











# Gavita Pro 270° LEP US Industrial

## 1. Introduction

Thank you for purchasing the Gavita Pro 270° LEP US Industrial. Please read and understand this manual completely before using the product. Only use the product as specified in this manual.

### 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 indicates that the fixture should be installed in a way that there is down light only. The operating position should be vertical +/- 30° around the long side axis.
-  This symbol indicates that the parts of the fixture can reach very high temperatures (>85 °Celsius / >185 °Fahrenheit). Mind a cool down period before performing maintenance.
-  This symbol indicates that any cracked protective shield should be replaced.
-  The symbol on the material, accessories or packaging indicates that this product may not be discarded as household waste. By disposing of the equipment in the proper way, 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 your old electronics and electrical appliances via household waste.
-  This symbol is an International byly recognized symbol used to designate recyclable materials.
-  This symbol is a certification mark employed on electronic products manufactured or sold in the United States which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.
-  This symbol shows that a product has been independently tested and certified to meet recognized standards for safety or performance.

## 2. Product description

The Gavita Pro 270° LEP US Industrial is a horticultural fixture and can also be used in any environment when a high quality, full continuous light source has advantages.

The Gavita Pro 270° LEP US Industrial is an e-series product. It can be remotely activated by a Gavita Master controller. The Master controller can automatically activate and deactivate fixtures during a 24 hour cycle. The Master controller also offers a temperature safety feature, deactivating connected fixtures when the temperature in a climate room becomes too high.

In this manual, the Gavita Pro 270° LEP US Industrial will be referred to as: "the fixture".

## 3. Product information and specifications

### 3.1. General product information

Product name:	Gavita Pro 270° LEP Grow US		Gavita Pro 270° LEP Sup US	
Manufacturer:	Gavita International bv			
Version	Grow		Sup	
Input voltage	100-277 V	277-347 V	100-277 V	277-347 V
EAN Code	8718403051698	8718403052893	8718403051513	8718403052886
Part number	18.30.19.05.08	18.30.19.06.09	18.30.19.04.08	18.30.19.06.08
Lamp	GRO 41-02		GRO 41-01	
Plug type	Wieland RST20i3		Wieland RST20i3	

### 3.2. Technical specifications

Product weight	12.8 kg / 28.5 lbs	
Dimensions [L*W*H]	63.0 x 32.5 x 25.0 cm / 24.8 x 12.8 x 9.8"	
Temperature case	< 80 °Celsius / 176 °Fahrenheit	
Temperature ambient	0 ~ 35 °Celsius / 32 ~ 95 °Fahrenheit	
Input voltage +/-10%	100-277 Volt AC ±10%	277-347 Volt AC ±10%
Input current	2.8-1.1 Amps typical	1.1-0.7 Amps typical
Inrush current	150 Amps	
Power factor	0.96-0.99	
Total Harmonic Distortion	< 10%	
Frequency	50 - 60 Hz	
Certification	UL 1598 and CSA-C22.2 No. 250.0	
Insulation	Class 1 - requires an earth connection	
Power inlet	Wieland RST 20i3	
External control signal	Gavita Master controller analog protocol (0-11,5V) - see manual EL controller	
External dim connector	RJ connector built in (6P6C) On / off only. Dimming is not supported by the Master controller)	

### 3.3. Compatible products and accessories

	Product name	Gavita part number
Compatible Master controllers	Gavita Master Controller EL1	41.00.12.20
	Gavita Master Controller EL2	41.00.13.20
Compatible power plug	Wieland RST20i3 female	63.70.11.51
Compatible interconnect cables	Interconnect cable RJ, 0,6 meter / 2 ft	43.50.00.08
	Interconnect cable RJ, 1,5 meter / 5 ft	43.50.00.04
	Interconnect cable RJ, 2,4 meter / 8 ft	43.50.00.09
	Interconnect cable RJ, 3 meter / 10 ft	43.50.00.10
Compatible splitter	3 way RJ cable splitter	43.50.00.01

### 3.4. Environment

The product is meant for use in climate rooms. The product may be used in damp environments. The product may not be used in wet environments or outdoors.

### 3.5. Legal

This device complies with Part 18 of the FCC Rules (Class A).  
UL E346452 approved.

## 4. Safety recommendations and warnings

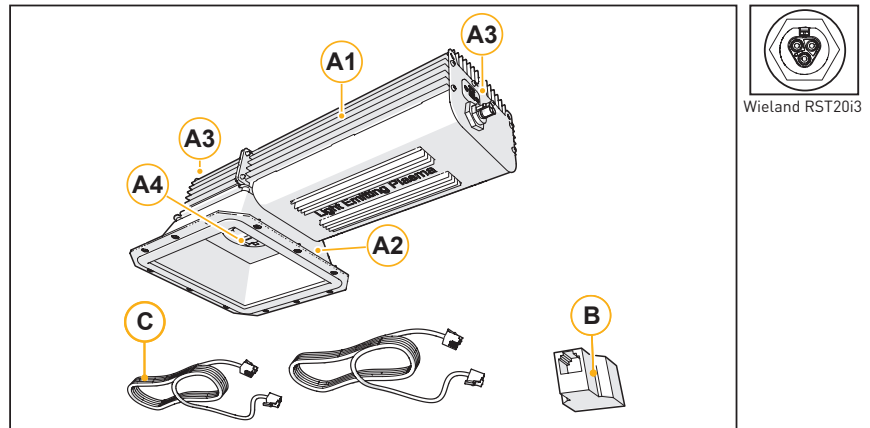
#### **Warning! Carefully read the warnings below before using or working with the product!**

- Always adhere to the local rules and regulations when installing or using the fixture.
- 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 fixture when its power cord is damaged. Replace the power cord only with original certified cords.
- Modifications to the power cord can lead to unwanted electromagnetic effects, which makes the product not comply with legal requirements.
- The fixture is supplied with a RJ dummy plug (image 2-B) plugged in. Do not remove the RJ dummy plug when using the fixture without a Master Controller. Remove and store the RJ dummy plug when connecting the fixture to a Master Controller.
- Do not expose the fixture to:
  - condensing humidity, heavy mist, fog or direct spray;
  - [ambient] temperatures outside the specified range;
  - dust and contamination;
  - direct sunlight during use or HID light that could heat up the ballast.
- Always disconnect the fixture from the mains before performing any maintenance.
- Always allow for a cool down period of at least 30 minutes before touching the lamp or reflector. Touching the lamp or the reflector when the lamp is lit or immediately afterwards will result in severe burns!
- Do not use the fixture near flammable, explosive or reactive substances. The lamp and the reflector of the fixture reach temperatures of >85 °Celsius / 185 °Fahrenheit.

- Never use the fixture when the glass is broken or without the emitter cover / reflector. There is exposure of UV radiation since the glass serves as an UV filter.
- Do not replace any parts when broken.
- The installation and use of the fixture is the responsibility of the end user. Incorrect use or installation can lead to failure and damage to the fixture. Damage to the fixture and electronic circuitry as a result of incorrect installation and use revokes the warranty.

## 5. Contents (1)

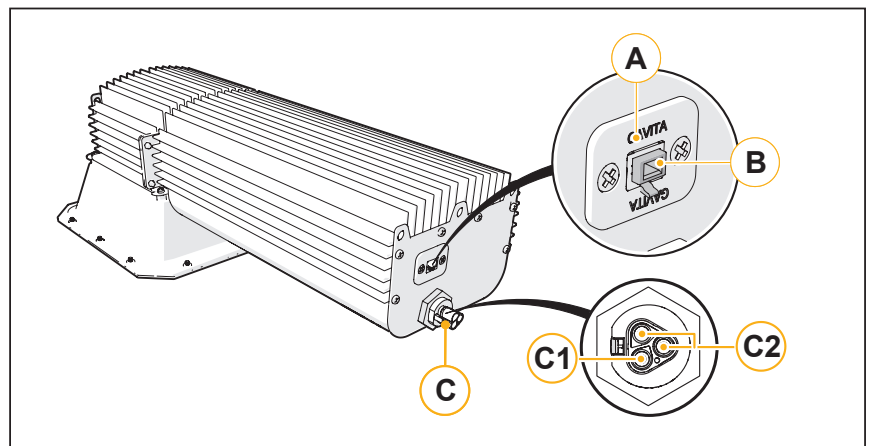
- A. Gavita Pro 270° LEP fixture
1. Electronic ballast
  2. Emitter cover/reflector
  3. Mounting points (2x)
  4. Emitter
  5. Top part of emitter
- B. Threeway control cable splitter (3xRJ)
- C. 2x Interconnect / drop cable (RJ/RJ)  
Cable length: 1,5 m / 5 ft



1.

## 6. Controls, connections and indications (2)

- A. Female RJ port for Master controller input
- B. RJ dummy plug
- C. Wieland RST20i3 male connector
1. Ground connection
  2. Phase connections



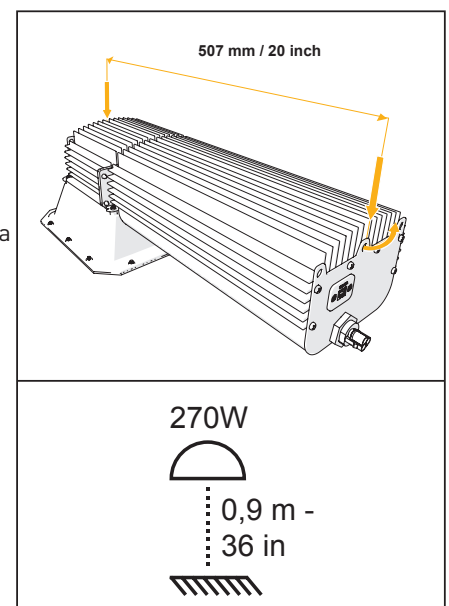
2.

## 7. Installing the fixture

- ⚠ **Warning!** Ensure the local cabling can support the voltage and current requirements of the fixture.
- ⚠ **Warning!** Avoid coiled cords and keep mains leads separated. This prevents electromagnetic interference.
- ⚠ **Warning!** The fixture is supplied with a RJ dummy plug (image 2-B) plugged in. Do not remove the RJ dummy plug when using the fixture without a Master Controller. Remove and store the RJ dummy plug when connecting the fixture to a Master Controller.
- ⚠ **Warning!** When connecting the fixture to the Master controller, the connected lamp may ignite. Make sure either the power is disconnected or the Master controller is switched off.
- ⚠ **Warning!** Do not disconnect the Wieland RST20i3 plug under load.

### 7.1. Preparing the fixture for use

- Switch off mains power.
  - Hang the fixture by its mounting points (3). The mounting points are spaced 507 mm / 20 inches apart.
- ⚠ **Warning!** Make sure the mounting points can hold the weight of the fixture.



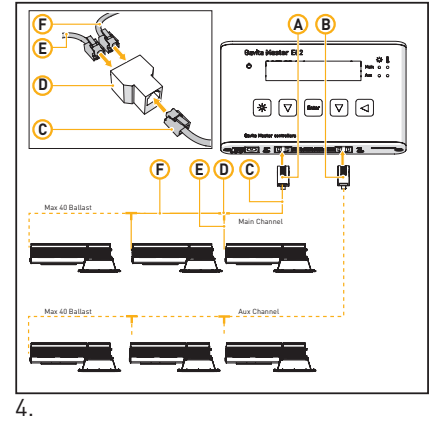
3.

## 7.2. Connecting the fixture to a Master controller (Master controller required)

- ⚠ **Warning!** Ensure the power cord and the Master controller cable do not touch the top part of the emitter.
- ⚠ **Warning!** Dimming is not supported by this fixture.
- ⚠ **Warning!** If external switching gear is used to switch the fixture, ensure it can cope with the inrush current of the fixture (see paragraph 3.2). Always use a double pole contactor. Never use household timers to switch the fixture!
- ⓘ **Note:** A RJ splitter is provided with the fixture to allow for a group of up to 40 fixtures to be daisy chained to one Master controller port (4).

For more information on connecting fixtures to a Master controller, consult the Master controller manual.

- Connect the Master controller to the input of the included RJ splitter (4D) using the Master controller's connection cable (4C).
- Connect one output of the splitter to the RJ plug of the fixture using the interconnect cable (4E).
- Connect the other output of the splitter to the input of the following RJ splitter using an interconnect cable (4F).
- Repeat this process to connect up to 40 ballasts per Master controller port (4A/B).



## 7.3. Connecting the fixture to the mains

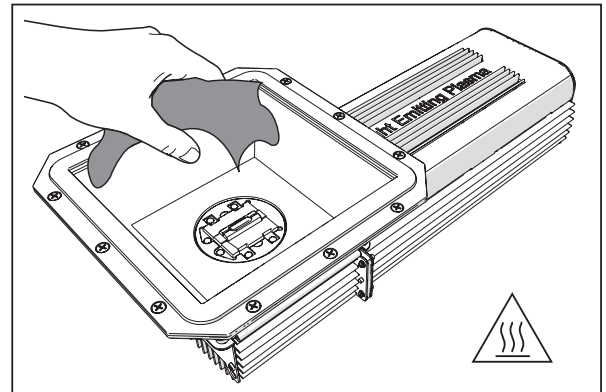
- ⚠ **Warning!** Ensure the cord is not coiled and does not touch any hot surfaces.
- ⚠ **Warning!** Make sure mains power is switched off.
- ⓘ **Note:** The Wieland RST20i3 female connection and the power cord are not included. Read the manual of the Wieland RST20i3 female connection for more information.
- If a Master controller is used, ensure the Master controller is connected to the fixture.
- Plug the Wieland RST20i3 female connection onto the Wieland RST20i3 male connection of the fixture.
- Plug the power cord into the mains.
- Switch on mains power.

## 8. Precautions when using the fixture

- ⚠ **Warning!** Never use the fixture without the emitter cover / reflector or glass!
- ⚠ **Warning!** Always wait 20 - 30 minutes for the emitter cover / reflector to cool down!

## 9. Inspection and maintenance

- ⚠ **Warning!** Disconnect the product from mains before performing any maintenance or repairs.
- ⚠ **Warning!** Do not open or disassemble the fixture, it contains no servicable parts inside. Opening the fixture can be dangerous and will void the warranty.
- ⚠ **Warning!** Always allow for a cool down period of at least 30 minutes before touching the fixture.
- ⚠ **Caution!** Do not clean the fixture with detergents, abrasives or other aggressive substances.
- ⚠ **Caution!** Ensure the exterior of the fixture is dry after cleaning it.
- Regularly check the fixture for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance:
  - Clean the electric ballast and the outside of the fixture using a dry or damp cloth;
  - Clean the glass with a damp cloth (5).
- Check the lamp monthly for discolorations and damage.
- Regularly check the wiring of the product to ensure it is undamaged.



## 10. Storage and disposal

- Store the fixture in a dry and clean environment, with an ambient temperature of -20 ~ 85 °Celsius / -4 ~ 131 °Fahrenheit.
- 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.
- ⚠ **Caution!** The lamps are chemical hazardous waste and must be delivered to the designated authorities.

## 11. Warranty

Gavita International bv 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 three (3) 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 Gavita International bv shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. For HPS lamps the warranty period is one (1) year from the original date of purchase. In case Gavita International bv decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e. three (3) years from the date of purchase of the original product. For service return the fixture to your shop with the original sales receipt.