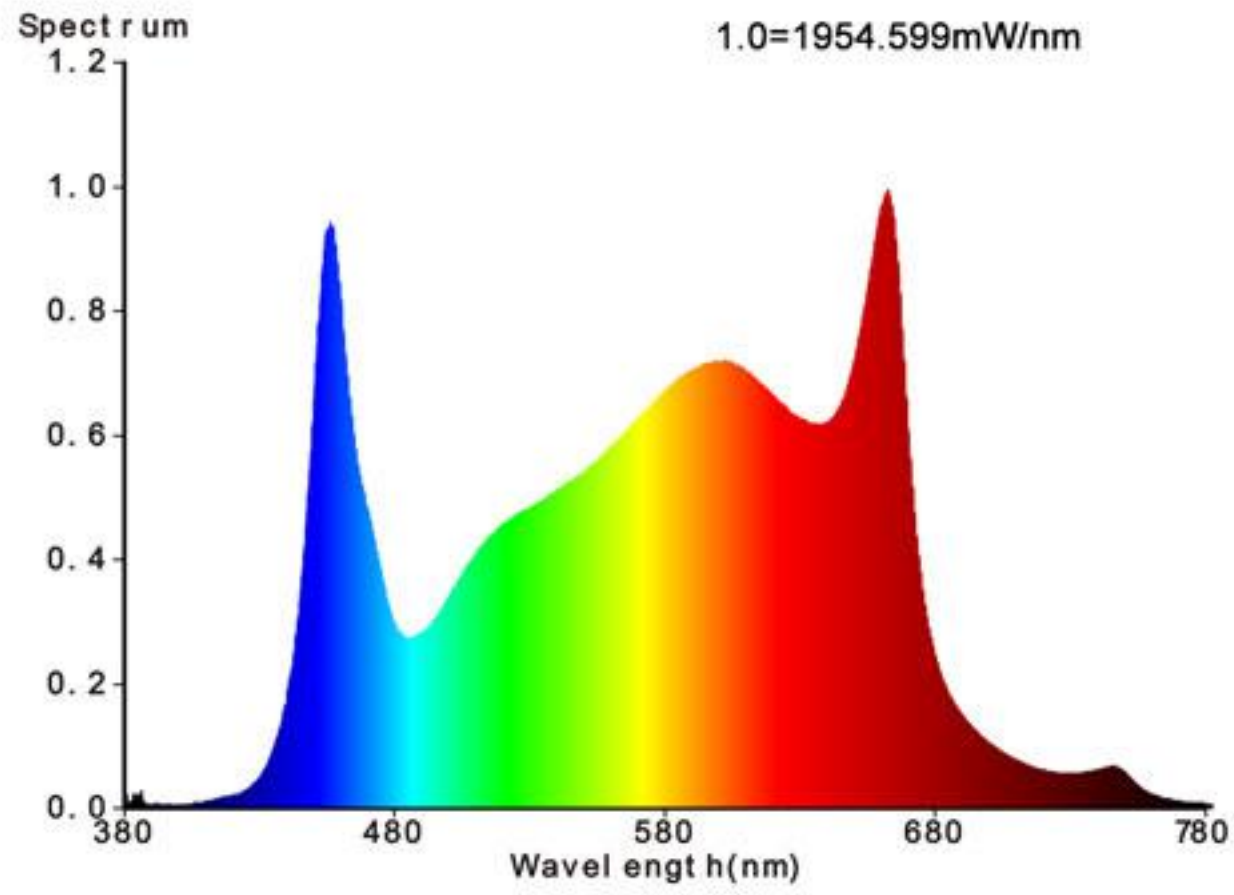
AC VOLTAGE	120V	240V	277V
AC Current	4.012A	2.011A	1.762A
AC Power	483.8 W	466.0W	464.3W
Power Factor	0.9915	0.9647	0.9501





# PAR OUTPUT OF MARS FC-E4800

## SPECTRUM GRAPH



## FC-E4800



- Warm White Light (3000K):** Boosts plants blooms
- White Light (5000K):** Promotes plants germination
- UV light (210-410nm):** Increase the light lifespan
- Red Light (660nm):** Speed plants germination
- IR Light (730nm):** Good for flower (dimmer than red ones)

## Economy & Efficient Chips

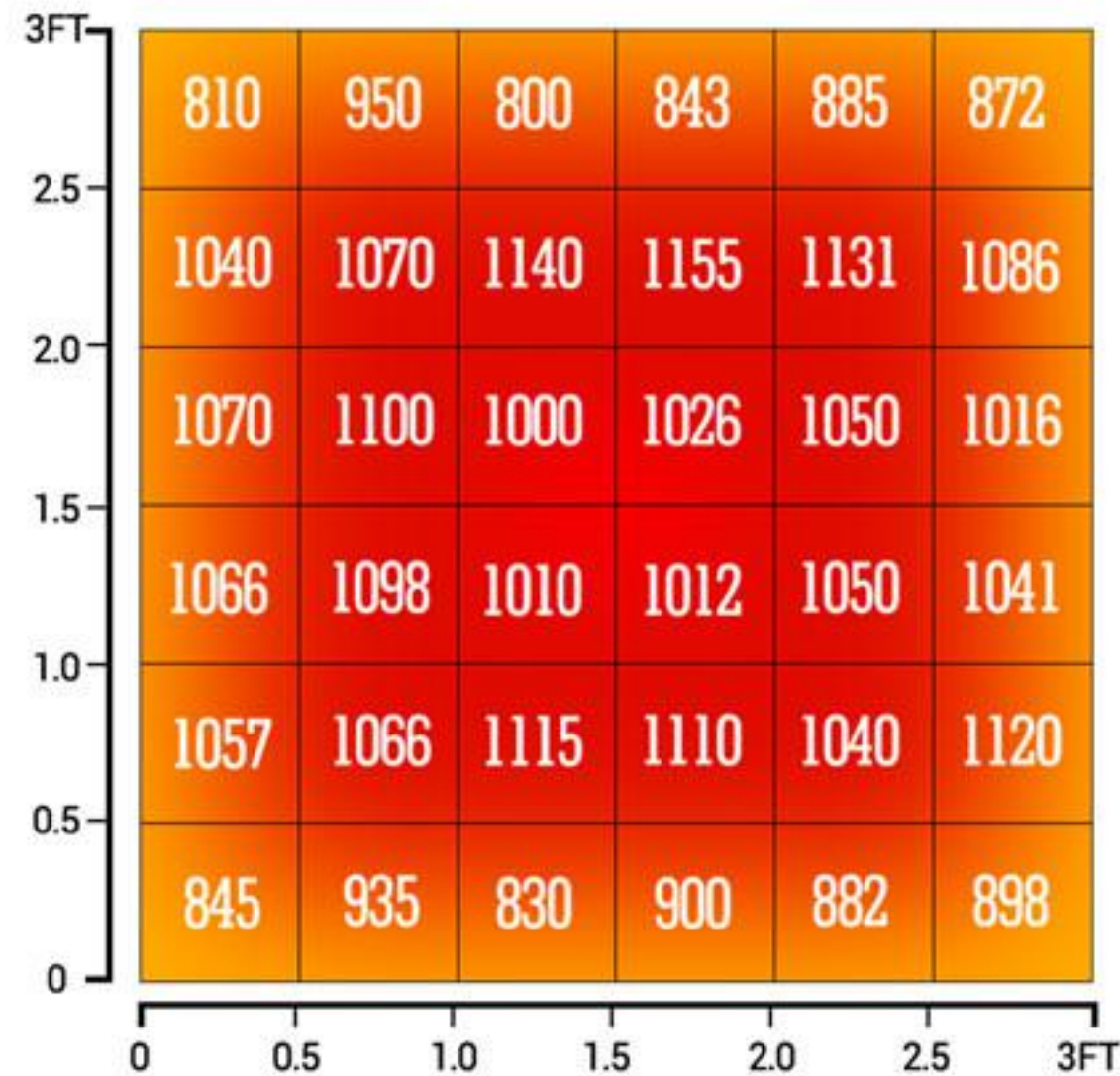
Single-chip intensity can up to 230lm/w

## Cost-Effective, Distribute Light More Evenly

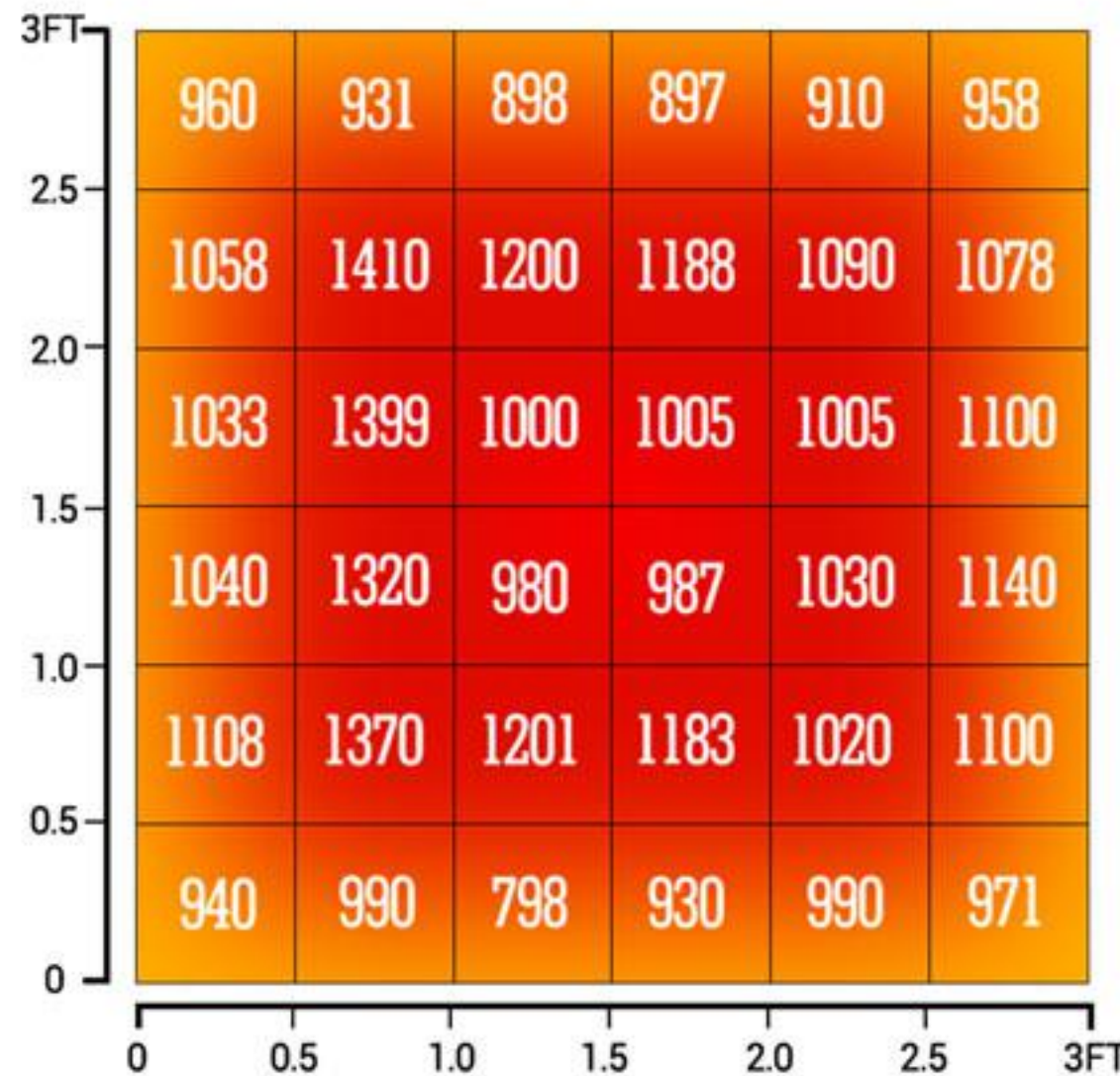
No loss of vertical space – ideal for rooms with low or high ceilings, multi-layer cultivation systems

## Tested at Coverage 4ft x 4ft

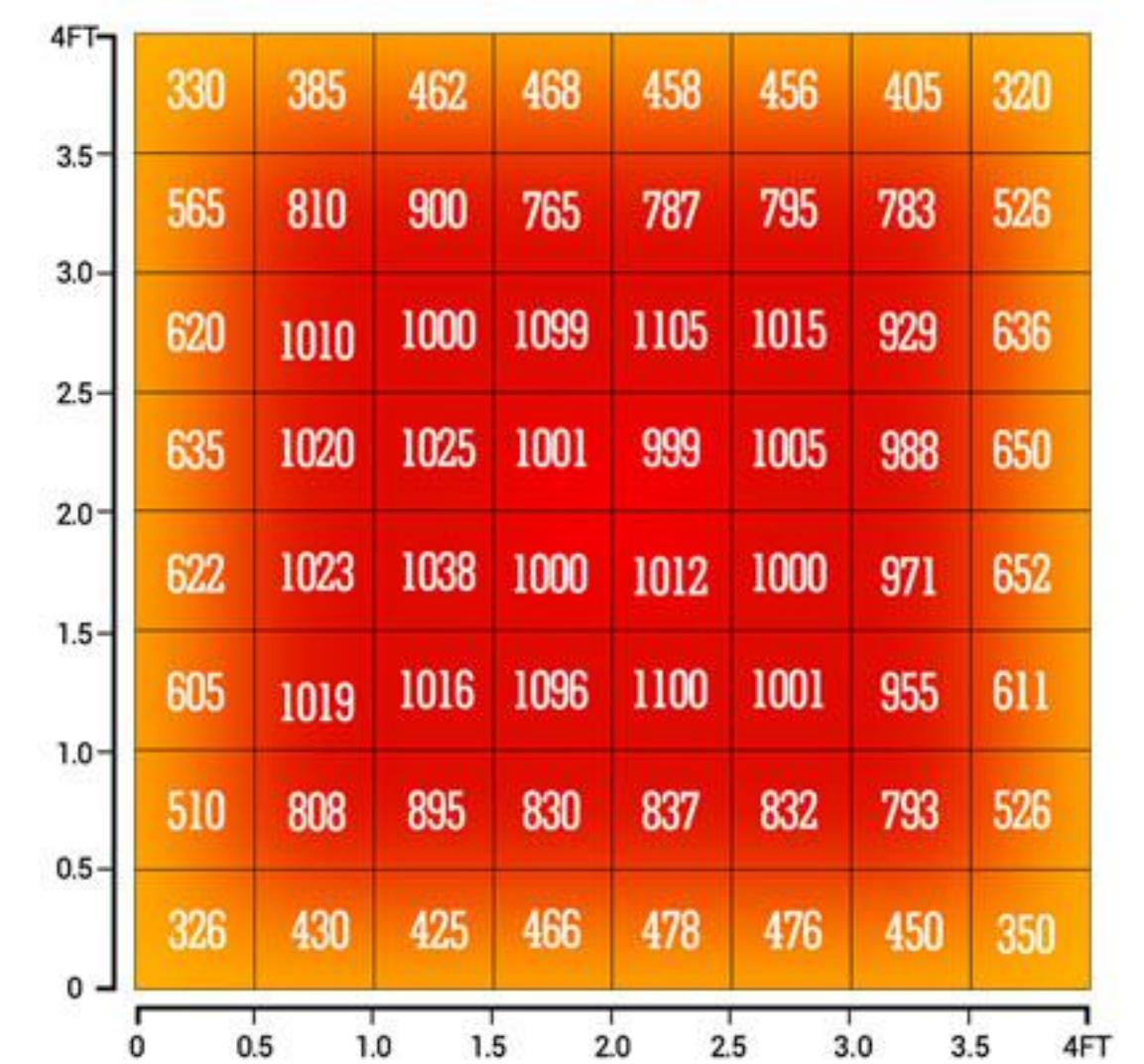
At Height of 8" / Bloom



At Height of 10" / Bloom

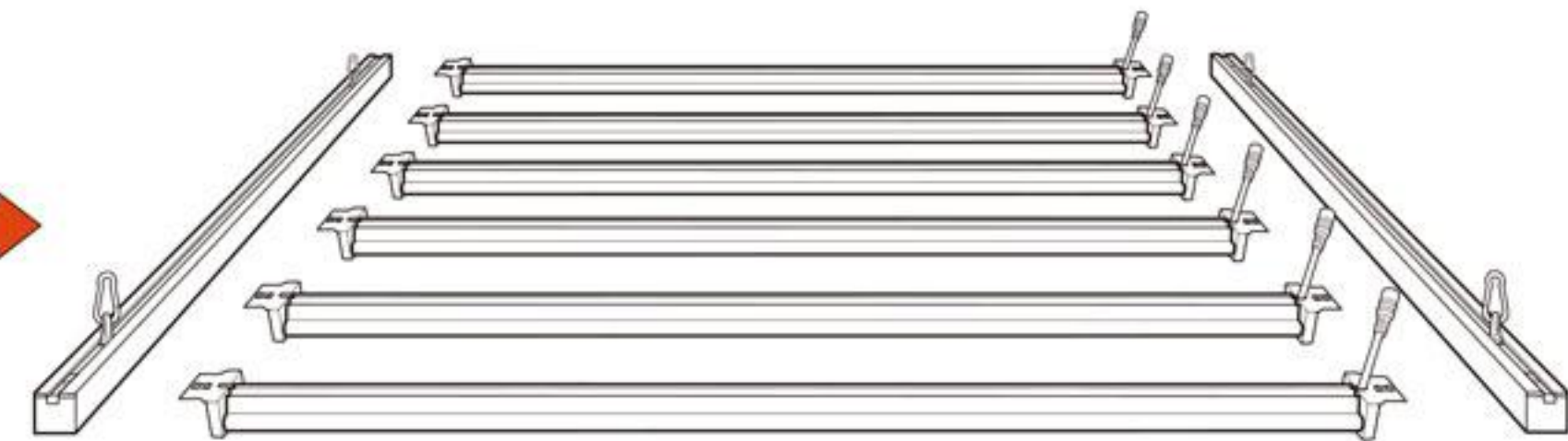
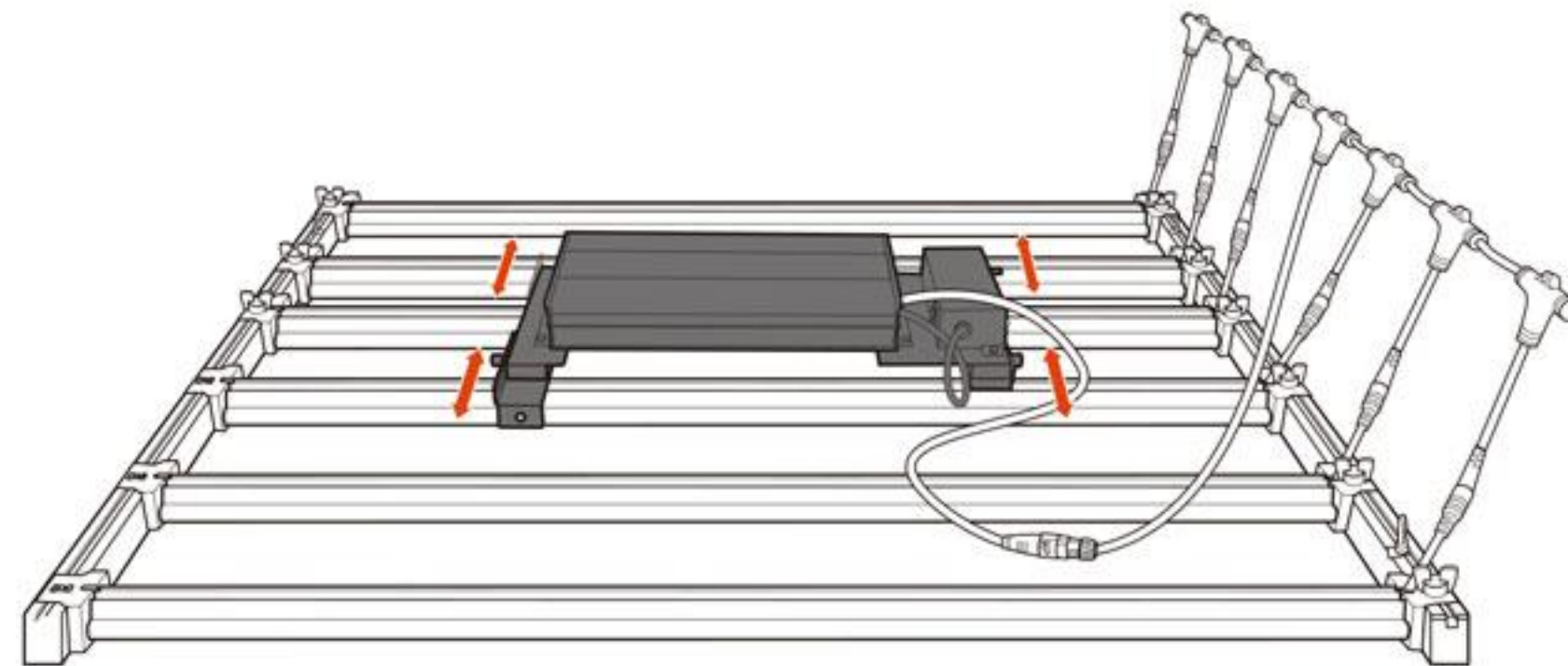
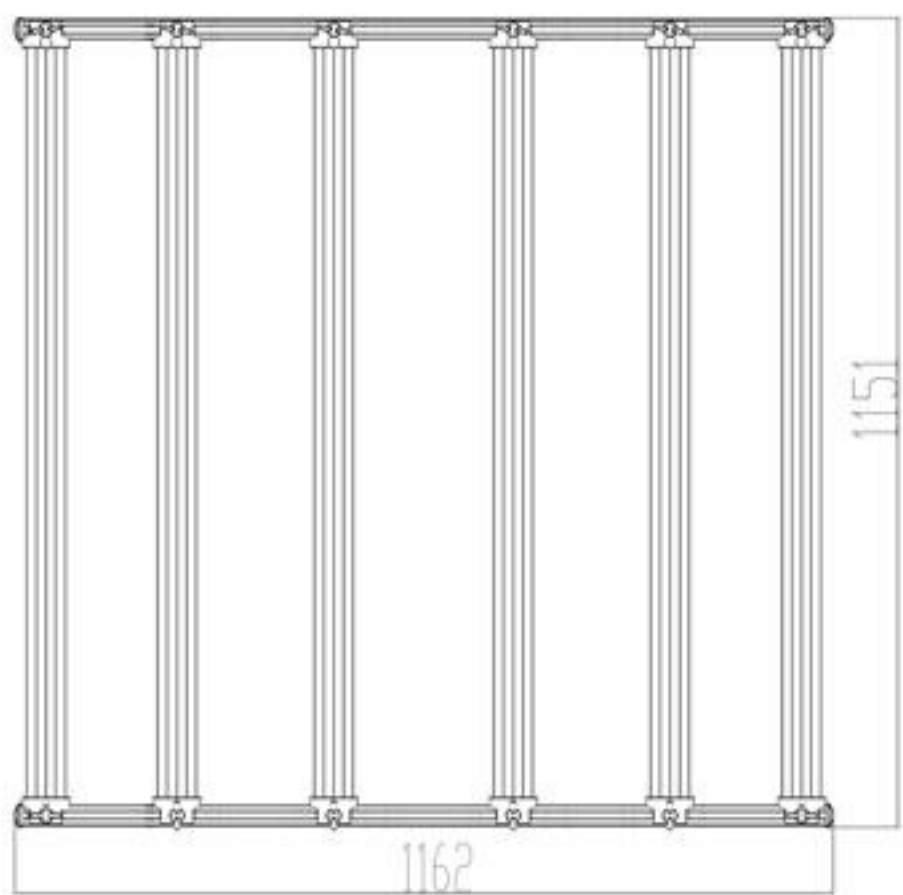


At Height of 12" / Veg or Bloom





# FC-E6500



## SPECIFICATIONS

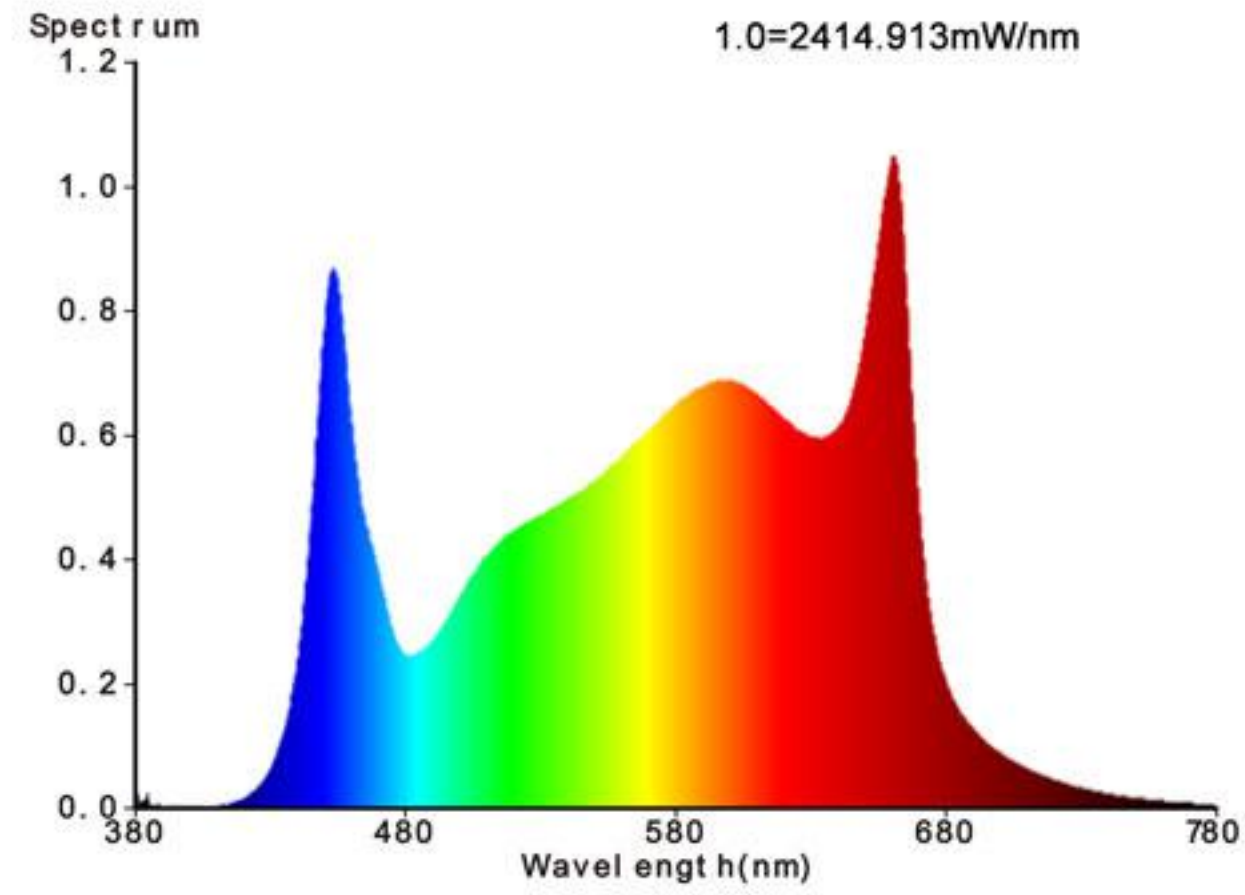
Model:	FC-E6500
Veg Coverage:	5FT*5FT
Flower Coverage:	4FT*4FT
PPE:	2.7 $\mu\text{mol}/\text{J}$
Par Value:	1782.92 $\mu\text{mol}/\text{s}$
Spectrum:	380-410nm,660-665nm,730-740nm, 2800-3000K,4800-5000K
Input Voltag:	AC100-277V
LED quantity:	3978pcs
Light Source:	bridgelux,UV,IR
Work temperature:	-20-35°C
IP Rating:	IP65
Light Distribution:	120°
Certifications:	DLC,ETL,RoHS,CE,UKCA
Warranty:	5 Years Warranty
Power supply:	MOSO
Light Size:	1162*1151*79MM 45.75"x45.31"x3.11"

AC VOLTAGE	120V	240V	277V
AC Current	5.393A	2.669A	2.315A
AC Power	650.7W	622.9W	617.2W
Power Factor	0.9928	0.9717	0.9612



# PAR OUTPUT OF MARS FC-E6500

## SPECTRUM GRAPH



## FC-E6500



- Warm White Light (3000K): Boosts plants blooms
- Red Light (660nm): Speed plants germination
- White Light (5000K): Promotes plants germination

## Economy & Efficient Chips

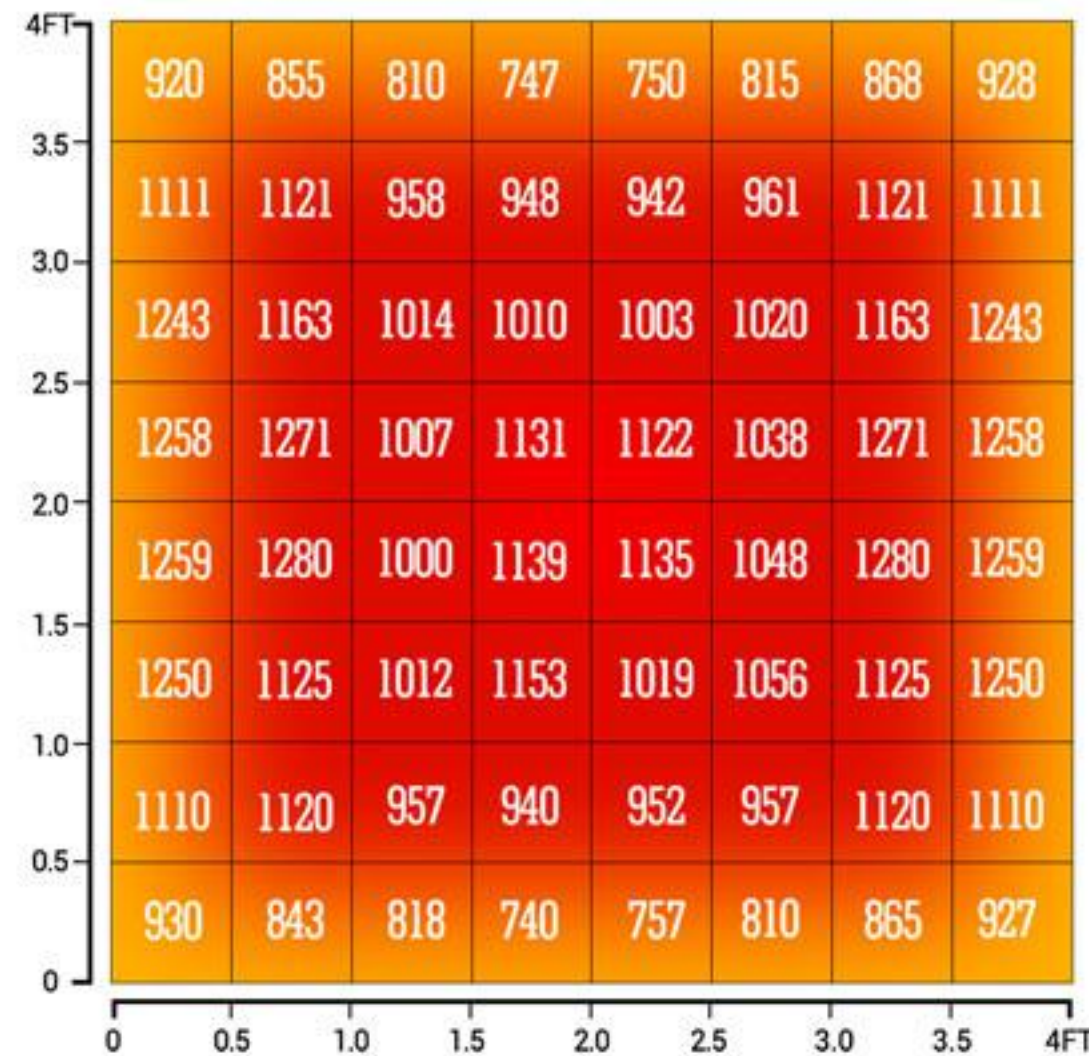
Single-chip intensity can up to 230lm/w

## Cost-Effective, Distribute Light More Evenly

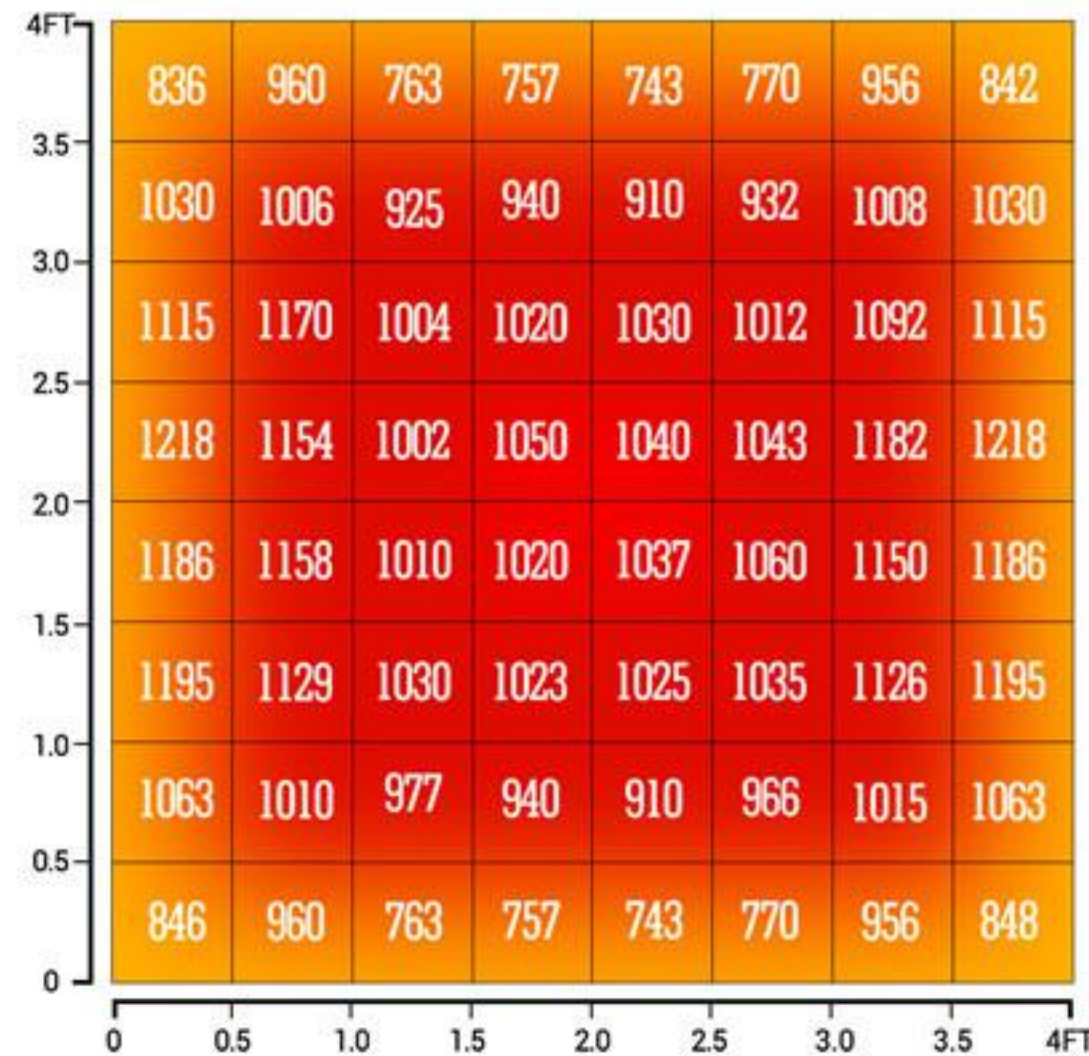
No loss of vertical space – ideal for rooms with low or high ceilings, multi-layer cultivation systems

## Tested at Coverage 4ft x 4ft

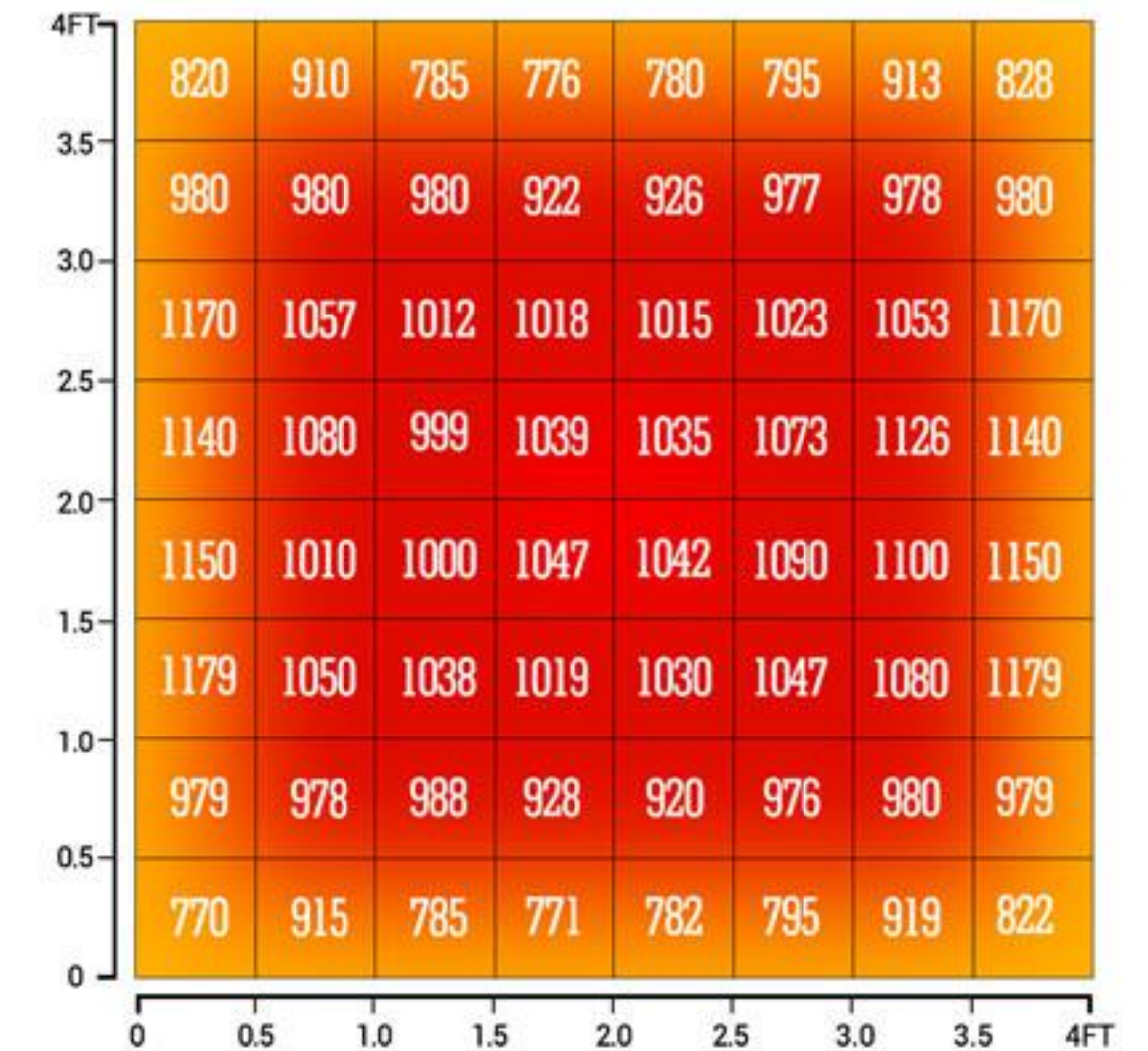
### At Height of 8" / Bloom



### At Height of 10" / Bloom



### At Height of 12" / Veg or Bloom







# Veg Room

TS 3000 is the best budget led grow light. It focuses on personal indoor growing and small-scale growing. It is highly cost-effective, suitable for veg room and indoor plants.

## INDOOR PLANTS

With the newest SMD led technology, TS 3000 provides the highest par(1215  $\mu\text{mol/s}$ )/lumen output, makes you get 30% higher yield when compared to old led lights. It can get max yield at 2.0g/watt, less pay but more yields will be got. TS 3000 will bring an amazing grow trip to any home grower as it beams huge amounts of light energy to plants below.



# TS 3000



# TS Series

- **High PPF Value**

TS outputs a High PPF value of 1215  $\mu\text{mol/s}$  with an efficiency of up to 2.7  $\mu\text{mol/J}$

- **Reflective Aluminum Hood**

Mars TS lights use highly reflective material, allowing your plants to receive more energy without burning your plants, allowing for maximum headroom.

- **Upgraded Dimming Daisy Chain**

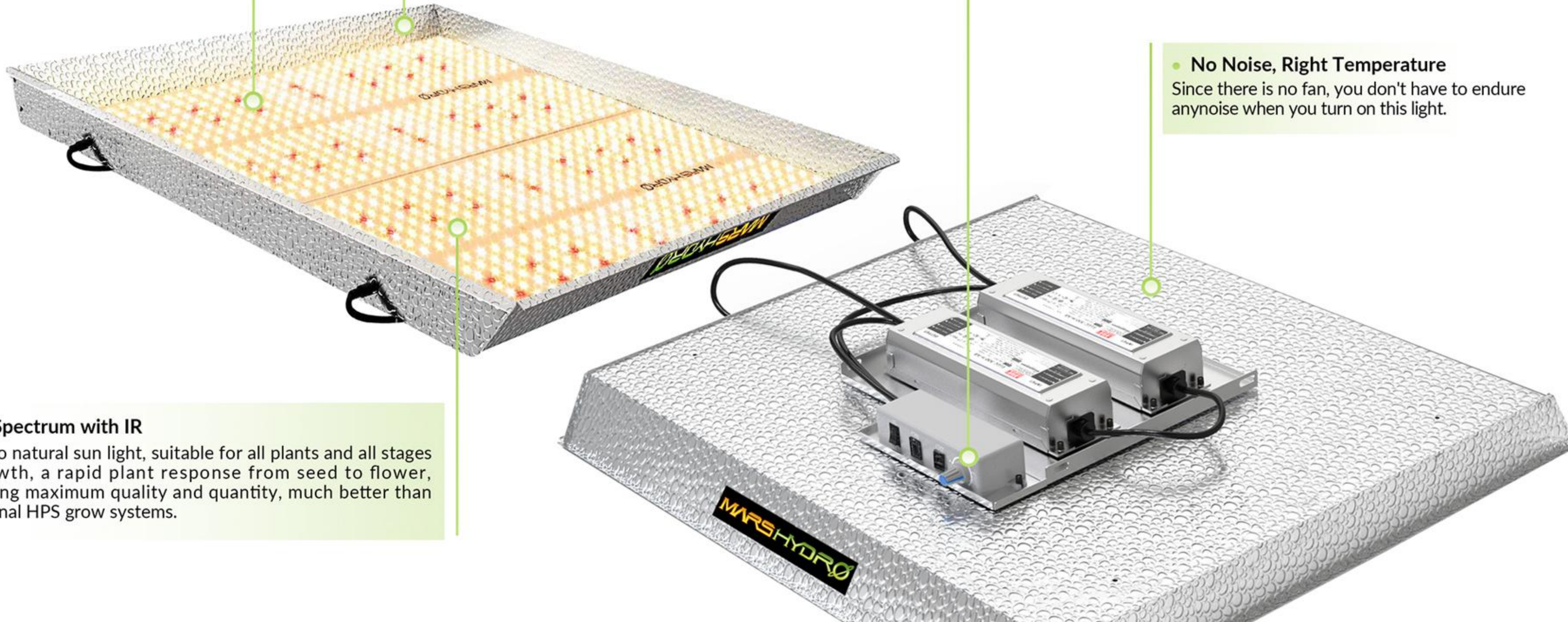
Easy dimming & daisy chain function, up to 20 multi-lights connected, convenient single control point, fitted with 2 waterproof Mean Well drivers, Suitable for large rooms and commercial setups.

- **No Noise, Right Temperature**

Since there is no fan, you don't have to endure any noise when you turn on this light.

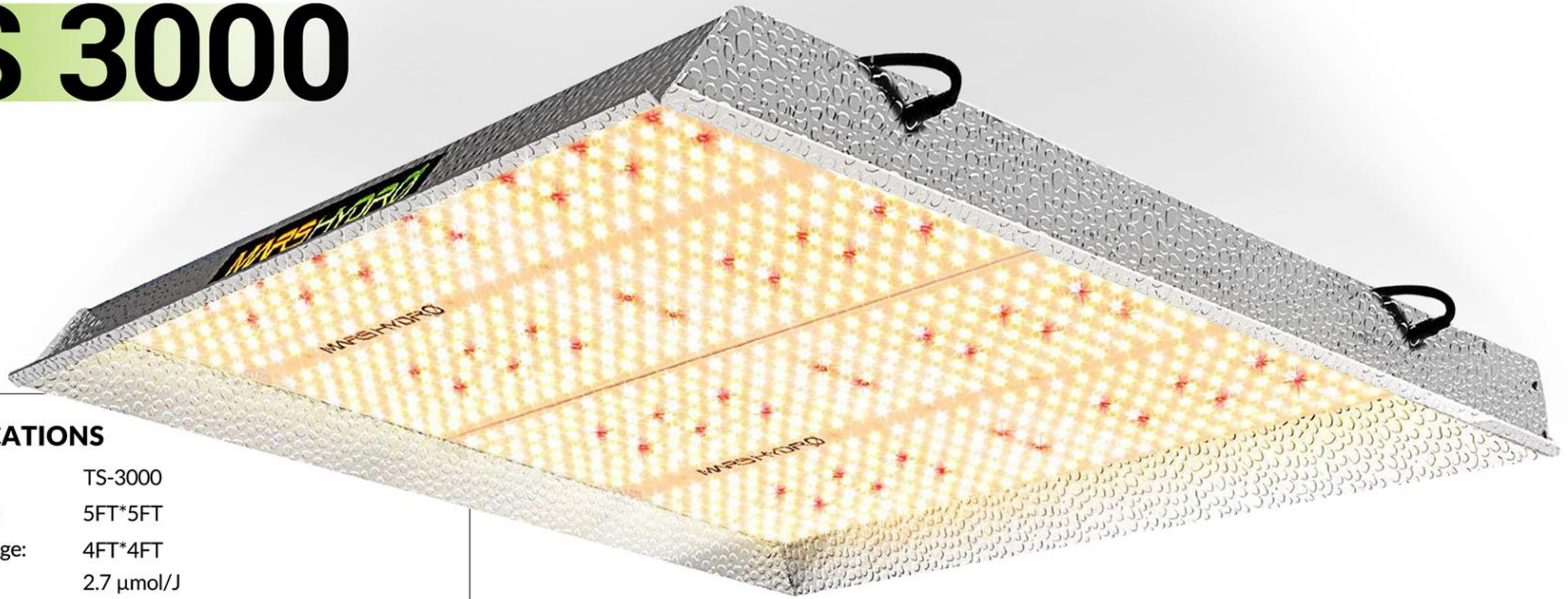
- **Full Spectrum with IR**

Close to natural sun light, suitable for all plants and all stages of growth, a rapid plant response from seed to flower, achieving maximum quality and quantity, much better than traditional HPS grow systems.



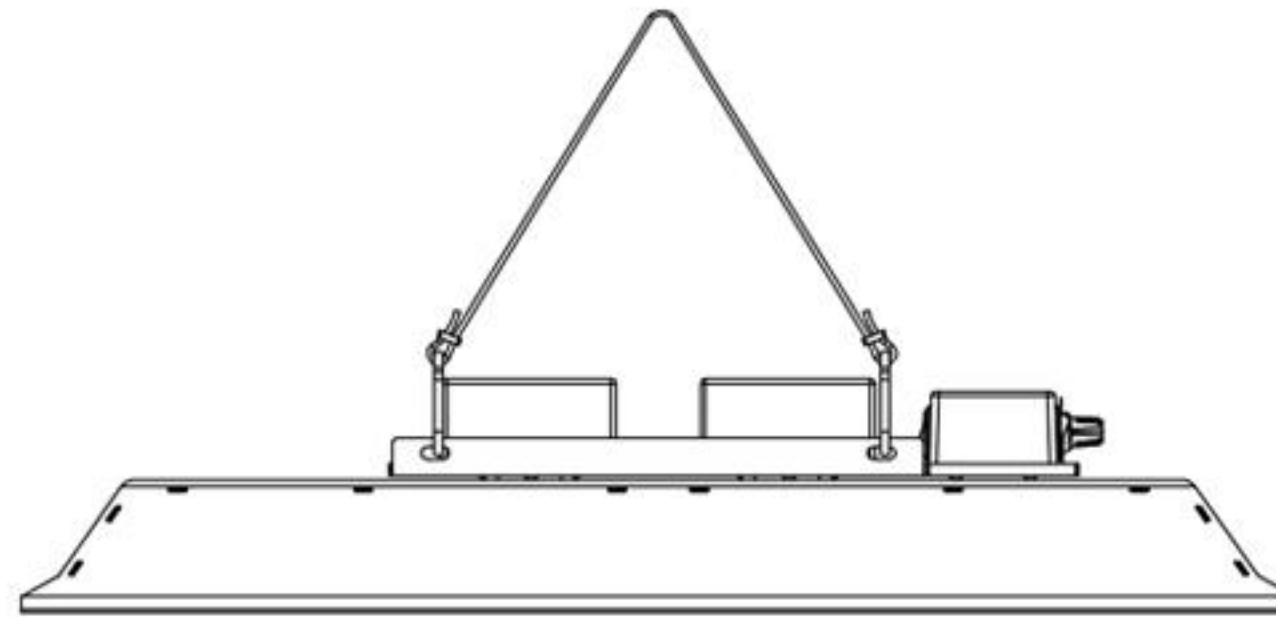


# TS 3000



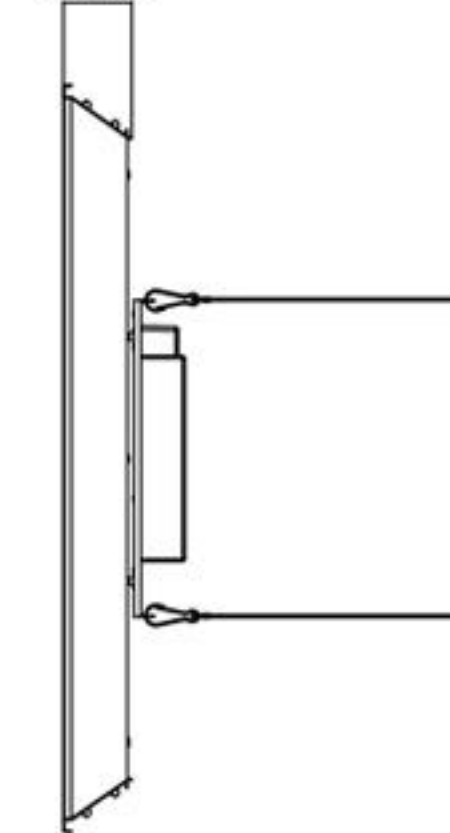
## SPECIFICATIONS

Model:	TS-3000
Veg Coverage:	5FT*5FT
Flower Coverage:	4FT*4FT
PPE:	2.7 $\mu\text{mol}/\text{J}$
Par Value:	1215 $\mu\text{mol}/\text{s}$
Spectrum:	660-665nm,3000-3200K,6000-6500K
Input Voltage:	AC100-277V
LED quantity:	1016pcs
Light Source:	Epistar, IR
Work temperature:	-20-35°C
IP Rating:	IP54
Light Distribution:	120°
Certifications:	DLC,ETL,RoHS,CE,UKCA
Warranty:	5 Years Warranty
Power supply:	Meanwell
Light Size:	641.5*579.2*68.63MM 25.25"x22.80"x2.70"

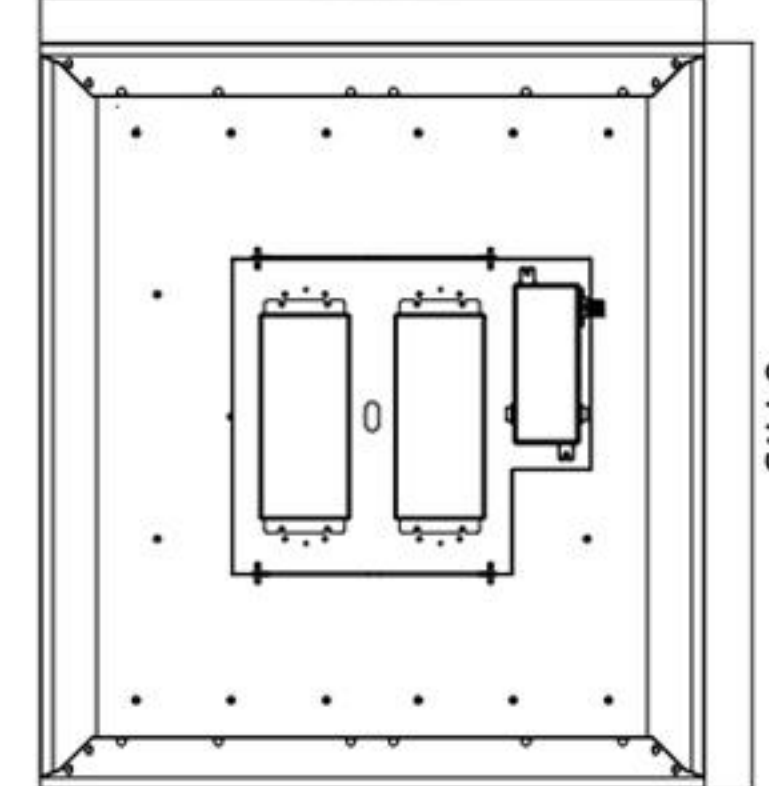


AC VOLTAGE	120V	240V	277V
AC Current	3.782 A	2.018 A	1.619 A
AC Power	455.9 W	436.5 W	433.5 W
Power Factor	0.9952	0.9832	0.9763

51.93



579.2

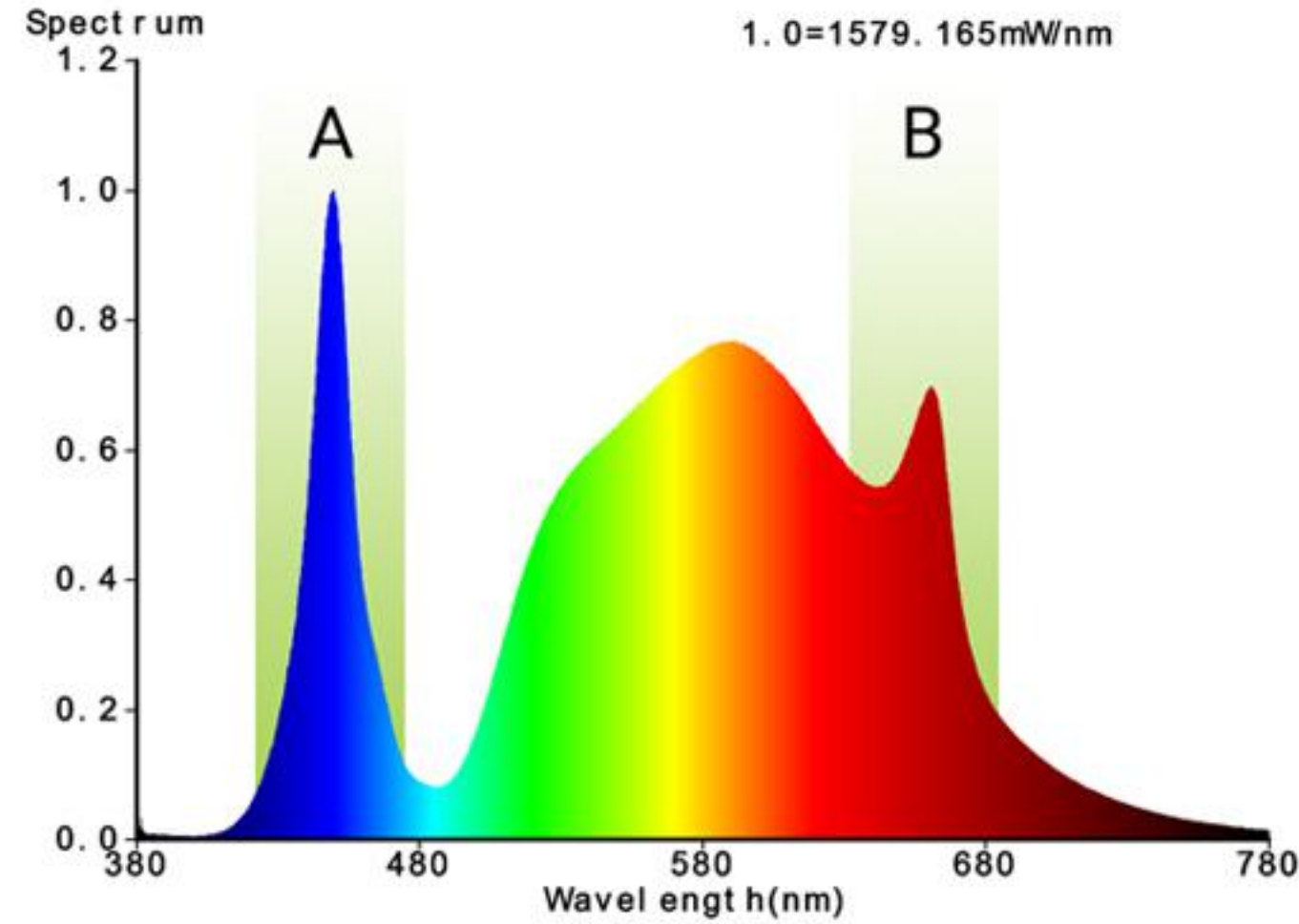


641.5



# PAR OUTPUT OF MARS TS 3000

## SPECTRUM GRAPH



## TS 3000

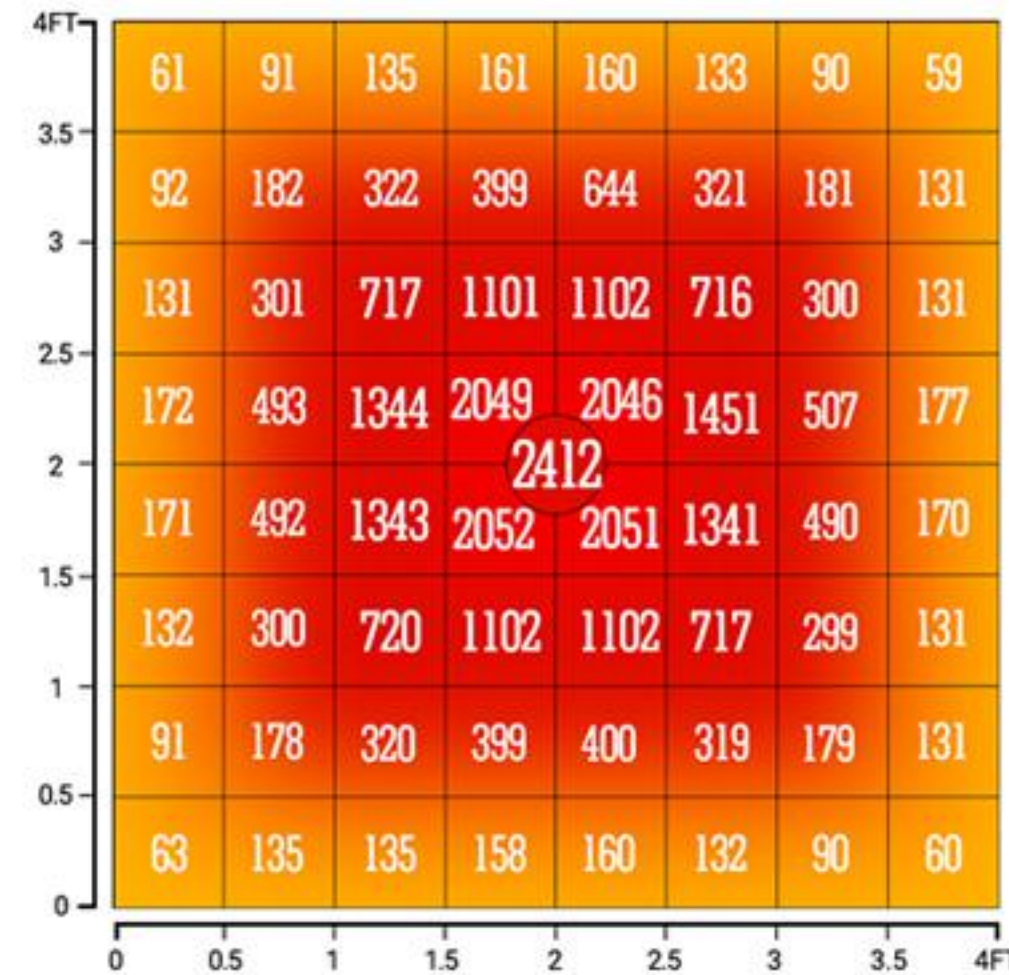
- Warm White Light (3000K): Boosts plants blooms
- White Light (5000K): Promotes plants germination
- Red Light (660nm): Speed plants germination
- IR Light (730nm): Good for flower (dimmer than red ones)

**A** Enhanced Blue Spectrum: Promote veg, accelerate growth

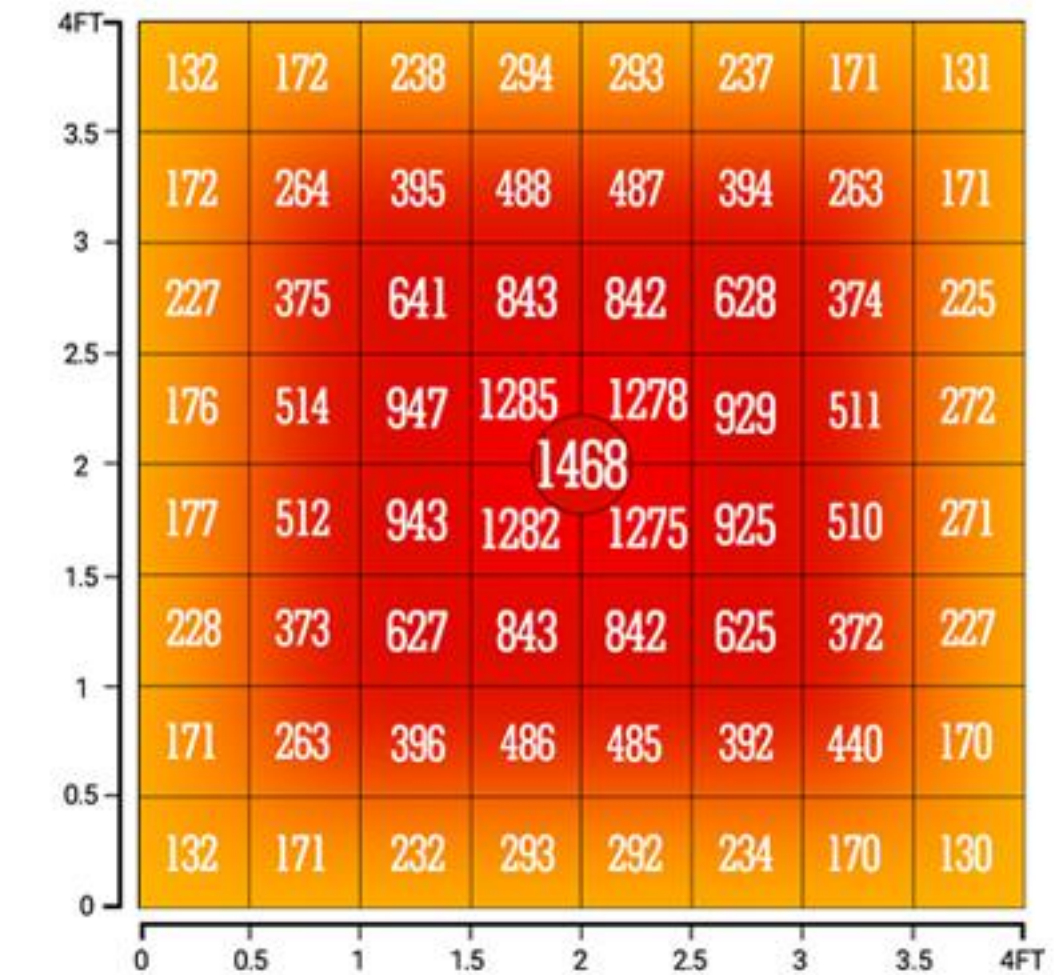
**B** Rich Red Spectrum: Boost crop yield & quality

## Tested at Coverage 4ft x 4ft

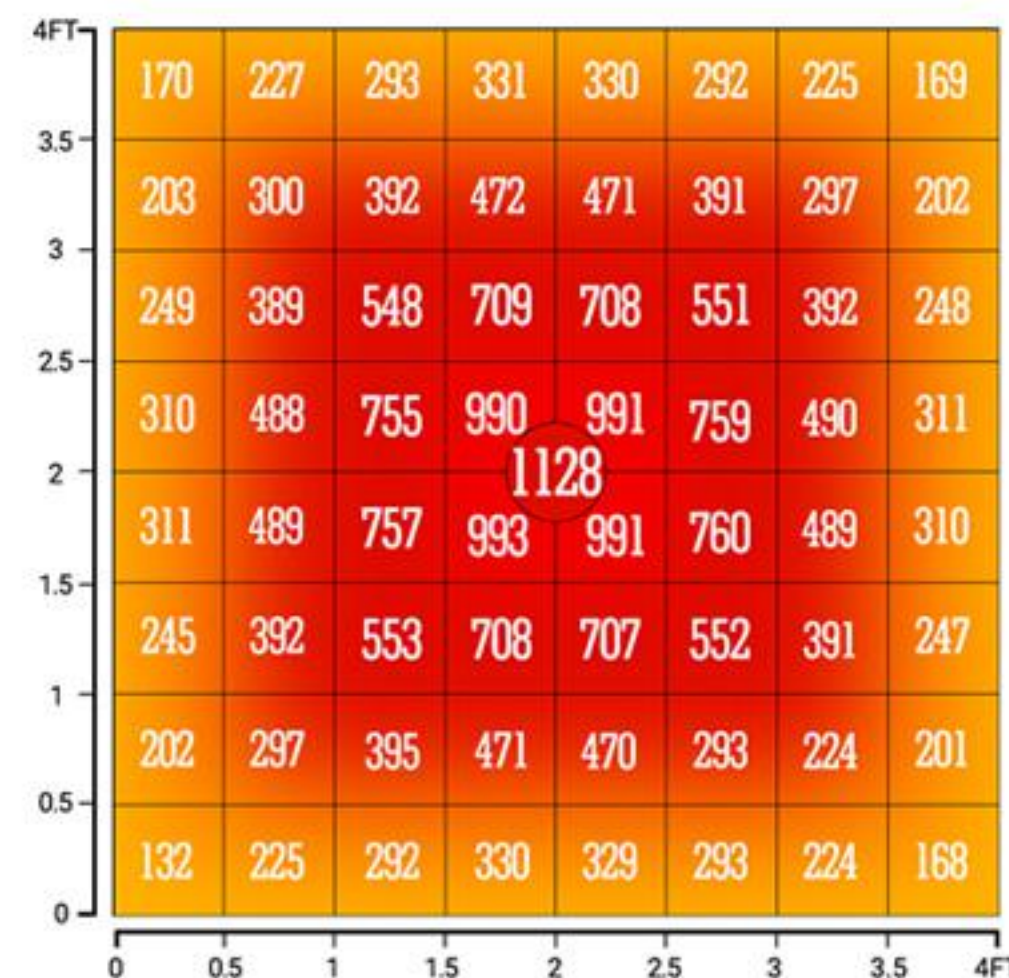
### At Height of 12" / Bloom



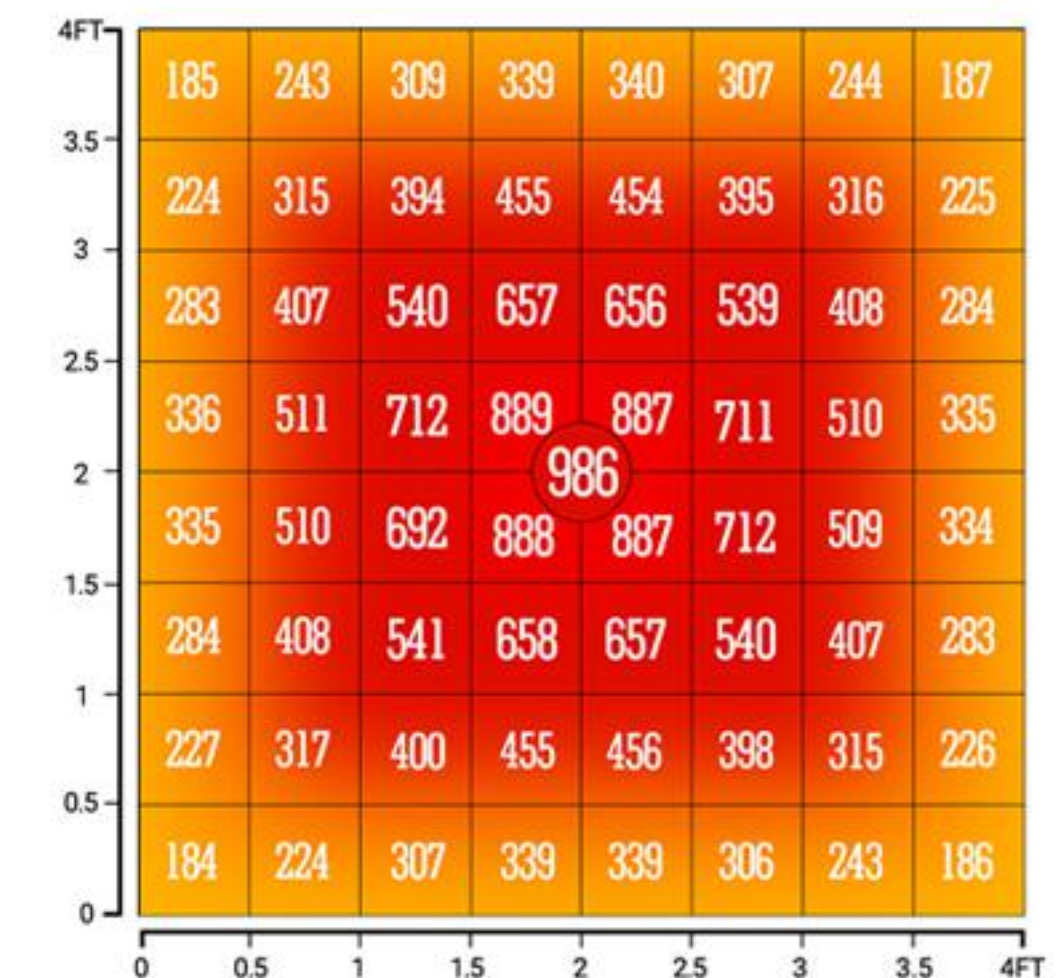
### At Height of 18" / Veg or Bloom



### At Height of 22" / Veg



### At Height of 24" / Veg





# Mars Hydro Controllers

- Suitable for one or two grow rooms
- Switch, dim, and boost your fixtures from a central unit
- Independent sunrise and sunset settings
- Auto-dim and auto-shutdown by temperature safety system
- Temperature control your rooms



○ POWER PLUG

○ SENSOR

○ SIGNAL END

## Product parameter

### ■ PARTS LIST

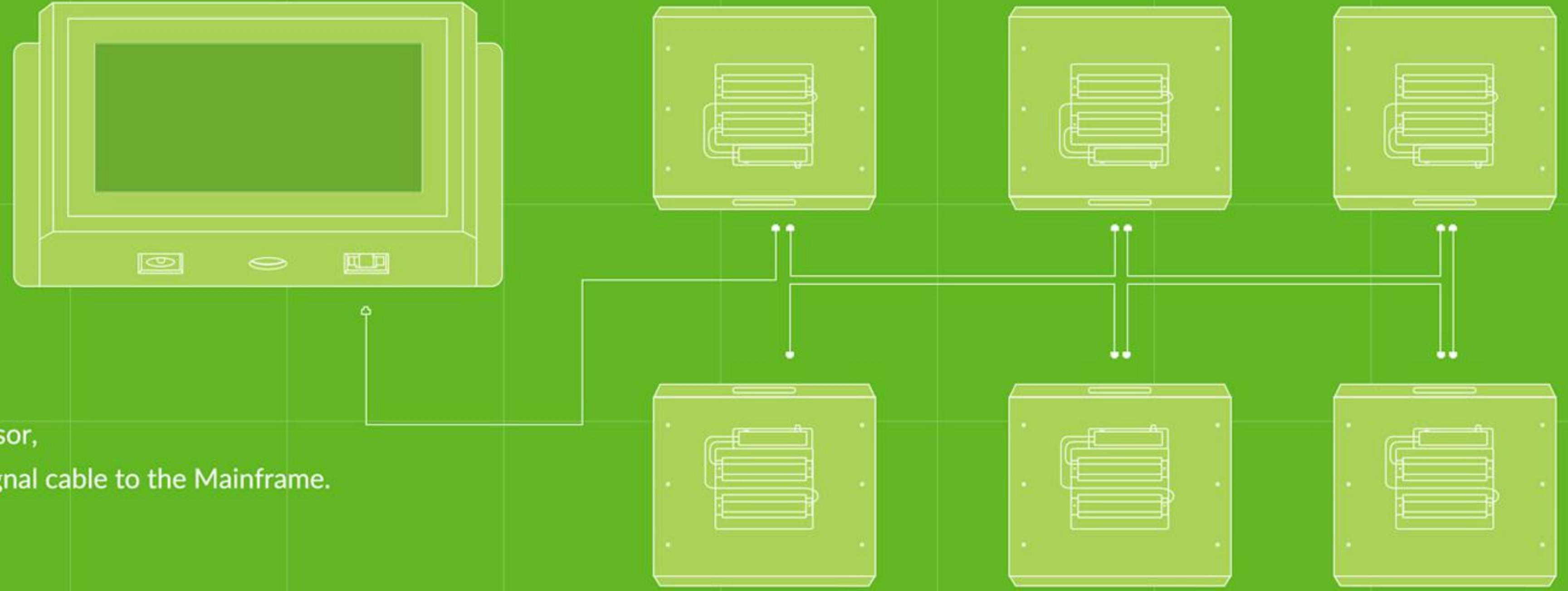
Accessory	Specifications
Power adapter	(110V-220V input, DC12V output)
Temperature and humidity sensor	Working voltage: 5V Temperature measurement range: -40°C~+80°C Temperature measurement accuracy: ±0.5°C Humidity measurement range: 0-100%RH Humidity measurement accuracy: ±2%RH Cable length: 3 meters
Dimming cable	Gray
Mainframe	Silver or black, according to customer needs Specifications should be different appearance

### ■ PRECAUTIONS

1. The screen should not be pressed hard and touched with sharp objects.
2. When setting the timing dimming, please set the brightness range between 0-100%.
3. The product cannot be heated at high temperature
4. The product is not edible
5. The product cannot be soaked in water
6. Children should stay away from this product
7. The product cannot be hit or dropped
8. This product is a precision electronic product, and isolation protection must be used during transportation.



# Controllers



## INSTRUCTIONS

1. Connect the power adapter, temperature and humidity sensor, and the corresponding interface position of the dimming signal cable to the Mainframe.
2. Use the signal cable to connect the dimmer and the lamp.
3. Turn on the power adapter switch to supply power.
4. Follow the instructions on the manual.

## MAINFRAME

Unified control of power supply with PWM/1-10V functional interface



## DIMMING CABLE

Use for connecting lamps



## POWER ADAPTER

Use to support the power of controller

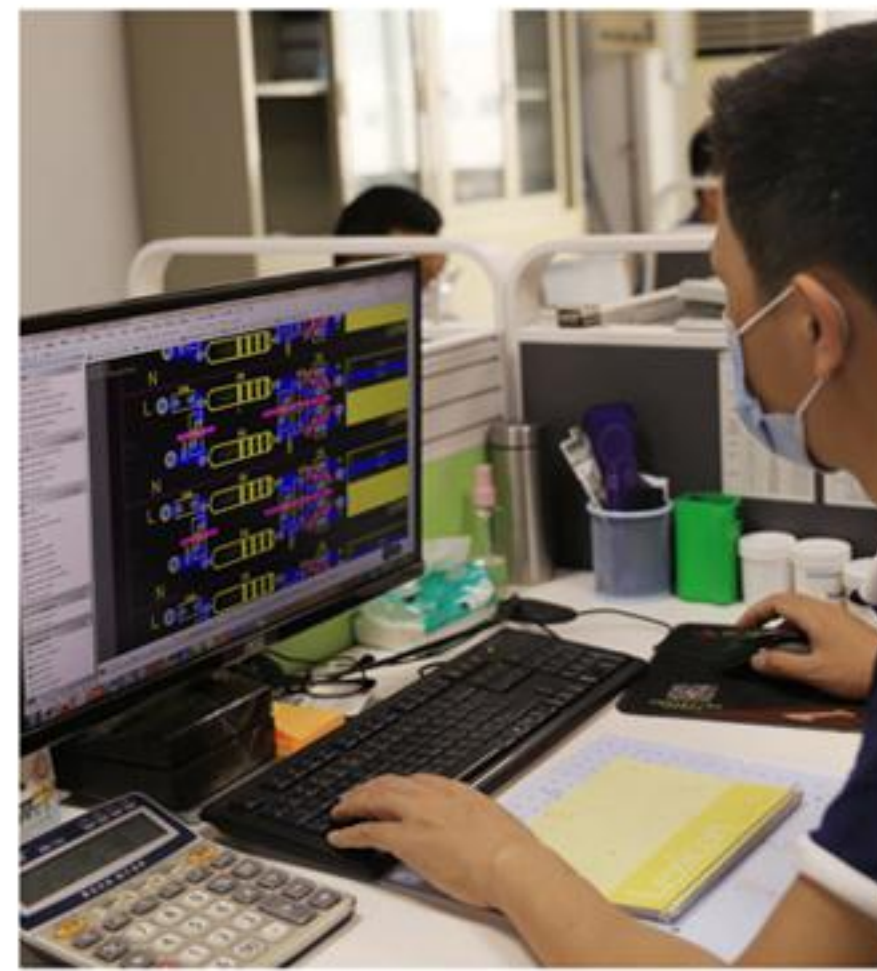


## HUMIDITY SENSOR

Used to collect environmental temperature/humidity data









# Mars Hydro Supports

**12** year  
manufacturer

Mars Hydro was founded in Shenzhen's high-tech park in 2009, providing highly cost-effective LED grow light solutions for crop production. Mars Hydro provides healthier plants and more bountiful yields.



## Customized Service

As a WORLD-CLASS manufacturer, we allow customization of fixtures to operate at desired voltages, while also supporting OEM (Original equipment manufacturer) services for wholesalers. Our Research and Development (R&D) department offers customized LED solutions for different crop cultivators.



## High-Quality

Our lights are safe and efficient. Not just CE, RoHS, ETL certified but also DLC listed, which signals a high level of energy efficiency in LED lighting and helps you get Energy Rebate Program funding for your project.



## Warehouse & Delivery

With factories in Shenzhen and local warehouses in the USA, Canada, UK, Europe, Australia, and Russia, we are able to deliver to your door. Fast and free local delivery, with a shipping time of 3-7 days.



## Service & Warranty

Our professional support team will be happy to answer all your questions about our products and services with responses in 24 hours or less. We provide a 5 Years warranty with local repair centers. Convenient and fast.

**CERTIFIED  
PRODUCT**





# MARS HYDRO

GROW ON EARTH, GROW WITH MARS

## MARS HYDRO WAREHOUSE LOCATION

CHINA FACTORY/HEAD OFFICE

📍 Shenzhen, China

📍 USA:  
California & New Jersey

📍 Canada:  
Vancouver & Toronto

📍 Australia:  
Sydney

📍 UK:  
London

📍 Germany:  
Ginsheim-Gustavsburg

📍 Russia:  
Moscow

## MARS HYDRO

Email:

[info@mars-hydro.com](mailto:info@mars-hydro.com)

Tel.:

+1 626 587 8506

Website:

[www.mars-hydro.com](http://www.mars-hydro.com)

Address :

4F,L Building,JingTie Industrial Park,  
He'ao Village,Henggang Town,LongGang District,  
Shenzhen,518115,China.

