

AGRILIGHT®



BETTER LIGHT, BETTER LIFE

AGRILED® 3 Series

Full assortment lighting
for dairy cows





Better light, better life

Light as a production resource

It is scientifically proven that a correct use of light contributes to both animal welfare and milk production. Light is not only just to illuminate your farm, but it is also a farm management tool, to improve the performance of livestock.



Dairy cows

Dairy cows benefit from 16 hours of light at 150-200 lux and 8 hours of darkness. This is the optimal light level to achieve the benefits of light such as 8-9% higher milk yield and a shorter intercalving time.

Source: Dahl & Petitclerc, 2003

- Higher milk production (8-9%)
- Improved fertility
- Better heat detection
- Shorter calving intervals
- Disease detection

Light regime dairy cows

🕒 16 hours light - 8 hours darkness

💡 Light intensity: 150-200 lux

Young stock

Young stock benefit from the same lighting regime as dairy cows. Young stock are the future dairy cows, so why wouldn't we treat them the same? Source: Ruis et al., 2005

- Reach puberty faster
- Higher feed intake
- Improved growth
- Improve udder development



Light regime young stock

🕒 16 hours light - 8 hours darkness

💡 Light intensity: 150-200 lux



Dry cows

Dry cows benefit from 8 hours of light at minimum 80 lux on average and 16 hours of darkness to regulate/reset their endocrine system, give the udders rest and improve milk yield at their next lactation. Source: Auchtung et al., 2005

- Give udder rest
- Improve milk yield at next lactation
- Avoid udder infections

Light regime dry cows

🕒 8 hours of light - 16 hours of darkness

💡 Light intensity: 80 lux

Endocrine system & animal welfare

Cows are naturally more active in spring and summer time, when days are long. With the proposed light regime, the biorhythm of cows is controlled by reducing the production of the sleep hormone: melatonin. Longer periods of light mean less sleep hormone and healthier, more active cows. The result is a better feed intake and higher production.



Influence of red light

Scientific studies have revealed that dairy cattle hardly perceive red light and are therefore not disturbed while resting at night. The red LED light in the luminaire can be used to inspect your cattle in periods of darkness without the risk of upsetting their hormone balance.

Source: van Oosterhout et al., 2012

New generations LED luminaires

Together with our European dealers and their end customers (European dairy farms), we have developed a new assortment of luminaires. The new product range consists of 3 types and 5 variants of luminaires to meet the light needs of every type of livestock.



White light of the AGRILED® 3

New LED technology

The special 180-degree LEDs in combination with unique reflector design gives you the latest LED technology and best light distribution in your barn. The luminaires have been specially developed for the barn and are produced in the Netherlands at our own Dool Industries factory.

This all in combination with the long lifespan and low energy consumption provides you with a reliable production resource with a short return on investment.

Product Assortment

AGRILED® 3 pro - Intelligent automated lighting system for dairy cattle: scientifically proven 8-9% stimulation of the milk yield with optional integrated red LED light.

AGRILED® 3 - Intelligent automated lighting system for dry cattle, separation rooms, working light and lower barns with optional integrated red LED light.

AGRILED® 3 eco - Luminaire for on/off application, without automated lighting system, for dry cattle, separation rooms, working light and lower barns.

AGRILED® 3 mini - Multi-purpose luminaire for lower barns (< 3,0m), milking parlours & waiting area.



Red light in the AGRILED® 3



AGRILED® 3 mini

Made in Holland

Compact design, high-quality material choice and production in the Netherlands result in a low carbon footprint for the AGRILED® 3. This in comparison to other light solutions that are mostly made in Asia and that are transported around the world.

- Produced in own factory
- Low carbon footprint
- Use of recycled raw materials
- Designed conform EU "Ecodesign Directive"
- No use of disposable plastics in packaging

Light Management System (LMS)

The AGRIBOX pro enables light management of the luminaires to be fully automated using a DALI-2 signal.

The digital light sensor dims or deactivates the luminaires if the light levels in daytime are sufficient. This contributes to a better climate in the barn and extra saving on your energy costs.



Features AGRIBOX pro

- 5 groups
- 11 light programs
- Real time light level with light sensor
- User-friendly interface
- Energy saving

The AGRIBOX pro Switch completes your installation. This Switch de-energizes the luminaires for service and maintenance.

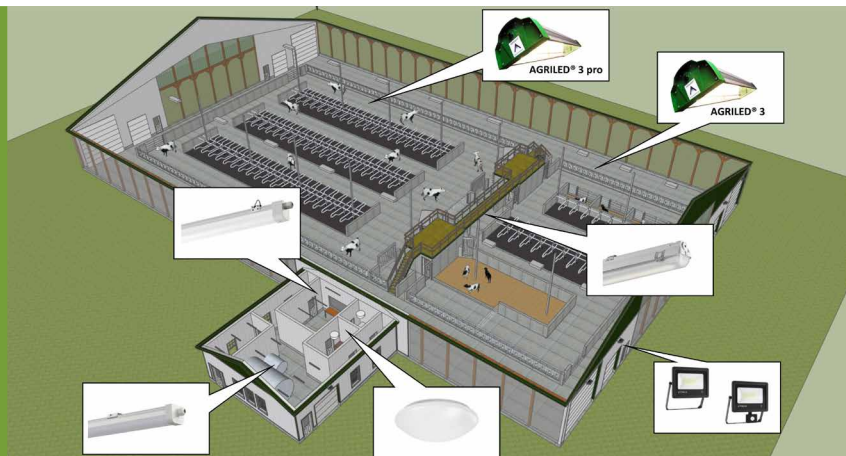
AGRILED® 3 series specifications

	AGRILED® 3 pro red	AGRILED® 3 pro	AGRILED® 3 red	AGRILED® 3	AGRILED® 3 eco	AGRILED® 3 mini
Lumen output	35.600	35.600	19.800	19.800	19.800	5.705
Power	240 Watt	240 Watt	134 Watt	134 Watt	134 Watt	43 Watt
Lm/W LED	156 Lm/W	156 Lm/W	153 Lm/W	153 Lm/W	153 Lm/W	163 Lm/W
Lm/W Wall plug	126 Lm/W	126 Lm/W	125 Lm/W	125 Lm/W	125 Lm/W	133 Lm/W
Light colour 4000K	✓	✓	✓	✓	✓	✓
Integrated red LEDs	✓	-	✓	-	-	-
Dali dimmable	✓	✓	✓	✓	-	✓
Surge Protection	Driver + LED	Driver + LED	Driver + LED	Driver + LED	Driver	Driver
Lifespan	100.000hr L90B50	100.000hr L90B50	100.000hr L90B50	100.000hr L90B50	100.000hr L90B50	100.000hr L80B50
Warranty	5 years	5 years	5 years	5 years	3 years	5 years

Agrilight Total Light Solution

With the Agrilight Total Light Solution you have the perfect lighting solution for all areas of the barn from one supplier.

Because every room has its own lighting needs, not every product is suitable for every room. These high quality luminaires meet the latest requirements for lighting and contribute to a pleasant working environment.



The expert in light for livestock

Agrilight has been supplying LED and conventional lighting systems to livestock farmers in Europe and North America for more than 20 years. As a member of the Dool Industries group, a group of companies. Specialised in supplemental grow lighting, we are at the leading edge of developments in lighting.

Agrilight can draw up a lighting plan for your livestock building free of charge and without obligation. Contact us via www.agrilight.com

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