



## Model **E** -SH series **LED GROW LIGHT**

0-10V dimming  Standard

### APPLICATION

The LED grow light is powered by full spectrum Sunlike LEDs and high reliable drivers. It is a modular, highly efficient LED designed for vertical farming and greenhouse. It's highly recommended to use in:

- *vertical farming*
- *indoor farms*
- *green houses*
- *individual home grow tents*



## FEATURES

- Use Top Bin LED, full spectrum, high PPF efficacy plus ultra-high efficiency deep red 660nm, FR730nm and UV395nm to bring high PAR and PPFD, delivered onto the plants at all full-cycle growing stages.
- Slim design that is foldable up to 180 degrees can makes the light small, compact and easy to install;
- The simple Plug-and-play structure makes it much easier to assemble, quickly mount the light in low rooms, on vertical racks, greenhouse;
- Fan-free passive thermal management and best heat sink makes no noise to interrupt the surroundings and ensure longer life time;
- Use high PPF efficacy LED diodes to bring high PAR and PPFD, delivered onto the plants;
- Most trustable Sunlike Spectrum with proven result, optimized for rapid growth and complete plant development;
- Master controller, ideal for group control, timing and dimming makes your lighting system smarter and easier;
- Energy saving, Instant start, no flickering, no humming, long service life, increase hemp output;

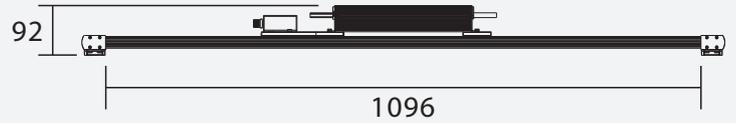
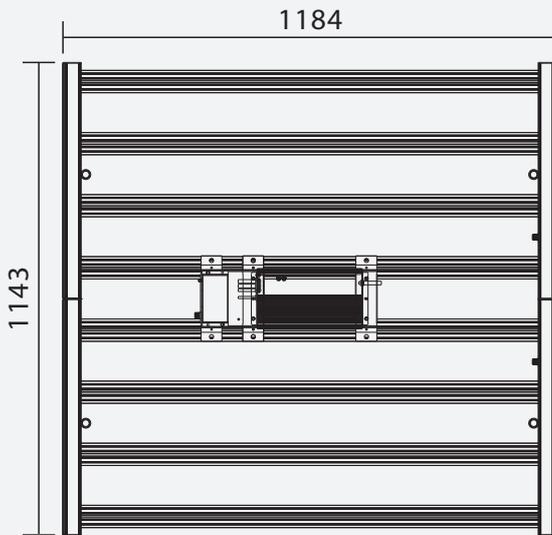
## SPECIFICATION

Model No.	LION-GL600WHF3-08YD-020101
Lamp size	1184*1143*29mm
Light source	LED
LED quantity	(340W+16R+8UV+8FR) * 8Bar
LED brand	Epistar
Spectrum	Full spectrum White + 660nm Red +395nm UV +730nm FR
AC input voltage	100-277V AC, 50/60 Hz
Amperage	2.17 @277V
LED drive brand <sup>1</sup>	Inventronics
Power factor	>0.95
PPF efficacy	2.7umol/J
Light output PPF	1620umol/s
Light distribution	120°
Thermal management	Passive
Max. ambient temp.	45°C /113°F
Function	0-10V knob dimming
Mounting height	>6" (15.2cm) above canopy
Coverage	6ft x 6ft
Housing color	Black and silver
AC main cord <sup>2</sup>	1.5M(5") long with plug
Material	Aluminum + PC
IP rating	Wet location
Lifetime	L90:>54,000hrs
Warranty	5 years warranty

Remarks:

1. For other requirement on driver brand, please consult with our sales rep.
2. We provide America Plug as standard. For other requirement, please consult with our sales rep.

**DIMENSION(mm)**



Unit:mm

**180 DEGREE FOLDABLE**

The foldable design feature can save your manpower and shipping cost.



**FIXTURE & ACCESSORIES**

Included with:

- A. LED grow light fixture x1
- B. Driver x1
- C. Knob dimmer x1
- D. Driver holder x1
- E. External Rj11 Network cable x1
- F. Input Power cable x1
- G. Steel hanging cable x2
- H. Rope Ratchet x2



B



C



D



E



F

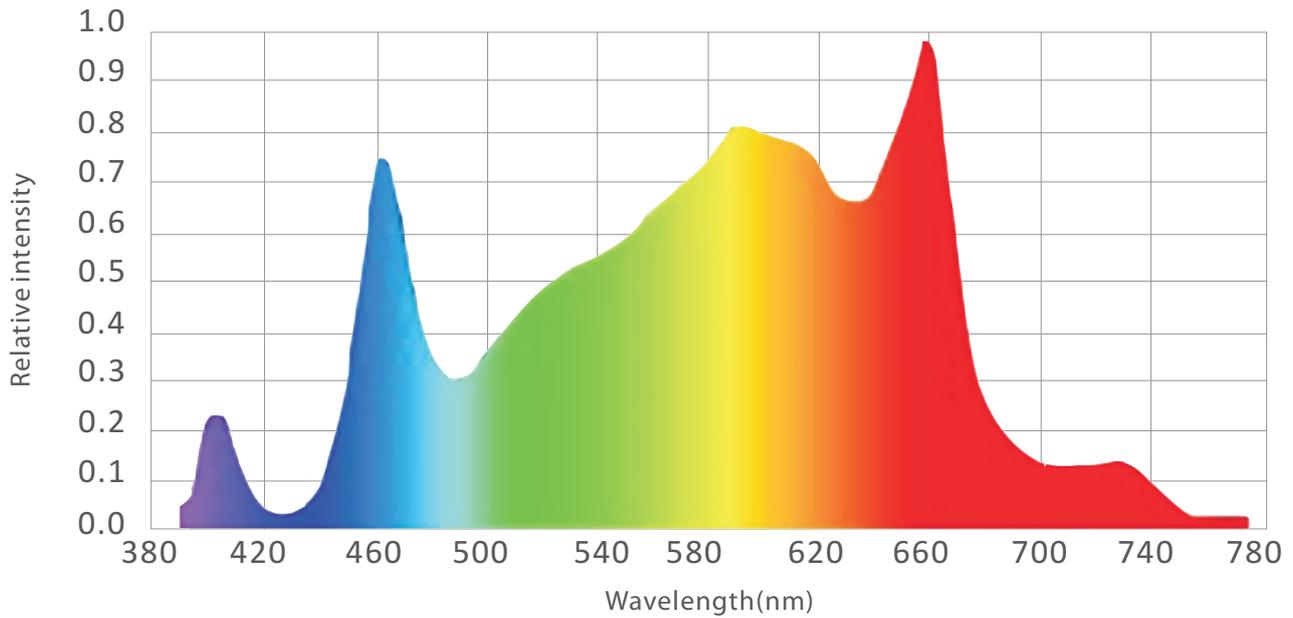


G



H

## SPECTRUM



## SPECTRUM INSTRUCTION

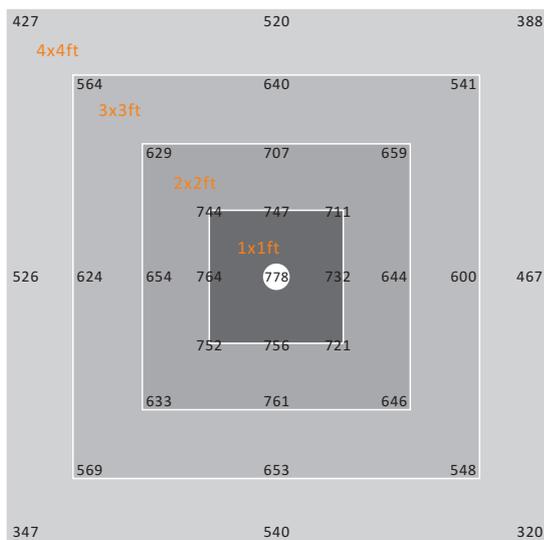
280-315nm	UVB ultraviolet light which is harmful for the plants and may cause the colors to fade
215-380nm	Range of UVA ultraviolet light which is not harmful for the plant growth.
380-400nm	Visible light spectrum which helps the plants on processing chlorophyll absorption.
400-520nm	Including violet, blue, green bands, peak absorption by chlorophyll, big influence on photosynthesis-Vegetative growth.
520-610nm	This includes green, yellow and orange bands, which are absorbed by plants.
610-720nm	Red band, large amount of absorption by chlorophyll occurs, strong influence on photosynthesis- Flowering and budding
720-1000nm	Small amount of the spectrum could be absorbed for plants, enhancing cell growth.

Below is the recommendation for adjusting the mounting height between the LED grow light and the plants according to the growing stage.

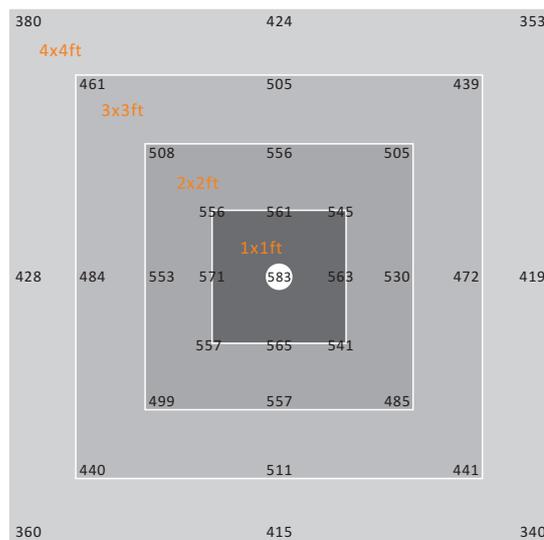
Seedling Height 150-160cm	Vegetative Height 120-140cm	Flowering to Harvest Height 50-70cm
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## PPFD DISTRIBUTION



PPFD from a height of 24 inch(60cm)



PPFD from a height of 36 inch(90cm)

\* The PPFD result is based on LION-GL600WHF3-08YD-020101, tested in a growing tent environment. The data may vary in other condition, such as the height the light fixture is placed, the ambient environment etc.

## SMART CONTROL SYSTEM

0-10V dimming feature can make your lighting system much smarter and easier. A group of up to 100 LED grow light fixtures can be connected the two Rj11 ports of the controller.

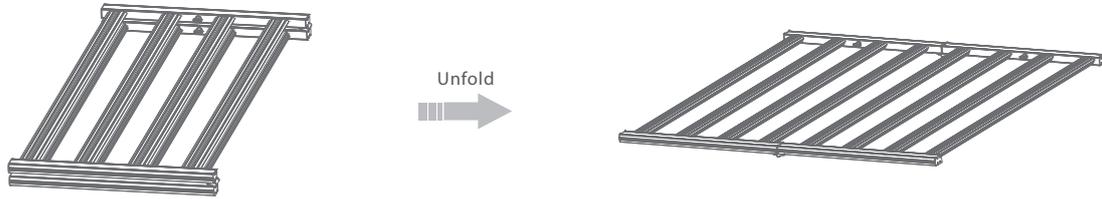


1. Switch the rotary Knob on all our LED grow light fixtures to "EXT"(external controller).
  2. Plug the Rj11 end into the port of the master controller( not included with our light).
  3. Plug the other Rj11 end of the controller cables into the input of a Rj11 splitter( the controller on each fixture). Use an interconnect cable to connect output of the Rj11 splitter to the input of the Rj11 port of the LED fixture.
  4. Repeat this process to connect up to 100 LED fixtures per group.
- For more details of how to use the master controller, please consult our sales.

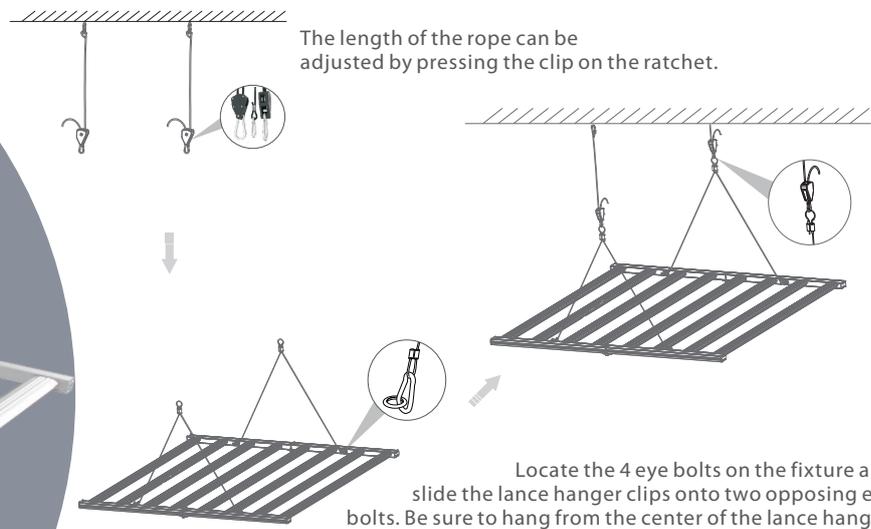
## INSTALLATION INSTRUCTION

Be sure that the light fixture is unplugged from the power source before installation.

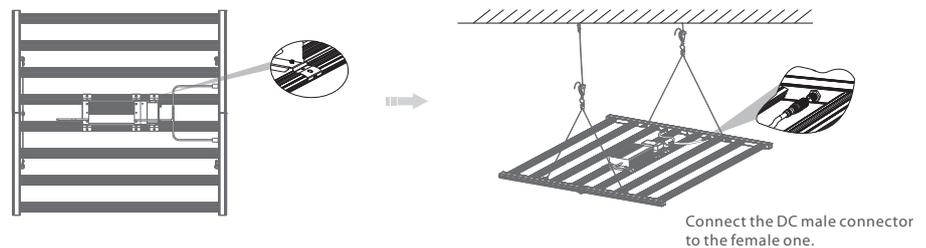
**STEP 1:** Take out the light fixture from the box, unfold it and place it horizontal at 180 degrees. At the same time, Prepare the driver for installation, which comes with the light fixture in another separate box.



**STEP 2:** Fix the rope in/on the ceiling, beam or somewhere else. Make sure to fix the rope to something that can hold the weight of the LED light fixture.

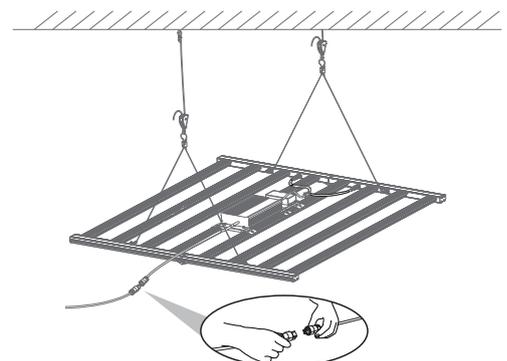


**STEP 3:** Clip the driver holder on the bars or hang it on the racks. (Normally the driver has been fixed onto the driver holder before shipment). And connect the DC male connector to the female one on the light fixture.

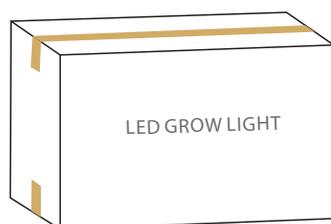


**STEP 4:** Plug the RJ11 end into the port of the master controller. Use an interconnect network cable to connect Rj11 splitter to another on the LED fixture. Please see more details on the Master Controller User Manual.

**STEP 5:** Connect the AC connectors, plug it and power the fixture on. Then installation is completed.



## PACKAGE



Box	QTY	Size	N.W/CTN	G.W/CTN
Lamp box	1 PC	128x16x68cm	10.6KG	11.35KG
Driver box	4 PCS	58*43.5*29.5CM	18.8KG	21.5KG

## MAINTENANCE

- Do not clean the LED fixture with detergents, abrasives or aggressive substances.
- Please regularly check the LED fixture for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance. Clean the outside of the LED fixture using a dry or damp cloth.
- Regularly check the cable connections of the LED fixture to ensure it is undamaged.

## STORAGE AND DISPOSAL

- This LED fixture is to be stored at an ambient temperature of to 15-60 C in a dray and clean environment.
- This LED product must not be disposed of as standard waste, it is to be collected or brought to a recycling center for proper disposal and environmental treatment.