



MODEL F
USER MANUAL



Shenzhen Light On Technology Co., Ltd.
Version 2012

Thank you for purchasing our product. This manual will guide you through the installation and mounting process of the LIGHTON 600W Foldable LED Grow Light. Please read and understand this manual in its entirety before using the product. Only use this product as specified within this manual.

IMPORTANT SAFETY PRECAUTIONS

- Please read this manual thoroughly before attempting to install or operate any Model F foldable LED grow lighting fixture.
- After successful installation and configuration of the fixture, be sure to retain this manual in a safe place for future reference. Safety is a key component to a long lasting and trouble-free installation.
- It is important you read, fully understand and observe the subsequent safety precautions. If you are not comfortable with the installation of high performance lighting systems, you should seek the services of a qualified installation professional or call us for help.
- NOTICE: The LED are high-performance lighting component. Do not touch while in operation.
- Connect the system only to the power sources of the appropriate voltage using the AC plug type received. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the unit. Only connect the fixture to an electrical outlet or extension cord of appropriate type and rating. Connect the fixture only to the power sources of the correct voltage using the plug received.
- DO NOT defeat the safety purpose of a grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has two blades, one wider than the other. A grounding plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug doesn't fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.
- The lighting fixture should only be cleaned as directed in the manual. You should never clean the fixture when the following situation occurs:
 1. The power supply cord or the plug has been damaged.
 2. The unit has been exposed to rain.
 3. The unit exhibits a marked change in performance.
 4. The unit has been dropped, or its enclosure or chassis is damaged.

CULTIVATION BEST PRACTICES

Encourage everyone to experiment and pursue their own techniques. Every crop is different and everyone has different goals. However, our internal research has given us insight into several strategies we would like to share.

- Regularly check your plants' growth and health. Our ALED grow lighting fixtures deliver high levels of PAR, typically more than experienced in nature.
- Adjustments to H₂O, CO₂, RH, nutrients, and temperature are typically required.
- Mount the fixture at least 6" from the top of your canopy to ensure optimal uniformity and consistent PPFD. The LED fixture was designed to provide uniform light dispersion and requires precise deployment.
- Many plants prefer higher temperatures when exposed to high PPFD. Experiment with higher temperatures to achieve higher yields. Canopy temperature and room ambient temperature often vary. For accurate results, test at the canopy level to gauge leaf surface temperature.

GENERAL CARE

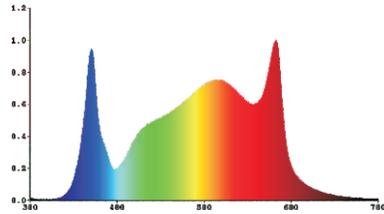
Our LED grow lighting fixture is passively cooled with zero moving components. They are designed for harsh environments and years of maintenance-free performance. Some basic care will keep your system operating at peak performance cycle-after-cycle.

- Natural convection removes heat away from the heatsink. In order for the fixture to properly cool itself, at least an inch of space is required between the console and the roof of your grow area. Failure to do so may shorten the fixture's lifespan.
- To achieve the optimal lifespan and performance of your fixtures, routinely check for and remove excess dust, debris, and mineral build up from heatsink and LED array. Cleaning should always be done with the fixture unplugged from its power source using low-pressure compressed air or water to rinse away dirt from light bars.
- Never use a cloth to clean the diode array. Doing so can scratch or compromise the integrity of the silicon seal, or dislodge diodes entirely.
- To limit degradation, avoid touching the diodes with your hands, even in a powered off state.

PRODUCT DESCRIPTION

The Model F LED grow lighting fixture is a high efficiency LED designed for multi or single level cultivation of cannabis and other crops that require high light level. It is more than 50% higher in PPF compared with HID lamps but 37% lower power consumption than HID lamps. The bar configuration of the fixture allows you to mount this light source in low rooms, on vertical racks, over rolling benches or even in tents.

PRODUCT SPECIFICATIONS



Physical	
Total length	1184mm
Total Width	1143mm
Total Height	29mm
Total Weight	10.6kg(driver excluded)
Performance	
Input Voltage	100-277V
Input Current	2.17A @277V
Input Power	600W
Power Factor	>0.95
Thermal management	Passive
Lifetime	50000 hrs
Power Cord	1.5m
Performance Requirements	
Efficacy	2.4-3.0umol/j
PPF	1440-1680umol/s
Dimming	0-10V knob dimming
Coverage	5*5 at flowering

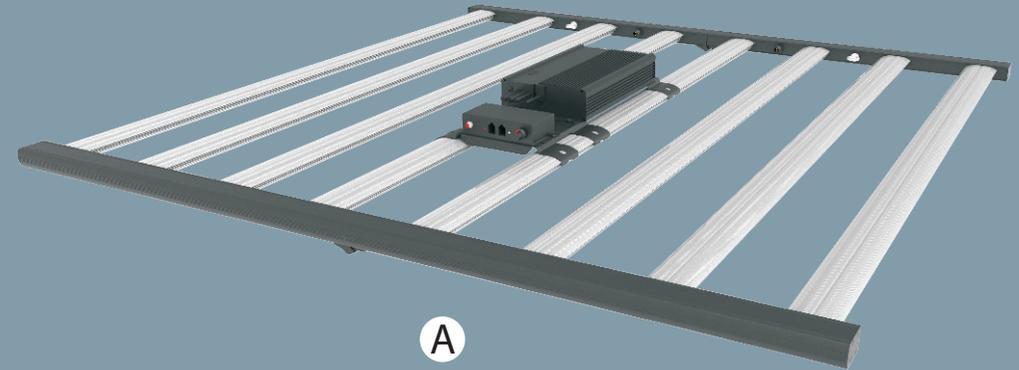


LED solutions are high-performance lighting systems. Do not touch while in operation. Last and most important, please recycle all packaging material. Future generations will thank you.

FIXTURE HARDWARE & ACCESSORIES

Pre-configured 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. 1/8" Rope Ratchet x2



180 DEGREE FOLDABLE

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



SMART CONTROL SYSTEM

0-10V dimming feature can make your lighting system much smarter and easier.

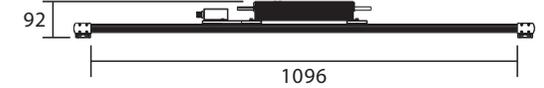
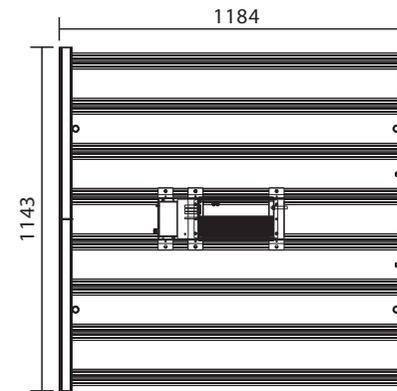


WARNING

Risk of electrical shock. To reduce the possibility of serious injury, always take the proper precautions and unplug the fixture before installing, moving or cleaning.

Fixture and power supply are UL 1598 Wet Location rated but are not designed to be submerged in water. In the event that the module or power supply enclosure becomes submersed, first disengage the circuit breaker, then unplug submersed components before proceeding to remove from water.

DIMENSION



Unit:mm

CAUTION

To prevent eye damage, avoid looking directly at the unshielded LEDs. LED and heat sink surfaces may be hot. Allow sufficient cooling time before handling.

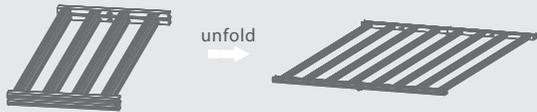
To reduce the risk of over heating or fire, never place operating fixture face down on a flush surface. always allow for adequate ventilation of fixtures and power supplies.

INSTALLATION INSTRUCTION

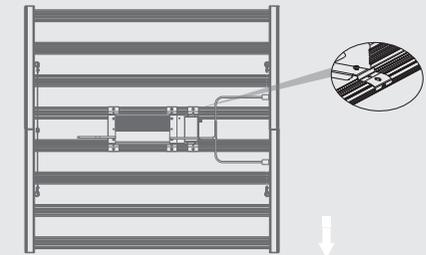
(Be sure that the light fixture is unplugged from the power source before installation.)



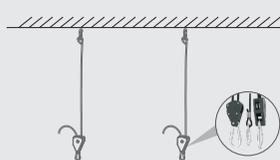
STEP 1: Take out the light fixture from the box, unfold it and place it horizontal at 180 degrees. At the same time, get the driver ready for installation.



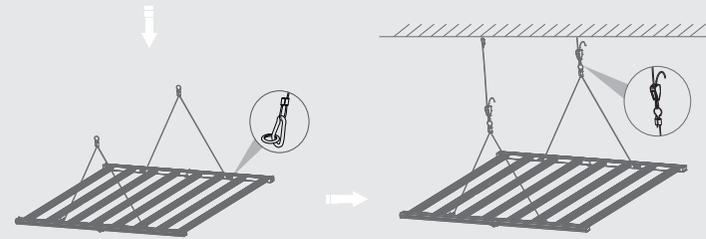
STEP 3: Clip the driver holder on the bars or hang it on the racks. (Normally the driver has been fixed onto the driver holder before shipment.)



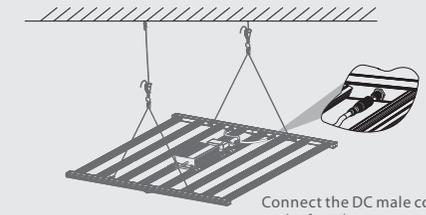
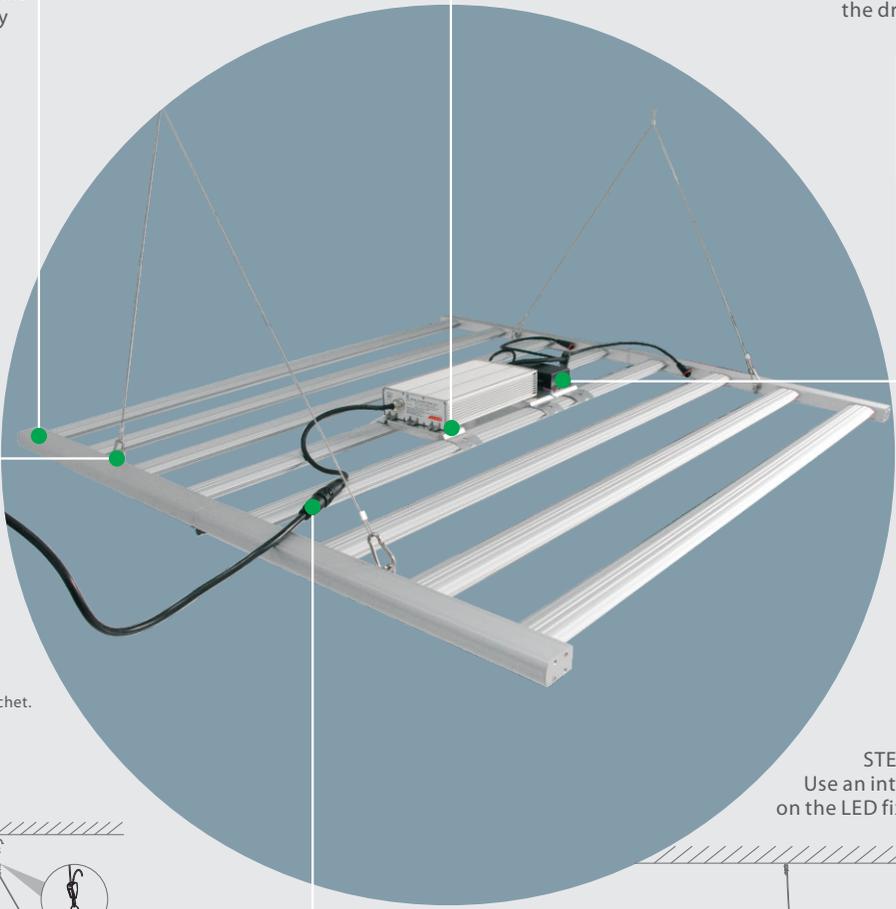
STEP 2: Fix the rope in/on the ceiling, beam or somewhere else. Make sure to fix the rope to something that can hold the weight of the LED light fixture.



You can adjust the length of the rope by pressing the clip on the ratchet.



Locate the 4 eye bolts on the fixture and slide the lance hanger clips onto two opposing eye bolts. Be sure to hang from the center of the lance hanger.

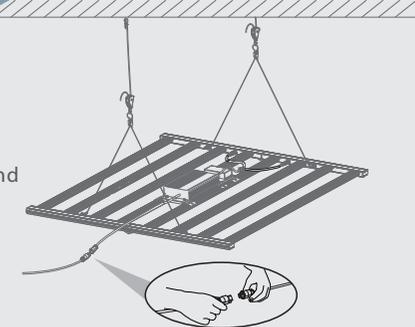


Connect the DC male connector to the female one.



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 Controller User Manual

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



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.

WARRANTY

All the products supplied by Light On Technology Co., Ltd are warranted against all manufacturing defects in material or workmanship for a period of three to five years. The date of the warranty shall apply to the date of the purchase of the initial product. For more detailed policy, please refer to the RMA section of the website at www.lightontechnology.com/RMA.



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