



GROWER'S CHOICE
HORTICULTURAL LIGHTING

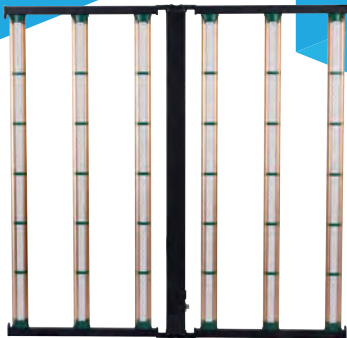


ROI-FF SERIES

LED USER MANUAL

Installation and Operating Instructions

PLEASE READ
THESE INSTRUCTIONS
BEFORE USING
THE PRODUCT



INTRODUCTIONS:

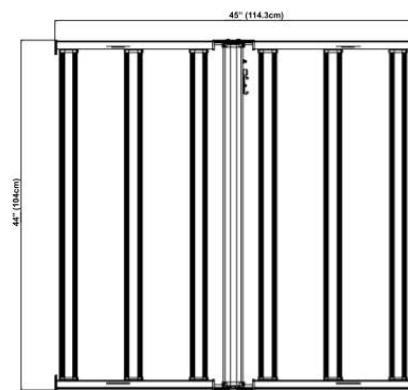
Growers Choice's latest LED lighting fixture, the ROI-FF-650, represents a significant advancement in indoor horticulture technology. With a power consumption of 650 watts and an impressive output of 1950 PPF, this fixture promises unparalleled efficiency (3.0) for commercial cannabis producers without red loading. Leveraging cutting-edge diode and driver technologies, the ROI-FF-650 delivers a 3k spectrum tailored to the specific needs of your flower rooms. Building upon Growers Choice's established expertise, this fixture maximizes both light output and spectrum quality while minimizing operational expenses. With the ROI-FF-650 growers can expect superior performance and enhanced yields, making it a standout choice in the realm of LED grow lighting solutions.

TECHNICAL SPECIFICATIONS:

SPECIFICATIONS	
Light Source	LED
Spectrum	GC-3K Full Phase
PPF	1950 $\mu\text{mol/s}$
Max Input Power	650W
Efficacy	3.0 $\mu\text{mol/s}$
Fixture Dimension Weight	45" L x 44" W x 4.2" H / 20lbs 114.3cm L x 104cm W x 11cm H / 9.9kg
Mounting Height	6" - 24" (15.2 - 61 cm) From canopy
Thermal Management	Passive
Dimming	0-10V
Light Distribution	120°
Lifetime	L90: >54,000 hrs
Power Factor	>90%
Certifications	IP 66, DLC, ETL
Warranty	5 Years Standard Warranty

MAX AMPERAGE BY VOLTAGE SERVICE

VOLTAGE	120V	240V	277V	480V
AMPERAGE	5.55A	2.8A	2.4A	1.4A



* PPF calculations complied using our in-house integrating sphere measurements and typical spectroradiometric data for each LED to determine the fixture performance. Actual photometric results may vary within the LED's manufacturer's bin tolerance.

* Wattage values are typical expected values. TSL Horti Tech maintains a tolerance of +/- 10% range on flux and power consumption. Target light level can vary from projected levels depending on ambient temperature, room reflections values, and other conditions.



SAFETY WARNINGS:

The ROI series LED system is passively cooled with absolutely no moving components. Do not try to open or disassemble the fixture, it contains no service parts inside. Doing so may cause harm to the fixture and void warranty.

- Always adhere to the local rules and regulations when installing or using the fixture.
- Wearing protective gloves and glasses is recommended during installation.
- Always disconnect from the mains before performing any maintenance to the fixture.
- The fixture will get hot during operation. Do not touch while the light is on. Keep this product away from children.
- Always allow at least 10 minutes for the fixture to cool down before handling.
- Do not touch the LED diodes.
- Keep the power cord away from hot surface.
- Do not plug this system into a supply voltage other than what is instructed on the fixture.
- Do not use the fixture when the power cord is damaged.
- Do not use the fixture when the unit has been dropped, or its enclosure or bars are damaged.



WARNING

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

WARNING

Light bars and power supply are splash-proof but not waterproof. In the event that the light bar becomes submersed, first disengage the circuit breaker, then unplug the fixture before proceeding to remove from water.



CAUTION

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

CAUTION

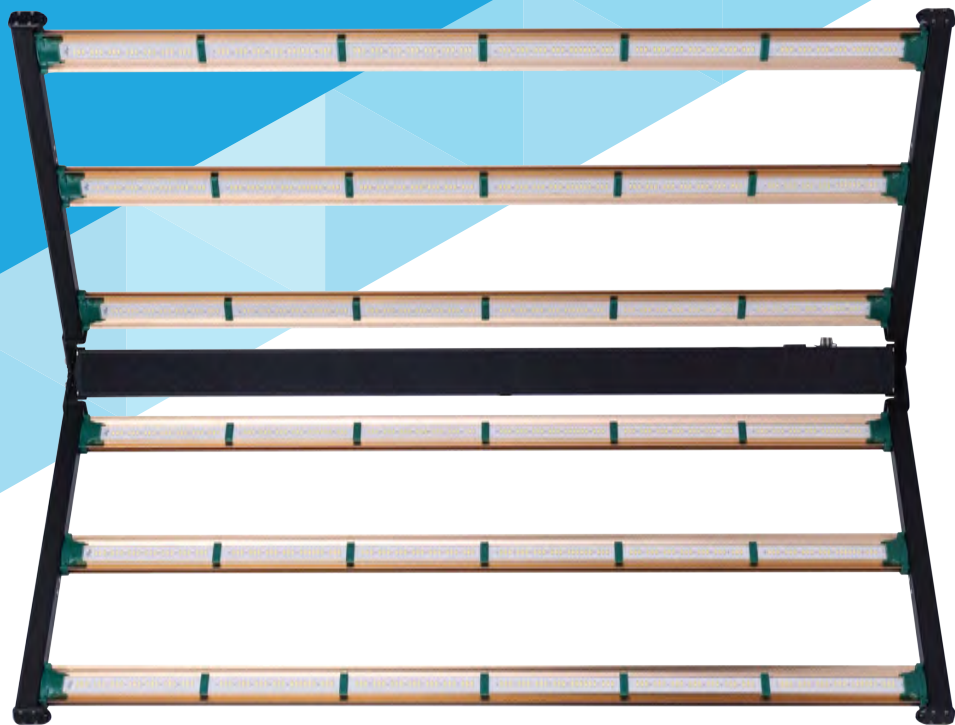
LED and heat sink surfaces may be hot. Allow sufficient cooling time before handling.

CAUTION

To prevent eye damage, avoid looking directly at the unshielded LEDs.

CAUTION – RISK OF PERSONAL INJURY

Disconnect power before servicing or installing luminaire. Lighted fixture may be hot. To reduce risk of injury, turn off or disconnect power and allow to cool before handling. Fixture must be grounded in accordance with appropriate codes. Failure to do so may result in serious injury or death. Be sure all power is off prior to installing fixture.



CONTENTS:

- ROI-FF Series LED System
- 1ft NEMA 6-15P 240V - M25 Plug
- RJ Data Cable
- 240V/120V Adaptor
- User Manual
- Rope Ratchet

Not Included:

- Lighting Controller

INSTALLATION:

- Switch off mains power
- We always recommend using certified or qualified installation professional to ensure optimal performance and safety.

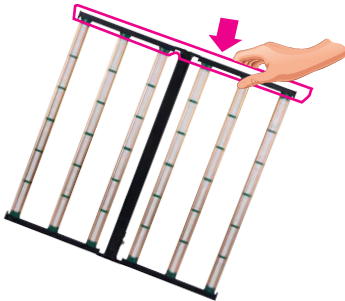


- Unbox fixture and place on flat, stable surface. ⚠

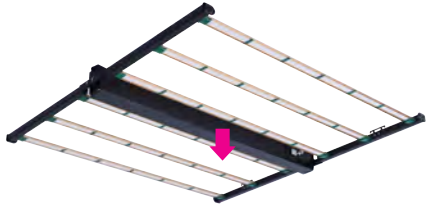


- Warning: Do not handle the fixture using the LED bars as it can result damage to the light and performance.

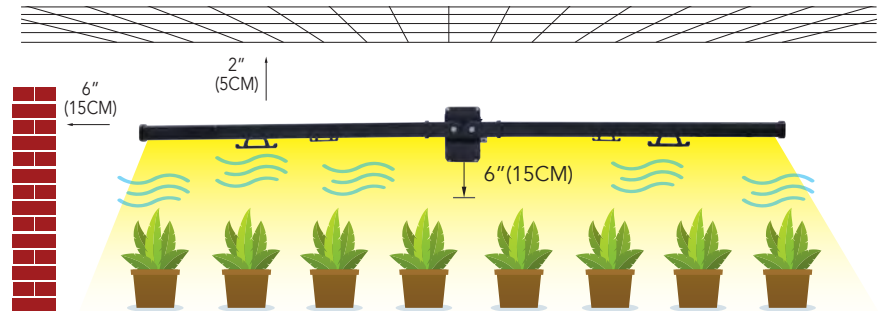
Only lift from the primary fixture structure as shown below.



- Unfold the fixture with LEDs facing down.



- The ROI Series can be mounted to the supporting structure or frame by suspending with carabiner cables (not provided) or other suspension means using the four mounting rings on the fixture. Maximum fixture weight: 44 lbs
- Mount the light bars at least 6" from the top of your canopy for optimal light efficiency and uniformity. Always allow for adequate ventilation of fixture. The rope ratchet kit provided with luminaire.



INSTALLATION:

- Inspect the contents for any obvious physical damage. If damage has occurred, contact the shipper of the hardware. If replacement part are required.

- Some minimum clearances around the grow environment are required for proper operation of the cooling system and to prevent over heating:

Ceiling clearance: 2"

Fixture to plants: 6"

Fixture to fixture clearance: 2"

Fixture to other objects: 6"

Fixture to wall clearance: 6"

- The maximum ambient temperature of the grow environment operation is 0 to 40°C.

Ensure that the maximum ambient temperature is not exceeded. A mechanical ventilation or cooling system is required to maintain temperatures within the growing space below 104°F (40°C) when the horticultural luminaire is in operation.

The Storage temperature range is -40°C to 70°C.

This unit is designed for damp locations.



• THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.



WARNING

DISCONNECT POWER BEFORE SERVICING. Hazardous voltages may be present when covers are removed. Qualified personnel must use extreme caution when servicing this equipment.

- Wiring must be in compliance with horticultural, local, and national standards and requirements. Before applying power to the light fixture, verify that your product is configured properly for your particular application.

The Greenhouse Light Fixture is shipped with a cord (whip) that is connected internally to the fixture. This cord is equipped with M25-Nema 6-15P

For proper connection of a Fixture shipped with a plug - ensure that the proper mating receptacle is available. Simply plug in fixture to this receptacle.

- When wiring the light fixture, ensure the following:

- Power is disable when connecting cords or plugs.

- Power cords are not concealed or extended through bulkheads, flooring, ceiling, or other parts of the building structure.

- Power cords are not located above the ceiling (including dropped ceilings)

- Power cords are not permanently attached to the building structure.

- Power cords are protected from physical damage.

- Power cords are not subjected to strain and are bearing weight of the fixture

- Power cords should be visible over the entire cable length.

- Power cords are used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.

WARRANTY:

Grower's Choice warrants the mechanical and electronic components of their product to be free of defects in material and workmanship if used under normal operating conditions for a period of five (5) years from the original date of purchase. If the product shows any defects within this period and that defect is not due to user error or improper use, Grower's Choice shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. Grower's Choice warranty liability extends only to the replacement cost of the product. In case Grower's Choice decides to replace the entire product, the limited warranty shall apply to the replacement product for the remaining initial warranty period.

Grower's Choice shall not be held responsible for any damage caused by the operation of the unit, be it incidental or consequential or any type including, without limitation, damage or injury caused to other products or machinery or buildings. Nor will responsibility be accepted for loss of time or profit, loss of finished product, or for any inconvenience caused in any way whatsoever.





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ROI-EFF LED System Instructions revised - October 24, 2025