

# **GREENHOUSE V2.0**

## **USER MANUAL**

600W LIGHT FIXTURE -1000W EQUIVELANT GROW LIGHT

**2021**





## **About CABA Tech**

CABATech LLC (“CABA”) provides end-to-end LED Lighting Solutions for your company – standard or fully-customized, based on our proven technologies or your proprietary designs.

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## **Date and Revision**

April 2020 Revision A

## **Part Number**

CT141

## **Contact Information**

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# IMPORTANT SAFETY INSTRUCTIONS

Before applying power to the light fixture, verify that your product is configured properly for your specific application.



## DISCONNECT POWER BEFORE SERVICING.

**Hazardous voltages may be present when covers are removed. Qualified personnel must use extreme caution when servicing this equipment.**

Only *qualified personnel* who deal with attendant hazards with lighting fixtures, are allowed to perform installation and servicing.

Guard against risks of electrical shock during open cover checks by not touching any portion of the electrical circuits. Use safety glasses during open cover checks to avoid personal injury by any sudden component failure.

Neither CABATech, LLC, nor any of the subsidiary sales organizations can accept any responsibility for personnel, material or inconsequential injury, loss or damage that results from improper use of the equipment and accessories.

## SAFETY SYMBOLS



WARNING  
Risk of Electrical Shock



CAUTION  
Refer to Accompanying Documents



Off (Supply)



Direct Current (DC)



Standby (Supply)



Alternating Current (AC)



On (Supply)



Three-Phase Alternating Current



Protective Conductor Terminal



Earth (Ground) Terminal



Fuse



Chassis Ground

## WARRANTY TERMS

PRODUCT: Greenhouse, 600W Grow Fixture

WARRANTY PERIOD: 5 Years

CABA Tech, LLC, provides this written warranty covering the Product stated above, and if the Buyer discovers and notifies CABA Tech in writing of any defect in material or workmanship within the applicable warranty period stated above, then CABA Tech may, at its option: repair or replace the Product; or issue a credit note for the defective Product; or provide the Buyer with replacement parts for the Product.

The Buyer will, at its expense, return the defective Product or parts thereof to CABA Tech in accordance with the return procedure specified below. CABA Tech will, at its expense, deliver the repaired or replaced Product or parts to the Buyer. Any warranty of CABA Tech will not apply if the Buyer is in default under the Purchase Order Agreement or where the Product or any part thereof:

- is damaged by misuse, accident, negligence or failure to maintain the same as specified or required by CABA Tech;
- is damaged by modifications, alterations or attachments thereto which are not authorized by CABA Tech;
- is installed or operated contrary to the instructions of CABA Tech;
- is opened, modified or disassembled in any way without CABA Tech's consent; or
- is used in combination with items, articles or materials not authorized by CABA Tech.

The Buyer may not assert any claim that the Products are not in conformity with any warranty until the Buyer has made all payments to CABA Tech provided for in the Purchase Order Agreement.

## PRODUCT RETURN PROCEDURE

Request a Return Material Authorization (RMA) number CABA Tech.

- Contact CABA Tech prior to the return of the product to CABA Tech for repair:  
Telephone: 800-853-7606 (toll free North America)  
Email: [info@cabatech.com](mailto:info@cabatech.com)
- When requesting an RMA, have the following information ready:
  - Model number
  - Description of the problem

**NOTE:** Unauthorized returns will not be accepted and will be returned at the shipper's expense.

**NOTE:** A returned product found upon inspection by CABA Tech, to be in specification is subject to an evaluation fee and applicable freight charges.



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## **1.0 INTRODUCTION**

The CABA Greenhouse delivers 650W of light and provides equivalent PPDF and coverage as a 1000W DE fixture.

The CABA Greenhouse is design and certified for damp indoor Horticultural applications only. It is not designed for outdoor or for wet applications.

## **2.0 FEATURES**

- Industry Leading Performance
- Replaces a 1000W DE 1:1
- Patented Spectrum
- Natural White Light
- Tuneable Spectrum
- Patented Thermal Solution
- Ideally Suited for GH Supplemental
- Powder Coated Aluminium Housing
- Made in the USA



### 3.0 TECHNICAL INFORMATION

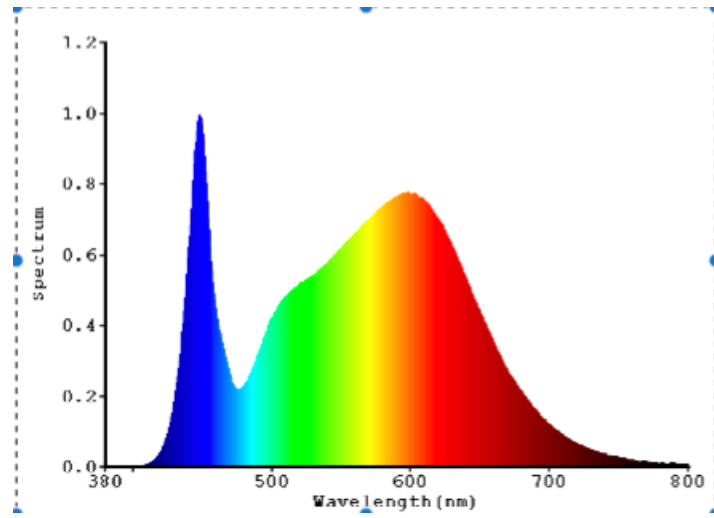
The Greenhouse options are listed in the table below.

FAMILY	POWER	SPECTRUM	CORD	AC PLUG	MOUNTING
<b>CT141</b>	<b>640</b>	<b>B = Bloom</b> <b>V = Veg</b> <b>U = Universal</b>	<b>8 = 8' open whip</b> <b>10 = 10' open whip</b>	<b>N5 = 5-15P</b> <b>N6 = 6-15P</b> <b>L7 = L7-15P</b> <b>X = no plug</b>	<b>VR = Ratcheting Hanger</b> <b>S = S-Hook and Chain</b>

**CABA PART NUMBER: CT141**

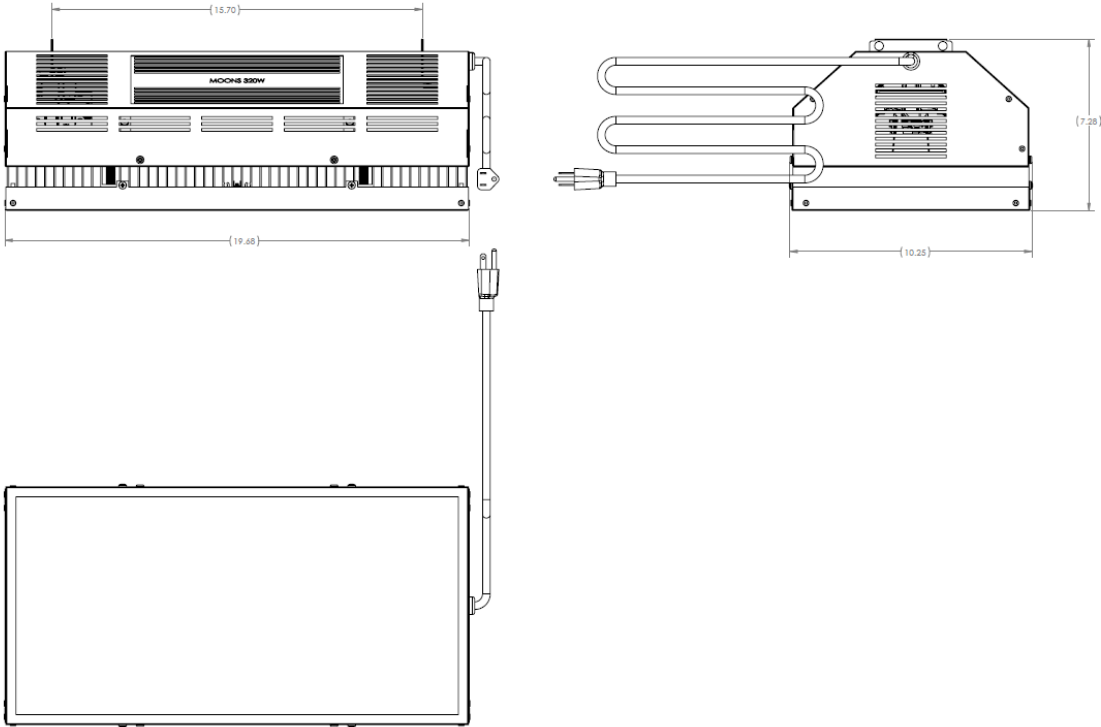
### 4.0 TECHNICAL SPECIFICATIONS

Light Source	LED
Spectra	Patented 5150
Efficacy	2.0 uMol/J
PPF	1280 uMol/J
Input Power	650W
Input Voltage	100-277VAC   100-240VAC
AC Input Current (Max)	8.0A at 100Vac input, 3.8A at 200Vac
Input Frequency	50/60 Hz
Weight	23 lbs.
Dimensions (L x W x H)	20" x 10" x 6.75"
Minimum Mounting Height	36"
Operating Temperature	0 to 40°C
Thermal Management	Active Fan Cooling
Dimming	0-10V / PPM
Lifetime per TM21 L70 / L90	80K hrs. / 25K hrs.



# 5.0 MECHANICAL SPECIFICATIONS

The Greenhouse Light Fixture dimensions are depicted in the figure below.



## 6.0 INSTALLATION

### 6.1 UNPACKING AND INSPECTION

The Greenhouse Light Fixture is packaged for shipping. Remove the packaging from the fixture. Inspect the contents for any obvious physical damage. If damage has occurred, contact the shipper of the hardware. If replacement parts are required, please contact CABATech at 1-800-853-7606 or by email: [info@cabatech.com](mailto:info@cabatech.com).

### 6.2 ENVIRONMENTAL REQUIREMENTS

#### 6.2.1 CLEARANCES

Some minimum clearances around the Greenhouse are required for proper operation of the cooling system and to prevent overheating:

<i>CEILING CLEARANCE:</i>	<i>6"</i>
<i>FIXTURE TO FIXTURE CLEARANCE:</i>	<i>24"</i>
<i>FIXTURE TO WALL CLEARANCE:</i>	<i>24"</i>
<i>FIXTURE TO PLANTS:</i>	<i>36"</i>
<i>FIXTURE TO OTHER OBJECTS:</i>	<i>24"</i>

#### 6.2.2 TEMPERATURE AND HUMIDITY

The maximum ambient temperature for the **Greenhouse** for normal operation is 0 to 40°C.

Ensure that the maximum ambient temperature is not exceeded. A mechanical ventilation or cooling system may be 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.

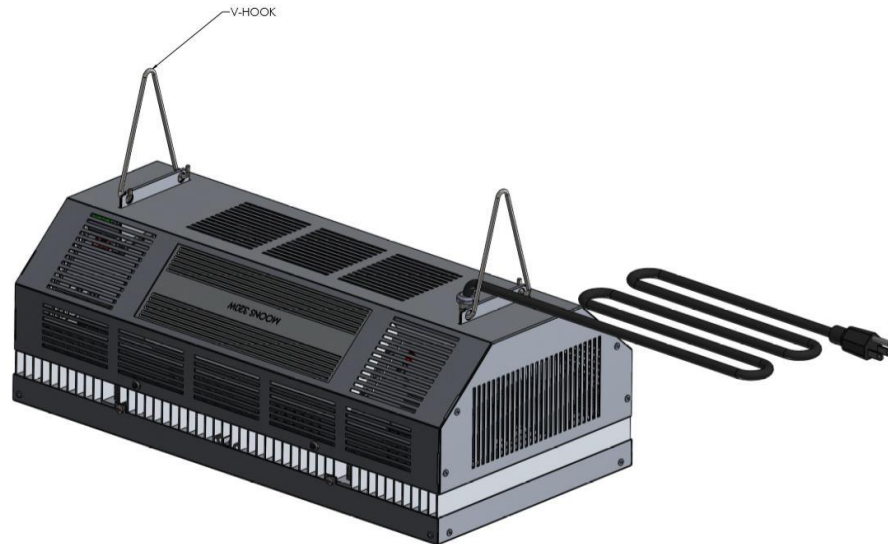
This unit is designed for operation in damp locations.

## 6.3 MOUNTING

V-Hooks are shipped with the product for mounting purposes. The V-Hooks are used to hold the fixture and provide a means to connect to suspension chain or cabling.

To mount the fixture:

1. Place each V Hook into the Greenhouse fixture as shown below



2. Suspend Fixture with Customer/Vendor supplied cable or chain using the V Hooks.

### CAUTION:

- Ensure suspension cable or chain can support 15 lbs.
- Ensure structure in which the suspension cable/chain is mounted to can support 15 lbs.
- Ensure that the proper clearances are obtained (refer to Clearance in the Environmental Requirement section above).

## 6.4 ELECTRICAL CONNECTION

**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**



**DISCONNECT POWER BEFORE SERVICING.**

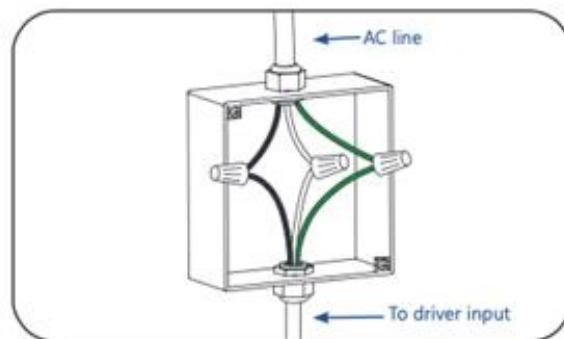
**Hazardous voltages may be present when covers are removed. Qualified personnel must use extreme caution when servicing this equipment.**

Wiring must follow horticultural, local, and national standards and requirements. Before applying power to the light fixture, verify that your product is configured properly for your specific application.

The **Greenhouse Light Fixture** is shipped with a cord (whip) that is connected internally to the fixture. This cord is equipped with or without a plug connector depending upon options ordered.

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.

For proper connection of a whip please refer to the depiction below:



Connect the green wire to the incoming ground conductor. Connect the black wire to Line 1 and white wires to Neutral or Line 2 of the incoming AC line.

When wiring the light fixture, ensure the following:

- Power is disabled 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