Gavita® Under Canopy 150W LED 120 - 277 V

1 Introduction

Thank you for purchasing the Gavita® Under Canopy 150W LED. This manual describes mounting, installation and how to use the product. Mounting and installation of the LED fixture may only be executed by certified service personnel. Please read and understand this manual completely before using the product. Only use the product as specified in this manual.

Please note that failure to follow directions related to installation, use and/or maintenance may result in serious injury, death, or property damage and will void the warranty, and the purchaser will be responsible for any and all repairs and/or damages incurred.

1.1 Used Symbols

Warning! A warning indicates severe damage to the user and/or product may occur when a procedure is not carried out as described.

Caution! A caution sign indicates problems may occur if a procedure is not carried out as described. It may also serve as a reminder to the user.

Note: A note gives additional information, e.g. for a procedure.

This symbol is an internationally recognized symbol used to designate recyclable materials.

This symbol is an authorized use mark employed on electronic products manufactured or sold in the United States, which indicates that the electromagnetic emissions from the device have been measured to be under the limits published by the Federal Communications Commission. The FCC logo is a mark that declares that the equipment is authorized to market and operate under the FCC's SDOC procedure.

This symbol shows that a product has been independently tested and certified to meet recognized standards for safety.

This symbol on material, accessories or packaging indicates that this product may not be discarded as household waste. By properly disposing the equipment, you will be helping to prevent possible risks to the environment and public health, which might otherwise be caused by improper handling of the discarded equipment. Recycling of materials contributes to the conservation of natural resources. Therefore, please do not dispose of old electronics and electrical appliances via household waste.



This symbol indicates the minimum distance (B) between the LED fixture (A) and combustible materials.

2 Product description

The Gavita® Under Canopy 150W LED is an electronic horticultural LED fixture. It is a single LED bar that can be used as a stand-alone supplemental light source or in addition to other Gavita® LED fixtures. The Gavita® Under Canopy 150W LED is intended to be used in greenhouses or in climate rooms. In this manual, the Gavita® Under Canopy 150W LED will be referred to as: "'the LED fixture".

3 Product information and specifications

3.1 General product information

Product name	Gavita® Under Canopy 150W LED 120 - 277 V
Manufacturer	Hawthorne Gardening Company
Part number	HGC907092
UPC	849969001792
Plug type	NEMA 5-15P, 6-15P and L7-15P

3.2 Technical specifications

Input voltage:	120 - 277 V			
Input wattage:	150 W			
PPF:	450 umol/s			
Input Current - 100%:	1.31 A- 0.57 A			
Certification standards	Conforms to ANSI/UL STD 1598. Conforms to ANSI/CAN/UL STD 8800, Certified to CSA C22.2 No. 250.0			
Frequency:	50-60 Hz			
Power factor (cosø):	>0.90			
Operating temperature:	0-40° C			
Environmental rating:	IP66*, Suitable for Wet Locations; suitable for dusty and wet (by water spray) locations.			
Weight:	6.39 lbs/2. 9 kg			
Dimensions:	45.12" L X 2. 99" W X 3.19" H / 114.6 x 7.6 x 8.1 cm			
Certifications:	ETL / FCC / CAN ICES-005 (B) / NMB-005 (B)			
Voltage:	120 V	208 V	240 V	277 V
Current:	1.31 A	0.74 A	0.67 A	0.57 A
Max No. of Fixtures Power Daisy Chain	6 LEDs	10 LEDs	11 LEDs	14 LEDs

*Self declared IP rating. (Must prevent lumaire and all cords/connections from immersion or contact with standing water/nutrient solution.)

3.3 Environment

The product is intended to be used in greenhouses and climate rooms. The product can be used in wet environments. The product may not be used outdoors. The Gavita® Under Canopy 150W LED functions optimally when the ambient temperature is between 32 - 104° F / 0 - 40° C. This luminaire is suitable for operation in an ambient temperature not exceeding 40°C. This should be the maximum sustained temperature of the installed environment [ambient temperature] that will ensure safe operation of the lighting equipment. To prevent sustained temperatures above a 40°C ambient a mechanical ventilation or cooling system is required to maintain the temperature within the growing space at or below 40°C when the luminaire is in operation.

3.4 Legal

Conforms to ANSI/UL STD 1598, Conforms to ANSI/CAN/UL STD 8800, Certified to CSA C22.2 No. 250.0

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

⚠ **CAUTION** – Changes or modifications not expressly approved by the party responsible for compliance could void the user·s authority to operate the equipment.

4 Safety recommendations and warnings

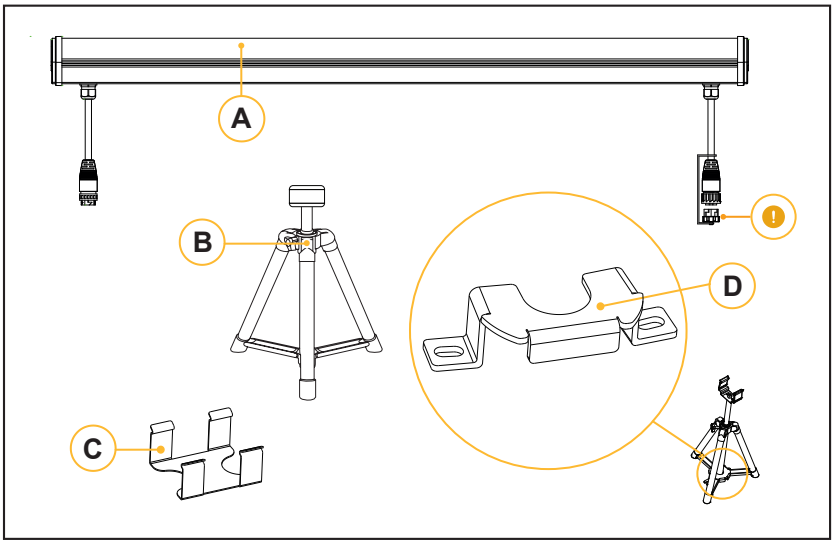
⚠ **Warning!** Carefully read the warnings below before using or working with the product!

- Always adhere to local rules and regulations when installing or using the LED fixture.
- Do not open or disassemble the LED fixture; there are no serviceable parts inside. Opening or modifying the LED fixture can be dangerous and will void the warranty.
- This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz.
- Do not use the LED fixture when either the LED fixture or its power cord are damaged. Replace the power cord only with original certified cords.
- Modifications to the cords can lead to unwanted electromagnetic effects, which makes the product not comply with legal requirements.
- Do not expose the LED fixture to:
  - immersion or contact with standing water / nutrient solution
  - (ambient) temperatures outside the specified range;
  - dust and contamination;
  - direct sunlight during use or HID light that could heat up the fixture.
- Always disconnect the LED fixture from mains before performing any maintenance.
- Always allow for a cool down period of at least 5 minutes before touching the luminaire. Touching the luminaire when the fixture is lit or immediately afterward can result in burns!
- Do not use the LED fixture near flammable, explosive or reactive substances. Do not use sulfur vaporizers or water misters.
- The installation and use of the LED fixture is the responsibility of the end user. Incorrect use or installation can lead to failure and damage to the LED fixture.

Damage to the LED fixture and electronic circuitry as a result of incorrect installation and use revokes the warranty.

5 Contents (1)

A. Gavita® Under Canopy 150W LED (1x)
B. Telescoping Mount (2x)
C. Splicing Bracket (1x)
D. Bracket for Securing Telescoping Mounts (2x)





When not daisy-chained to another unit, the connector must be sealed with the provided protective cap

⚠ **CAUTION - PROPRIETARY WIRING SYSTEM.** Use Hawthorne cord set model HGC907093, HGC907094, and HGC907095 only for connection from the luminaire power inlet to a standard junction box for power connection. Use Hawthorne luminaire interconnecting extension cord set model HGC907096 for connection between luminaires.

⚠ **MISE EN GARDE - SYSTÈME DE CÂBLAGE EXCLUSIF.** Utilisez l'ensemble de cordons Hawthorne modèles HGC907093, HGC907094 et HGC907095 uniquement pour le branchement de l'entrée d'alimentation du dispositif à une boîte de jonction standard pour alimenter le dispositif. Utilisez l'ensemble de cordons prolongateurs interconnectés modèle HGC907096 pour brancher ensemble des dispositifs d'éclairage.

Note: Ensure that the power supply cords, extensions cords, and power cordsets

1) Are not concealed or extended through a wall, floor, ceiling, or other parts of the building structure;
2) Are not located above a suspended ceiling or dropped ceiling;
3) Are not permanently affixed to the building structure;
4) Are routed so that they are not subject to strain and are protected from physical damage;
5) Are visible over their entire length; and
6) Are used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.

6 Installation

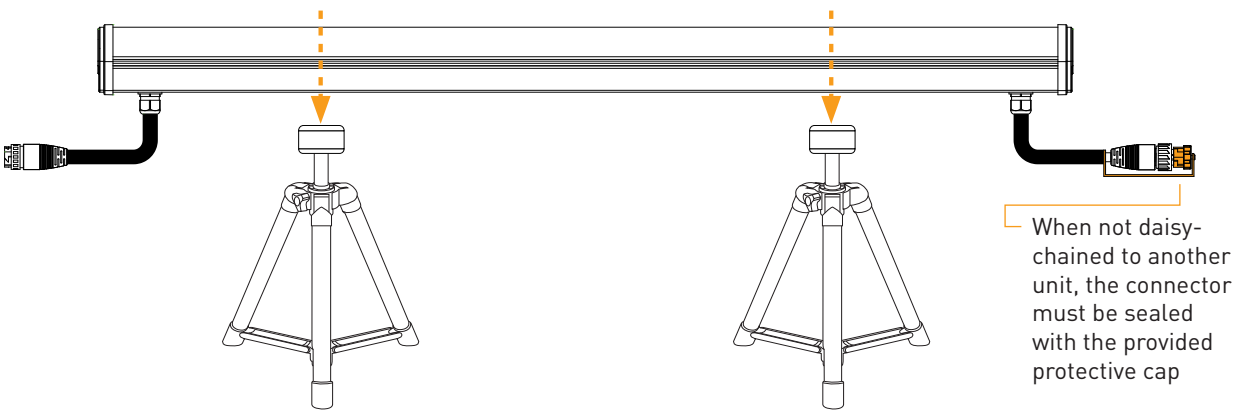
⚠ **Warning!** Mounting and installation of the LED fixture may only be executed by certified service personnel, in accordance with applicable local laws and regulations, and are intended for installation subject to approval by the authority having jurisdiction.
⚠ **Warning!** The installer is responsible for correct and safe installation.
⚠ **Warning!** Ensure the local cabling can support the voltage and current requirements of the LED fixture.
⚠ **Warning!** Avoid coiled cords and keep mains leads separated. This prevents electromagnetic interference.
⚠ **Warning!** Do not connect or disconnect the LED fixture under load.
⚠ **Warning!** Ensure all connections are fully connected.
Install with a minimum distance of 10 cm between adjacent lighting equipment and between the lighting equipment and combustible materials, walls, ceilings, movable partitions, and the like to prevent overheating of lighting equipment or combustible materials within the installation environment.

6.1 Installation preparations

⚠ **Warning!** When mounting, attach the fixture to something that can support its entire weight.
- Switch off mains power.

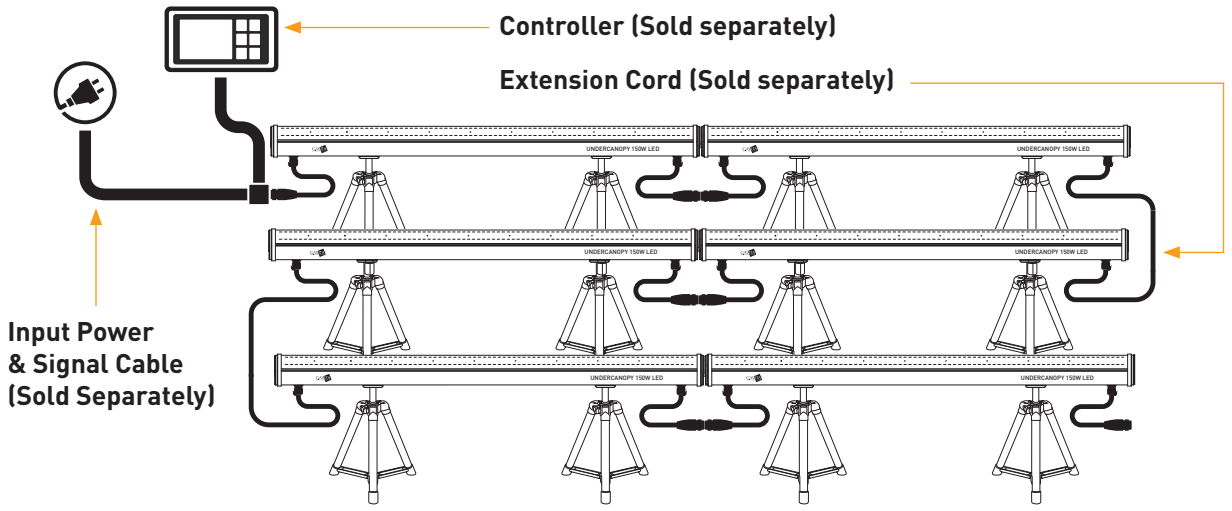
6.2 Installing the LED fixture

- Clip in the LED fixture on the mounting stands.
- Securely attach the telescoping mount to the supporting surface using the supplied mounting brackets.



Connecting Multiple Units

- Connect the output of LED 1 into the input of LED 2 when connecting inline. For longer connections use the 3ft Extension Cord [sold separately]. Once all connections are made and the liminaires are in their desired location secure the tripods to the mounting surface using the provided tripod mounting bracket. Once all connections are made, use the Input Power & Signal Cable to turn on and control LEDs.



⚠ **CAUTION: DO NOT** exceed the maximum number of Power Chain LEDs. Refer to product specifications for more information.
⚠ **WARNING:** After installation ensure that no cord connections are near the mounting surface that could result in immersion or contact with standing water/nutrient solution.

6.3 Connecting the LED fixture to the mains

⚠ **Warning!** DO NOT connect or disconnect lighting fixtures while under load (electrified).
⚠ **Warning!** Make sure mains power is switched off.
⚠ **Warning!** Ensure the cord is not coiled and does not touch any hot surfaces.
⚠ **Warning!** Connect the power supply cords, power cord sets, and extensions cords according to local rules, safety regulations and electrical code.
⚠ **Warning!** Ensure external switching gear can cope with the inrush current of the LED fixture. Always use a double-pole contactor suitable for switching a capacitive load. Never use household timers to switch the LED fixture!
CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.

(GFCI) Ground Fault Circuit Interrupter troubleshooting guide

No	Problem	Possible Cause	Solutions
1	GFCI trips	Too many luminaires daisy chained.	Adjust to maximum allowable luminaires as per the technical specifications (section 3.2 of this document) **WARNING:** Do not disconnect luminaires while energized.
2	GFCI trips	Leakage current exceeds the GFCI trip current.	Replace the GFCI (Class A) with a SPGFCI (Class C).
3	GFCI trips or Replaced SPGFCI from #2 trips	One or more luminaires in the daisy chain is defective and has a ground fault.	Replace each luminaire individually with another luminaire until the GFCI does not trip. Dispose of or return defective luminaire. If GFCI still trips see #1 or #2. **WARNING:** Do not disconnect luminaires while energized.

⚠ **Warning!** Each branch circuit must provide the required GFCI or SPGFCI in accordance with the National Electric Code, NFPA 70 clause 410.184, or provide GFCI protection in accordance with the applicable local code. If the GFCI trips when daisy chaining no more than the maximum allowed luminaires then replace the Class A GFCI with a Class C GFCI if permitted by the local code.

- Connect the power cord set to the mains. The Gavita® Under Canopy 150W LED power cord sets connect to a NEMA receptacle.

Wiring to power cord set plugs. Gavita® Under Canopy 150W LED:

Wire	120 V, 277 V	208V, 240 V
White	Neutral (N)	Phase (L1)
Black	Phase (L)	Phase (L2)
Green	Ground (⏚)	Ground (⏚)

- Switch on mains power.

7 Photobiological Safety

⚠ **CAUTION -** Caution Possibly hazardous optical radiation emitted from this product.
Do not stare at operating lamp. May be harmful to the eyes.

NOTICE - UV EMITTED FROM THIS PRODUCT. MINIMIZE EXPOSURE TO EYES AND SKIN. USE APPROPRIATE SHIELDING.

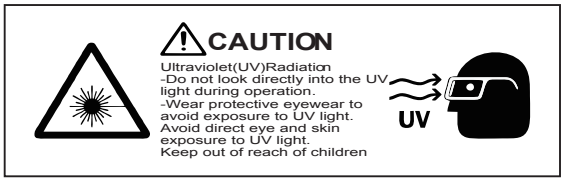
⚠ **MISE EN GARDE -** Avertissement Le produit peut possiblement émettre un rayonnement optique dangereux. Éviter de regarder directement le dispositif d'éclairage allumé. Cela peut être néfaste pour les yeux.

Photobiological safety assessment: Risk Group 1
Évaluation de la sécurité photobiologique: Groupe de risque 1

These photobiological safety markings are based on testing of the light output characteristic of a single horticultural luminaire. Increased exposure risk to facility personnel may be present depending upon the number of horticultural luminaires and their placement and/or positioning within the plant growth facility. It is the responsibility of the plant growth facility to address these risks at the facility level and to ensure that people entering the plant growth areas while the lights are on, are aware of these risks and that appropriate safeguards are in place.

8 Precautions when using the LED fixture

⚠ **Warning!** Always wait 5 minutes for the luminaire to cool down!



9 Storage and disposal

- Store the LED fixture in a dry and clean environment, with an ambient temperature of -40-185° F / -40 - 70° C.
- The product must not be discarded as unsorted municipal waste, but must be collected separately for the purpose of treatment, recovery and environmentally sound disposal.

10 LIMITED WARRANTY:

When purchased from an authorized Hawthorne dealer, this product is covered by a LIMITED WARRANTY, available at hawthornegc.com/warranties. You can also obtain the Terms of Sale and Limited Warranty by calling Hawthorne toll-free at: 1-888-478-6544 or writing Hawthorne at: Hawthorne Hydroponics LLC, 2300 Chabot Ct. Tracy, CA 95304, Attn: Customer Service.

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