

# AGRILED® 3 Series Luminaire

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 AGRILED® 3 Series luminaire 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).

Agrilight b.v. 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 your dealer.

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

This manual has been compiled with all possible care. Agrilight b.v. 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 AGRILED<sup>®</sup> 3 Series. This manual is intended for the end user and installer. The manual contains all the information you need to install and use your AGRILED<sup>®</sup> 3 Series. Furthermore, the manual contains instructions for preventing possible accidents and serious harm while the product is running. Read this information carefully!

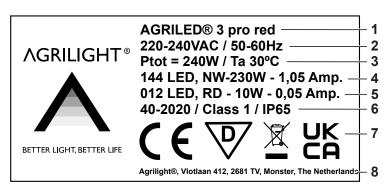
## **Applicable devices**

This manual applies to the following devices:

- AGRILED<sup>®</sup> 3 pro red
- AGRILED® 3 pro
- AGRILED<sup>®</sup> 3 red
- AGRILED® 3
- AGRILED<sup>®</sup> 3 eco

## **Registration sticker**

The registration sticker is attached to the AGRILED® 3 Series luminaire. Always include the type number of your luminaire when you contact your local Agrilight dealer or order spare parts. Additionally, this information can be found on the registration sticker:



- 1. Product name
- 2. Power supply / frequency
- **3.** Total power luminaire / maximum ambient operating temperature
- 4. Amount of White LEDs, NW = Neutral White - power - current
- **5.** Amount of Red LEDs, RD = Red power LED current
- **6.** Production week / year, Class 1 protection / Ingress Protection rate
- 7. For markings, see manual
- 8. Legal manufacturer

## **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.

Agrilight b.v. 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.

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 Agrilight b.v., so that we can make amendments. This will enable us to improve our documentation.

### Manufacturer details

If you need any assistance, or still have questions after reading this manual, we would encourage you to contact your dealer.

We appreciate all advice, feedback and suggestions from our customers. Please contact:

Agrilight b.v. Vlotlaan 412 2681 TV Monster The Netherlands +31 (0)174 287 287 info@agrilight.com www.agrilight.com

#### **Trademarks**

All trademarks stated in this manual are registered trademarks of Agrilight b.v..

# 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 AGRILED® 3 Series.

## Symbols used

The following marking conventions are used in this manual and on the luminaire 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.



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.



Risk of electric shock.



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 for the European Union.



This is the UKCA logo, which indicates that the product meets the legal requirements for the United Kingdom.



The temperature of the luminaire will not exceed 90 °C



The symbol on the material, the accessories or packaging indicates that this product may not be treated as domestic waste.

#### Illustrations

It is not always possible to show the exact configuration of your luminaire. The illustrations in this manual are for description and instruction purposes only and show a regular version of the luminaire.

# Recommissioning

If the product is resold, make sure this manual is always available to the buying customer.

## Liability

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

Agrilight b.v. additional *General terms and conditions of sale and delivery* are exclusively applicable to all deliveries. You can also find these *General terms and conditions of sale and delivery* on our website: www.agrilight.com.

## Warranty

Agrilight b.v. offers a warranty of five (5) years on the AGRILED<sup>®</sup> 3 pro red, AGRILED<sup>®</sup> 3 pro, AGRILED<sup>®</sup> 3.

Agrilight b.v. offers a warranty of three (3) years on the AGRILED® 3 eco.

Refer to the *General terms and warranty conditions* for further information.

## **Version history**

During the lifetime of the AGRILED<sup>®</sup> 3 Series, engineering improvements may result in the need to revise this manual. It is then at the discretion of Agrilight b.v., 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	August 2020	Initial version
1.1	May 2022	Address updated, UKCA logo and DoC added

The information in this document concentrates solely on the installation and use of the AGRILED<sup>®</sup> 3 Series as intended by Agrilight b.v.. In the event that the products, parts or procedures are applied in any way other than that described in this manual, then confirmation from Agrilight b.v. must be obtained as to the correctness and suitability of that use.

# Supplements to the manual

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

#### Terms used

Luminaire AGRILED® 3 Series

Installer Person qualified to install the AGRILED® 3 Series

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# 1 Introduction

**AGRILIGHT B.V.** 

The AGRILED® 3 Series is intended as a luminaire for lighting livestock and agricultural buildings and halls.

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

The AGRILED® 3 Series is referred to as the "luminaire" in this manual. This manual includes all versions of the luminaire.

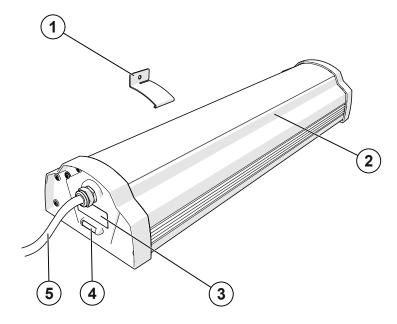
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Introduction 9

# 2 Description

# 2.1 Main components

The luminaire consists of the following components:



- 1. Mounting brackets (4x)
- 2. AGRILED® 3 Series luminaire
- 3. Registration sticker
- 4. Spirit level
- 5. Power supply cable

# 2.2 Technical specifications

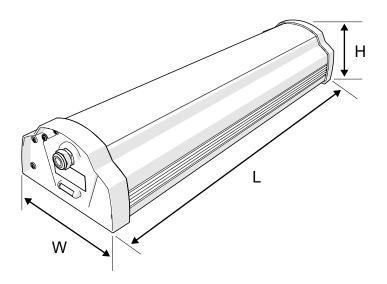
	AGRILED® 3 pro red	AGRILED® 3 pro	AGRILED® 3 red	AGRILED® 3	AGRILED® 3 eco
Mains voltage		220	-240V AC, 50 / 6	0Hz	
Input current	1,0	)5A	0,53A		
Red LED current	0,03A		0,03A		
White LED power	240W +/- 5%		140W +/- 5%		
Red LED power	10W		10W		
Power factor	> 0,98				
Dimmable	Yes (DALI)			No	
Photo biological safety	RG1				
Energy class	С				

AGRILIGHT B.V. Description 10

	AGRILED® 3 pro red	AGRILED® 3 pro	AGRILED® 3 red	AGRILED® 3	AGRILED® 3 eco	
Color rendering index (CRI)	70					
IP/IK rating		IP65 / IK08				
Ambient temperature	-20 °C / + 30°C					
Dimensions luminaire (L × W × H)	805 × 214 × 130mm					
Dimensions box (L × W × H)	925 × 230 × 150mm					
Weight	8,3 kg	8,3 kg	8,1 kg	8,1 kg	7,9 kg	
Lifetime	100.000 L90 B50					
Warranty	5 years 3 years					

#### **Dimensions** 2.3

Dimensions of the luminaire:



Length: 805mm Width: 214mm Height: 130mm

# 3 Safety



- The product may only be installed by an installer.
- Product installation must satisfy the current applicable standards.
- Switch off the power supply before commencing installation or maintenance work.
- Do not open or disassemble the product. Opening the product can prove hazardous and will void the warranty.
- If connected, the product or its components are powered by a 230V power supply.
- Never look directly into the light source.
- Wait at least 30 minutes after switching off the luminaire before you replace any components, e.g. the gear tray. The parts can be hot.
- Never suspend a luminaire by its power cord or power cable.
- Do not plug or unplug a lamp cord/cable while the luminaire is switched on.
- Do not plug this system into a supply voltage other than indicated on the luminaire label.



The end user is responsible for the proper installation and product use. An incorrect
installation may result in product damage or shortcomings. The warranty will become
void, if the product and/or electronic components are damaged due to an incorrect
installation.

#### **Transport and storage** 4

Always transport the luminaire with care, in its original packaging which is delivered with the product.

If the product is to be stored, it must be kept in a dry, clean environment with an ambient temperature between 0°C and 40°C.

#### Installation 5



- The product may only be installed by an installer.
- The end user is responsible for a correct and safe installation.
- Make sure that the wiring is according to the requirements as described in the specifications.
- For the electrical connection, refer to *Electrical installation* on page 17.
- Always comply with the local legal connecting conditions.

#### **Physical installation** 5.1

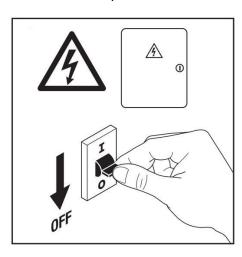
Gather the equipment for mounting the luminaire and consult the lighting plan before you start the installation. The luminaire can be mounted in two different ways:

- 1. With a roof bracket system
- With a suspension system

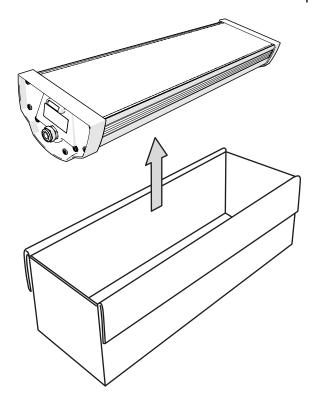
Choose the correct mounting method for your situation. Both mounting systems must be ordered separately from Agrilight.



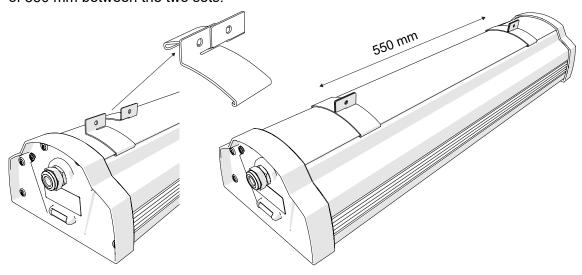
Disconnect the power.



1. Remove the luminaire and brackets from the protective packaging.

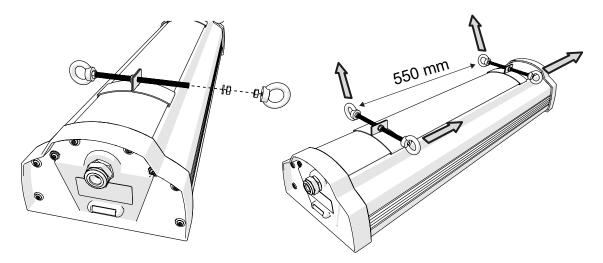


2. Mount the two sets of brackets on the luminaire and slide the brackets together. Keep a distance of 550 mm between the two sets.



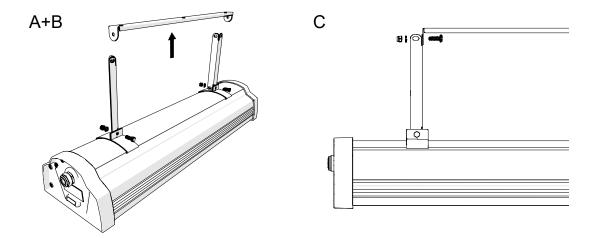
# 3. Mounting with suspension system

Mount the threaded ends in the centre of both bracket sets with the hardware provided. Mount the eye nuts on both sides and tighten the nuts. Mount the luminaire to the roof or ceiling using chains. (not provided).

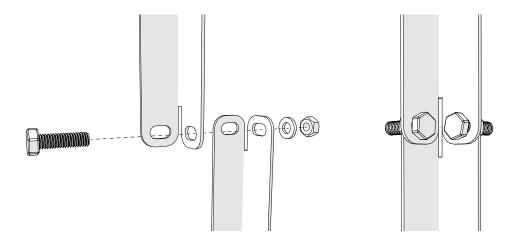


## 4. Mounting with a roof bracket system

- a. Mount the mounting strips to the brackets and tighten the bolts and nuts.
- b. Mount the roof bracket to the roof or ceiling.
- c. Mount the luminaire with strips to the roof bracket and tighten the bolts and nuts.



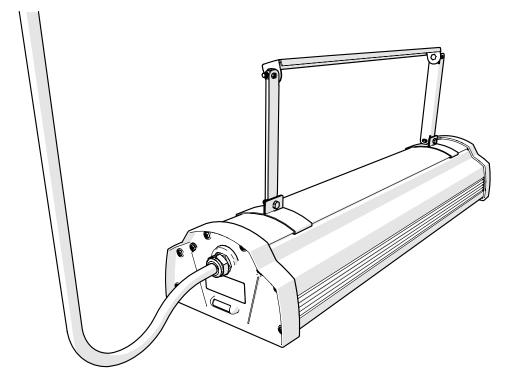
d. If necessary, connect two mounting strips together, using two extra sets of bolts, nuts and washers (not provided):



#### **Electrical installation** 5.2



To prevent water ingress, make sure there is a loop in the cable, as shown in the image below:



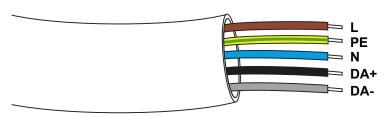
# Connections 230V & Dali

Cable for AGRILED® 3 eco:



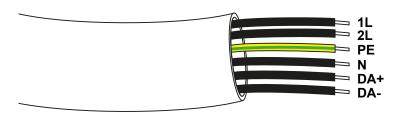
Function	Wire	Wire colour
Phase	L	Brown
Earth connection	PE	Yellow/green
Neutral	N	Blue

Cable for AGRILED® 3 and AGRILED® 3 pro:



Function	Wire	Wire colour	
Phase	L	Brown	
Earth connection	PE	Yellow/green	
Neutral	N	Blue	
DALI +	DA+	Black	
DALI -	DA-	Grey	

Cable for AGRILED® 3 red and AGRILED® 3 pro red:



Function	Wire
Phase (white light)	1L
Phase (red light)	2L
Earth connection	PE
Neutral	N
DALI +	DA+
DALI -	DA-



The cable for AGRILED® 3 red and AGRILED® 3 pro red uses five black wires and one yellow/green wire. The wire functions are indicated on the wires.

## **Connections LED**

Function	Connector	Wire colour
White led +	1	White
White Led -	2	Blue
Red LED +	3	Red
Red Led -	4	Black

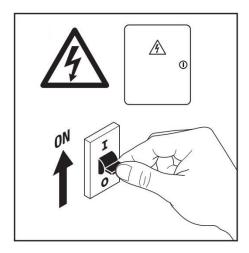


The number of wires depends on the type of luminaire.

#### **Commissioning** 6

When all cables are connected, switch on the power supply.

Consult the DALI controller manual for information about operating the luminaire.



#### **Operation** 7



- The luminaire has been developed for the agricultural sector.
- When the luminaire is switched on, the ambient temperature should not exceed 86°F/30°C and the relative humidity should not exceed 70%.
- Maximum concentration NH3 (ammonia) 20ppm.

#### **Operating the luminaire** 7.1

- The power supply 230V must be connected.
- The light level (1-100%) can be adjusted using a DALI controller.
- If no DALI controller is connected, the luminaire will switch on at 100%.

#### 8 **Maintenance**



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

#### Cleaning 8.1

Check the product at regular intervals for build-up of dust and dirt. Clean the product, if necessary. Contamination can lead to overheating and reduce the lifetime of the luminaire.

Clean the luminaire with a dry or slightly damp cloth to keep the best light performance and lifetime.



Never clean the luminaire with corrosive cleaning agents, abrasives or other aggressive liquids.

#### **Troubleshooting** 9

#### **Questions and Answers** 9.1



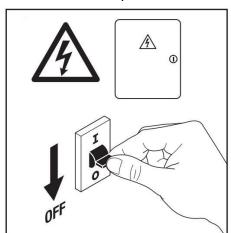
Do not replace any parts yourself. Always contact your installer for replacement parts.

Questions	Answers		
1. All the luminaires do not switch on.	a. Check the mains voltage.		
	b. Check the DALI controller.		
	c. Check for damaged cables. If damaged, have the cable replaced by your installer.		
2. One of the luminaires does not switch on.	a. Check if the cable is properly connected in the junction box.		
	b. Replace the gear tray if necessary. See <i>Repair</i> procedures on page 23.		
3. The luminaire(s) do(es) not operate	a. Check if the luminaire is dimmable.		
in dimmed mode.	b. Check the DALI controller.		
	c. Check the DALI cable connections.		
If all above does not help, contact your Agrilight dealer.			

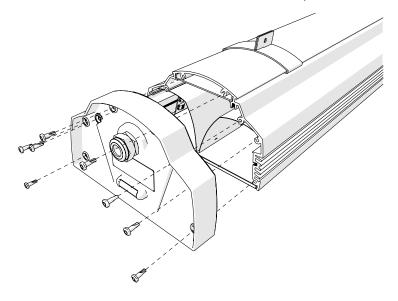
#### 9.2 Repair procedures

When the luminaire does not function properly, please contact your Agrilight dealer. If necessary, the gear tray can be replaced by an installer. Follow these steps to replace the gear tray.

1. Disconnect the power.



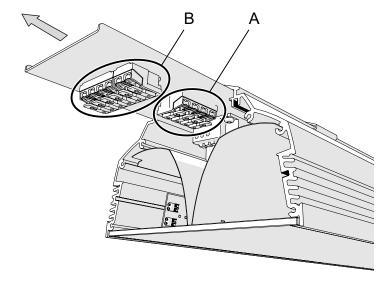
2. Unscrew the TX20 screws from the end cap with the cable by using a Torx screwdriver.





The screws may fall out of the end cap. Store the screws in a safe place.

- 3. Remove the end cap from the luminaire.
- 4. Slide out the gear tray for 150mm and disconnect the LED wires from (A) and the power supply cable from (B).



5. Remove the gear tray completely.

To install a new gear tray, follow the steps in reverse order:

- a. Reconnect the LED wires to (A). Refer to *Electrical installation* on page 17.
- b. Reconnect the power supply cable to (B). Refer to *Electrical installation* on page 17



Make sure you do not forget the earth connection.



If the luminaire does not work correctly after replacing the gear tray, contact your Agrilight dealer.

#### **Disposal** 10

Disposing this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Decommissioning and disassembly of the product can be dangerous and must be done only by qualified recycling organizations. All components must be disposed in compliance with the local rules and regulations. Lubricants and fluids must be disposed correctly to prevent pollution of the environment. Read the safety data sheets of the used lubricants and fluids for correct disposal. All lubricants and fluids must be disposed in compliance with the local rules and regulations.

Contact your local authority or local Agrilight service provider for further details



The WEEE-symbol (crossed-out wheelie bin) indicates separate collection of electrical waste and electronic equipment in the European countries. We are committed to being a good corporate citizen. As part of that commitment, we strive to maintain an environmentally conscious manufacturing operation. In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) Directive 2012/19/EC, we would like to notify you that this product might contain regulated materials, which upon disposal, according to the WEEE directive, require special reuse and recycling processing.

For this reason, Agrilight has arranged that this product can be recycled at the local recycling/ disposal companies to collect and recycle this product at no cost to you. Additional local legislation may apply.

Please note, only this product itself is under the WEEE Directive. When disposing of packaging and other related shipping materials we encourage you to recycle these items through the normal channels. LEDs contain electronic parts and must be handed in to the appropriate authorities.

#### **EC Declaration of Conformity** 11

#### **EC Declaration of Conformity**

CF-DECLARATION OF CONFORMITY CE-DECLARATION OF CONFORMITY
CE-VERKLARING VAN OVEREENSTEMMING
DÉCLARATION DE CONFORMITÉ CE
CE-KONFORMITÄTSERKLÄRUNG СЕ-ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ PROHLÁŠENÍ O SHODĚ CE EF-OVERENSSTEMMELSESERKLÆRING CE MÄRGIS – VASTAVUSDEKLARATSIOON CE-DECLARACIÓN DE CONFORMIDAD CE-VAATIMUSTENMUKAISUUSVAKUUTUS

CE IZJAVA O SUKLADNOSTI



EK-MEGFELELŐSÉGI NYILATKOZAT CE-samræmisyfirlýsing DICHIARAZIONE DI CONFORMITÀ CE EB ATITIKTIES DEKLARACIJA CE ATHIKTIES DEKLARACIJA CE ATBILSTĪBAS DEKLARĀCIJA DEKLARACIJA ZGODNOŚCI CE DECLARAŢIE DE CONFORMITATE CE FÖRSÄKRAN OM ÖVERENSSTÄMMELSE CE-MÄRKNING VYHLÁSENIE O ZHODE CE IZJAVA O SKLADNOSTI CE Declaração CE de Conformidade

The undersigned, representing the following supplier, Ondergetekende, vertegenwoordiger van de volgende leverancier Le soussigné, représentant le fournisseur suivant Der Unterzeichnete, den folgenden Lieferanten vertretend Долуподписаният, представляващ следния доставчик Níže podepsaný v zastoupení následujícího dodavatele Nuce pouepsany v austrupem in ansetunient uduarateur Undertegnede, som repræsenterer nedenstående leverandør Allakirjutanu, kes esindab alljärgnevat tarnijat El abajo firmante, en representación del siguiente proveedor Allekirjoittanut, joka edustaa seuraavaa toimittajaa Dolje potpisani, kao predstavnik dobavljača

Agrilight b.v.

Vlotlaan 412

2681 TV Monster

The Netherlands

Alulírott, aki a következő beszállítót képviseli Undirritaður sem er fulltrúi eftirfarandi birgis La firmataria, che rappresenta il seguente fornitore Pasirašęs asmuo, atstovaujantis toliau nurodytam tiekėjui Apakšā parakstījusies persona, kas pārstāv piegādātāju Niżej podpisany, reprezentujący następującego dostawcę Subsemnatul, reprezentānd furnizorul urmātor Undertecknad, som representerar följande leverantör Nižšie podpísaný v zastúpení nasledujúceho dodávateľa Podpisani predstavnik dobavitelja O abaixo-assinado, em representação do fornecedo

Producter **Produits** Produkte Produkter Productos Tuotteet Proizvodi

AGRILED® 3 pro red AGRILED® 3 pro AGRILED® 3 red AGRILED® 3 AGRILED® 3 eco

Termékek Vöru Gaminia produkt Produkty Produse Produkter Výrobky Za naslednje izdelke Produtos

Hereby certifies that this product is conform with the European standards Verklaart hierbij dat dit product voldoet aan de Europese normen verkiaart nierbij dat dit product voiloet aan de Europese normen Certifie par la présente que ce produit est conforme aux normes européennes. bestätigt hiermit, dass dieses Produkt den europäischen Normen entspricht. С това се удостоверява, че този продукт отговаря на европейските стандарти timto potvzuje, že tento výrobek je v souladus s evropskými normami bekræfter hermed, at dette produkt er i overensstemmelsem med de europæiske standarder kinnitab käesolevaga, et see toode vastab Euroopa standarditele Certifica por la presente que este producto satisface las normas europeas todistaa, että tämä tuote on eurooppalaisten standardien mukainen Ovime se potvrđuje da je ovaj proizvod sukladan europskim standardima

LVD 2014/35/EU EMC 2014/30/EU

Ezennel igazolja, hogy ezek a termékek megfelelnek az európai szabványoknak Hér með vottað að þessi vara er í samræmi við evrópska staðla Dichiara che il prodotto è conforme alle norme europee
Patvirtina, kad gaminiai atitinka Europos Sajungos standartus
ar so apliecina, ka produkti atbist Eiropas standartus
Niniejszym oświadcza, że produkt ten jest zgodny z normami europejskimi
Certifica que este produto está em conformidade com as normas europeias Intygar härmed att denna produkt uppfyller kraven i de europeiska standarderna gan narineu att uemin produkt uppypier kareeri i ee europeiska szaindauerina týmto potvrdzuje, že tento výrobok je v súlade s europskymi normami Potrjujem, da je ta izdelek skladen z evropskimi standardi Certific prin prezenta că acest produs este conform cu standardele europene

The product has been tested according to Het product is getest overeenkomstig Le produit ont été testé conformémen Die Produkt wurden geprüft gemäß Продуктът е тестван в съответствие с Výrobek bylo testováno v souladu s

Produktet er testet i henhold til Toodet on kontrollitud vastavalt alljärgnevatele standarditele ja direktiividele El producto han sido verificada conforme

. Tuote on testattu seuraavien vaatimusten mukaisesti

Produkt testirana su sukladno

EN 60598-1:2015

EN 60598-2-1:1989

EN 55015:2013 en A1:2015

EN 61000-3-2:2014 EN 61000-3-3:2013

EN 61547:2009

EN 13032-4

IEC TR 62778 IEC 63158

IEC 61547-1

EN 5509

A termék az alábbi irányelvek előírásai szerint tesztelték Varan hefur verið prófuð samkvæmt Il prodotto è stato testato secondo Produktas buvo išbandyti vadovaujantis Produkts ir testēta saskaņā ar Produkt zostal przetestowany zgodnie z Produsul a fost testate în conformitate cu Produkten har testats i enlighet med

Výrobok bol testované v súlade s Izdelek je bile preskušene skladno z naslednjimi standardi O produto foi testados de acordo com as seguintes normas

Signature & date Handtekening & datum Signature & date Unterschrift & Datum Подпис & Дата Podpis & datum Underskrift & dato Allkiri & Kuupäev Firma & Fecha Firma & Fecha Allekirjoitus & Pvm Potpis & Datum

H. Hondebrink Managing Director Agrilight

09-5-2022

Aláírás & Dátum Undirritun & dagsetning Firma & data Parašas & data Paraksts & datums Podpis & data Semnătura & data Underskrift & Datum Podpis & datum Podpis & datum

# 12 UKCA Declaration of Conformity

**AGRILIGHT®** BETTER LIGHT, BETTER LIFE

**UKCA Declaration of Conformity** 



The undersigned, representing the following supplier, and technical documentation for the product(s) are available from:

Agrilight b.v. Vlotlaan 412 2681 TV Monster The Netherlands

Products / Modeltype

AGRILED® 3 pro red AGRILED® 3 pro AGRILED® 3 red AGRILED® 3 AGRILED® 3 eco



Hereby certifies that this product is conform with the British standards.

- 2016 (SI 2016/1101) The Electrical Equipment Safety Regulations
- 2016 (SI 2016/1091) The Electromagnetic Compatibility Regulations

The product has been tested according to		BS 60598-1:2015	- Luminaires General requirements and tests		
The contract of the contract o		BS 60598-2-1:1989	- Fixed General purpose Luminaires		
		BS 55015:2013 en A1:2015	- Limits and methods of measurement of radio disturbance		
			characteristics of electrical lighting and similar equipment		
	*	BS 61000-3-2:2014	- Limits for harmonic current emissions		
		BS 61000-3-3:2013	- Electromagnetic compatibility (EMC) Limits. Limitation of		
	•		voltage changes, voltage fluctuations and flicker in public low- voltage supply systems, for equipment with rated currect < 16A per phase and not subject to conditional connection.		
	•	BS 61547:2009	- Equipment for General lighting purposes. EMC immunity requirements		
	•	BS 13032-4:2015	<ul> <li>Light and Lighting. Measurement and presentation of photometric data of lamps and luminaires LED lamps, modules and luminaire</li> </ul>		
	•	BS 62778:2014	- The assessment of blue light hazard to light sources and luminaires		
	•	BS 63158:2018	<ul> <li>Equipment for general lighting purposes. Objective test method for stroboscopic effects of lighting equipment.</li> </ul>		
	•	BS 61547-1	<ul> <li>Equipment for general lighting purposes. EMC immunity requirements</li> </ul>		

Date of issue Name Function

- 25/4/2022 - H. Hondebrink - Managing Director





BETTER LIGHT, BETTER LIFE

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