

PAPILLON® E-Light 1000W HPS Low profile

Installation and user manual



Please read and understand the contents of this manual carefully. Failure to read the manual can result in serious damage, injury or death. Keep this manual. Make sure that all operators of the PAPILLON® E-Light 1000W HPS Low profile have read and understand the contents of this manual.



Always work safe and comply with procedures, regulation and local standards.

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This language version of the manual is verified by the manufacturer (Original manual).

Papillon Holland reserves the right to change specifications and/or spare parts without prior notice.

The content of this manual may also be changed without prior notice.

For information about settings, maintenance and repairs not provided for in this manual, please contact the technical department of Papillon Holland.

Papillon Holland accepts no liability for damage and/or problems arising from the use of spare parts not supplied by Papillon Holland.

This manual has been compiled with all possible care. Papillon Holland assumes no responsibility for any errors in this manual and/or the consequences of an erroneous interpretation of the instructions.

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Preface

Thank you for purchasing the PAPILLON® E-Light. This manual is intended for the end user and installer. The manual contains all the information you need to install and use your PAPILLON® E-Light. Furthermore, the manual contains instructions for preventing possible accidents and serious harm while the product is running. Read this information carefully!

Storing the manual

The Installation and user manual is a part of your product. Store the manual in the immediate vicinity of the product. Always present a copy of the manual to operators as they work with the PAPILLON® E-Light.

Limitations of the document

The English language version is the original version. This language version of the manual is verified by the manufacturer (Original manual). All other language versions are translations of the original English language version.

Papillon Holland reserves the right to modify the construction and/or configuration of its products at any time without any obligation to modify products which have been previously supplied. The data provided in this manual is based on the most recent information. This data may be subject to change at a later date, without prior notification. For information regarding adjustment, maintenance or repair which is not described in this document, please contact the Customer Service department of Papillon Holland.

The information in this document concentrates solely on use of the product as intended by the manufacturer. In the event that the products, parts of the products or procedures are applied in any way other than that described in this manual, then confirmation must be obtained as to the correctness and suitability of that use. No rights may be derived from this manual or from the documentation supplied together with the product. The supplier is bound by no agreement other than the order confirmation.

This manual contains useful and important information on the correct operation of the product. We have taken all possible steps to make this manual as correct and as complete as possible. Should you discover any errors or omissions, please bring this to the attention of Papillon Holland, so that we can make amendments. This will enable us to improve our documentation.

Symbols used

The following marking conventions are used in this manual to draw attention to specific topics or actions:

	Warns of a situation that could result in death or serious physical injury and/or may cause material damage if one does not obey the safety instructions.
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	Warns of a situation that could result in minor or moderate physical injury and/or may cause material damage if one does not follow the safety instructions.
	Provides additional information that is helpful to do a task or to avoid problems.
	This is the CE logo, which indicates that the product meets the legal requirements.
	<p>The ENEC symbol is an addition to the CE logo relating to electronic products that are introduced to the European market.</p> <p>The ENEC symbol is certified by a third party only, independently of the manufacturer. It indicates that the product and product location are safe as referred to in the corresponding European directive.</p>
	The symbol on the material, the accessories or packaging indicates that this product may not be treated as domestic waste.

Warranty

All electrical and mechanical component of the fixture – if used under normal operating conditions- are covered by a three year warranty from the original date of purchase.

Components that are excluded from warranty are components that have failed due to abnormal usage. If Papillon Holland decides to replace the entire product, the limited warranty period will not change, so it will be always three years from date of purchase of the original product.

In the case of defects the fixture will be either replaced or repaired using new or reconditioned products or parts.

The lamps are covered by a one year warranty from the original date of purchase. Lamps that are excluded from warranty are lamps that are broken, have failed due to abnormal usage or thermo-shock.

For service return the fixture to your store with the original sales receipt in the original package.

Liability

In the interest of promotion of fire safety in greenhouses, and all other climate rooms, a critical assessment should be made of the spacing of the fixtures and any screening fabrics present, possibly in consultation with your insurance advisor.

Papillon Holland is not liable for any damages caused by failure to comply with the installation instructions in accordance with NEN 1010 or any other legislation in your country, or any provisions assigned to function as substitutes thereof and the above assembly instructions.

Papillon Holland additional General Terms and Conditions of Sale are exclusively applicable to all deliveries. You can also find these General terms and Conditions of Sale on our website: www.papillonholland.com.

Version history

During the lifetime of the PAPILLON® E-Light, engineering improvements may result in the need to revise this manual. It is then at the discretion of Papillon Holland, if a revision/new version of this manual is required.

The following table describes the main changes for each document version of this manual.

Version	Date	Changes
1.0	2 March 2018	Initial version

The information in this document concentrates solely on the installation and use of the PAPILLON® E-Light as intended by Papillon Holland. In the event that the products, parts or procedures are applied in any way other than that described in this manual, then confirmation from Papillon Holland must be obtained as to the correctness and suitability of that use.

Supplements to the manual

Please visit www.papillonholland.com for the latest version of the manual.

Manufacturer details

If you need any assistance, or still have questions after reading this manual, we would encourage you to contact us. We appreciate all advice, feedback and suggestions from our customers. Please contact:

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Trademarks

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Terms

Fixture	PAPILLON® E-Light
Installer	Person qualified to install the PAPILLON® E-Light

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1 Introduction

The PAPILLON® E-Light is a fixture intended for overhead illumination of horticultural crops. For other applications in professional horticulture, please contact Papillon Holland.

Any use other than the approved intended use described above is considered unintended use. Papillon Holland cannot be held responsible for possible (consequential) damage caused by improper, incorrect or inadvisable use.

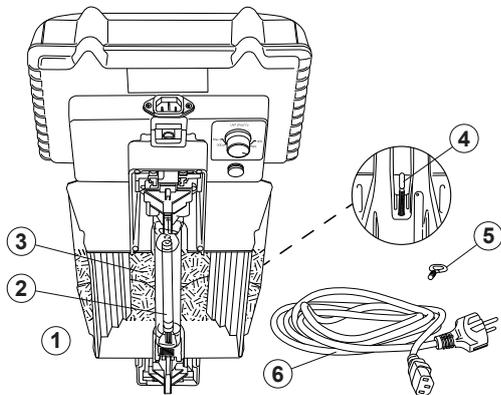
The PAPILLON® E-Light is referred to as the "fixture" in this manual. This manual includes all versions of the fixture.

The product satisfies the following standards: EN60598-2-1, EN62031, EN62471, EN55015.

2 Description

2.1 Main components

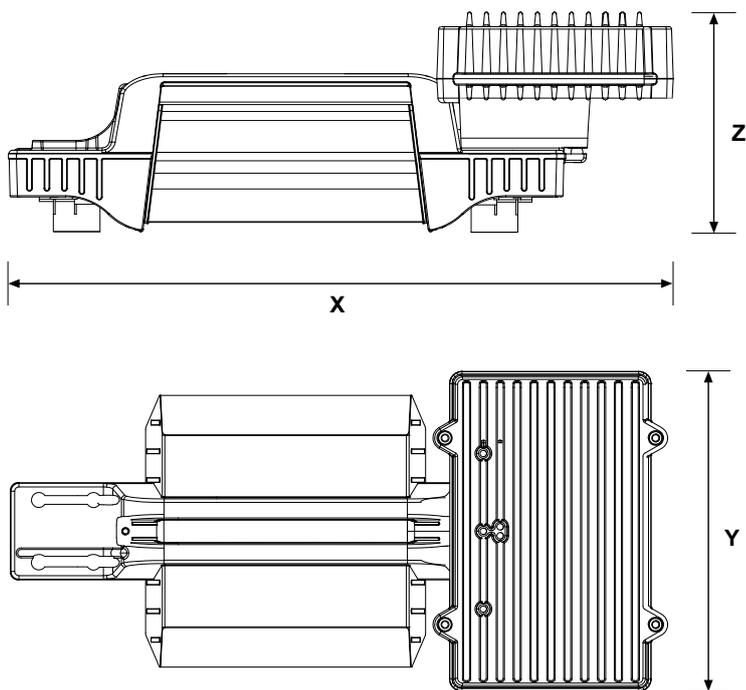
The PAPHILLON® E-Light system consists of the following components:



1. PAPHILLON® E-Light 1000W-240V Low profile fixture, including:

- 2. High Pressure Sodium 1000W-DE lamp (1x)
- 3. Papillon reflector (1x)
- 4. Long eye bolt (1x)
- 5. Short eye bolt (1x)
- 6. Black connecting cable with C13-connector¹ (1x)

2.2 Technical specifications



Mechanical	
Product dimensions (L x W x H):	545mm (X) x 275mm (Y) x 180mm (Z)
Product weight:	4.75kg

¹ Type of power plug can vary depending on the country.

Mechanical	
Degree of protection:	IP20 (open reflector)

Electrical	
Mains voltage +/- 10%:	230V AC, 50Hz
Input current:	4.7A (at nominal 1000W and 230V)
Inrush current:	< 40A
Power factor:	> 0.97
Input frequency:	50/60Hz
Dim range:	600-1150W
Lamp type:	High Pressure Sodium 1000Watt EL – Double ended

Other	
Ambient temperature:	0 ~ +30°C
Relative air humidity:	5% ~ 85%, non-condensing
Marking:	CE
Warranty:	3 years limited warranty, 1 year on lamp

3 Safety



- The product may only be installed by a qualified person.
- Product installation must satisfy the current applicable standards.
- Switch off the mains voltage before commencing installation or maintenance work.
- Do not open or disassemble the product. Opening the product can prove hazardous and will void the warranty.
- Never look directly into the light source after connection. Doing so can cause damage to the eyes.
- Wait at least 30 minutes after switching off the fixture before you touch or replace the lamp. The lamp can be extremely hot.
- Make sure that the power cord/box and the lamp cord are connected properly.
- Never suspend a fixture by its power cord or power cable.
- If the lamp is broken or fails, replace the lamp immediately.
- Do not plug or unplug a lamp cord/cable while the fixture is switched on.
- Do not make contact to the lampholders/-socket while the power is on.
- Never open the housing of the ballast and do not rewire, repair or reconfigure any components of the fixture, because all this can cause serious injury or death.
- Do not operate the lights/fixtures in wet locations.
- Do not plug this system into a supply voltage other than what is instructed on the housing of the ballast.
- The fixture operates at very high temperatures. Keep away from children and animals.



- The end user is responsible for ensuring correct installation and use of the product. Incorrect installation can cause damage or defects to the product. The warranty shall become void if the product and/or electronic components are damaged due to incorrect installation.

4 Installation

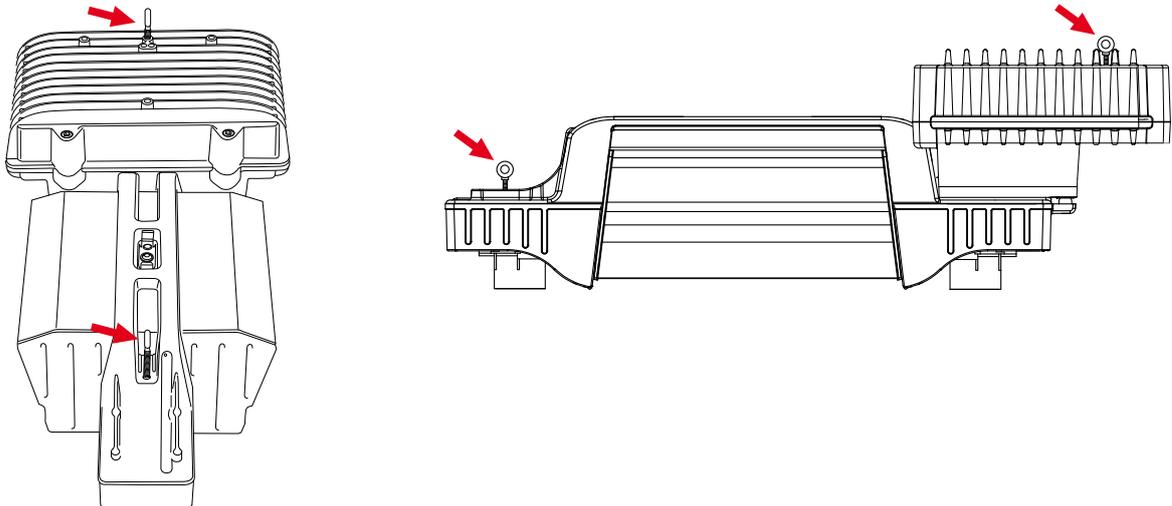


- The product may only be installed by a qualified person.
- Switch off the mains voltage before commencing installation.
- The end user is responsible for correct and safe installation.
- Ensure that the wiring satisfies the requirements in order to use the product within the specifications.
- Never roll up cables and ensure that connection cables are kept separate. This helps to prevent electromagnetic interference.

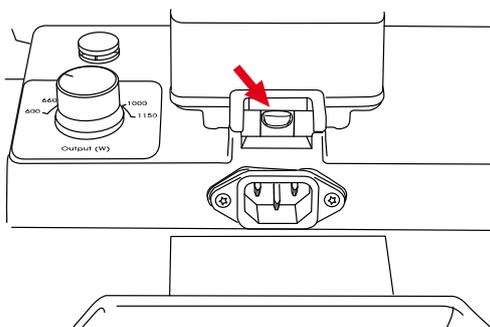
4.1 Installing the fixture

Gather the equipment for mounting the fixture, before you begin the installation!

1. Place and tighten the short eye bolt in the 'front' of the fixture.



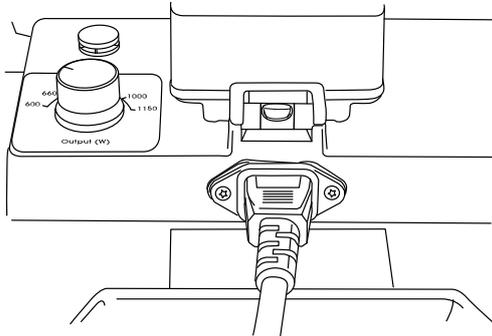
2. Tighten the long eye bolt at the 'back' of the fixture.
3. Mount the fixture with wires.
4. Level the fixture using the integrated spirit level indicator on the back to level the fixture. The fixture is levelled correctly when the bubble in the spirit level indicator is centred.



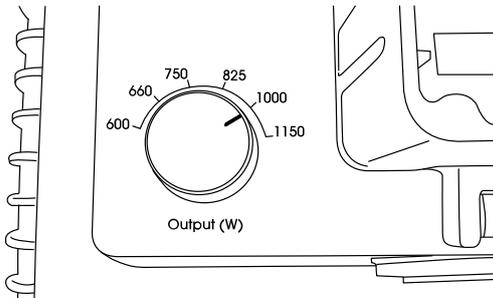


A not properly levelled fixture will result in poor light uniformity on the crop and possible light spill.

5. Connect the power cable from the fixture to the power supply.



6. Use the control switch to adjust the light output. The output scale represents the power to the lamp.



5 Operation



- The PAPILLON® E-Light is developed for plant growth in indoor climate rooms. Do not use the fixture in a wet environment.
- The ambient temperature should not exceed 30°C. The relative air humidity should not exceed 70%.
- Do not operate the fixture close to dangerous or combustible materials.
- Always disconnect the fixture from the mains before replacing the lamp.
- After the fixture has been switched off the lamp can still be very hot! Allow the lamp to cool down for 30 minutes before restarting.
- If the lamp is replaced while still connected to the mains, the lamp will not ignite. The electronic ballast needs a reset by disconnecting the fixture from the mains.

5.1 Operating the fixture

The PAPILLON® E-Light 1000W is designed for use in combination with a 1000W HPS DE lamp. This lamp is specially designed for high frequency electronic drivers.

The output of the lamp can be adjusted by the dim switch at the bottom of the fixture. The typical output of the lamp is 1000W. The dim range is 600-1150W.

A space of at least 100cm between the PAPILLON® E-Light 1000W and the top of the plants is required. In order to check for excessive heat, place your hand (palm down) over the top of the plants. When your hand gets too hot, it is necessary to adjust the height of the fixture as this is also too hot for the plants. You will risk burned plants if the fixture is placed too close. Keep in mind that as your plants grow, the height of the fixture needs to be adjusted on a regular basis.

6 Maintenance



- Switch off the mains voltage before commencing maintenance work.
- Do not open or disassemble the product. Opening the product can prove hazardous and will void the warranty.

6.1 Cleaning

Check the product at regular intervals for build-up of dust and dirt. Clean the product if necessary. Contamination can lead to overheating and reduced performance.

Clean the fixture with a dry or slightly damp cloth.



- Never clean the product with corrosive cleaning agents, abrasives or other aggressive liquids.
- Protect connectors against the ingress of water.

6.2 Replacing the lamp

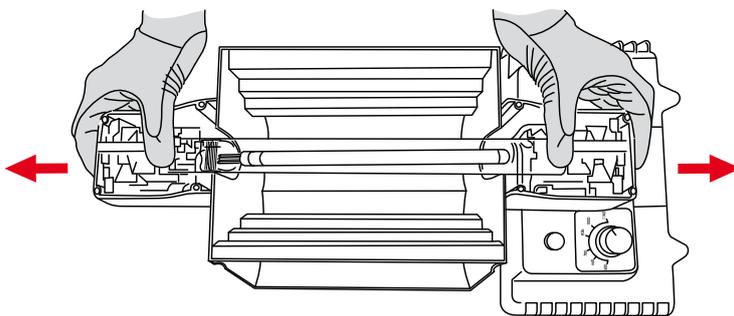


- Switch off the mains voltage before commencing maintenance.
- Wait at least 30 minutes after switching off the fixture before you touch or replace the lamp. The lamp can be extremely hot.

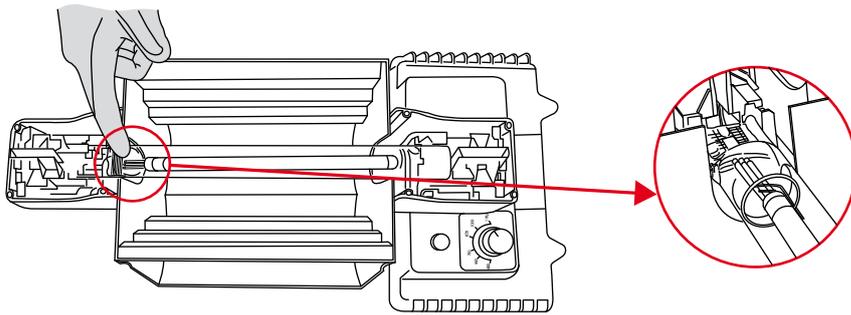


It is advised to always wear cotton gloves when handling double-ended lamps.

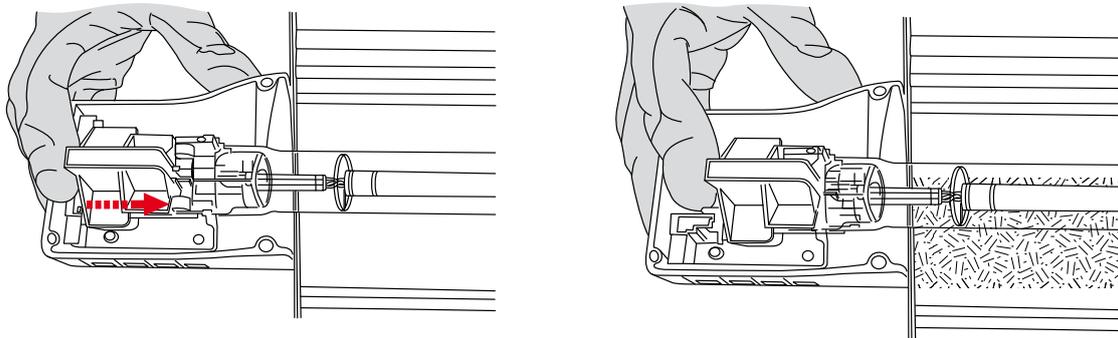
1. Unlock both lamp holders and remove the lamp.



2. Position the lamp. The capacitor of the lamp has to be placed opposite to the electronics compartment.



3. Push both lamp holders until they lock back in place in order to secure the lamp.



Ensure that both lamp holders are fully closed. If not, there is a risk of a defect lamp holder and lamp.

7 Putting into storage or discarding

Putting into storage

In the event that the product is to be stored, it must be kept in a dry, clean environment with an ambient temperature of $-20 \sim +50^{\circ}\text{C}$.

Discarding



Dispose the equipment through a recycling centre that handles electronics and electrical appliances within the EU and in other European countries which use separate collection systems for used electronics and electrical appliances. By disposing of the equipment in the proper way, you will be helping to prevent potential 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, do not discard your old electrical and electronic equipment via the domestic waste.



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