

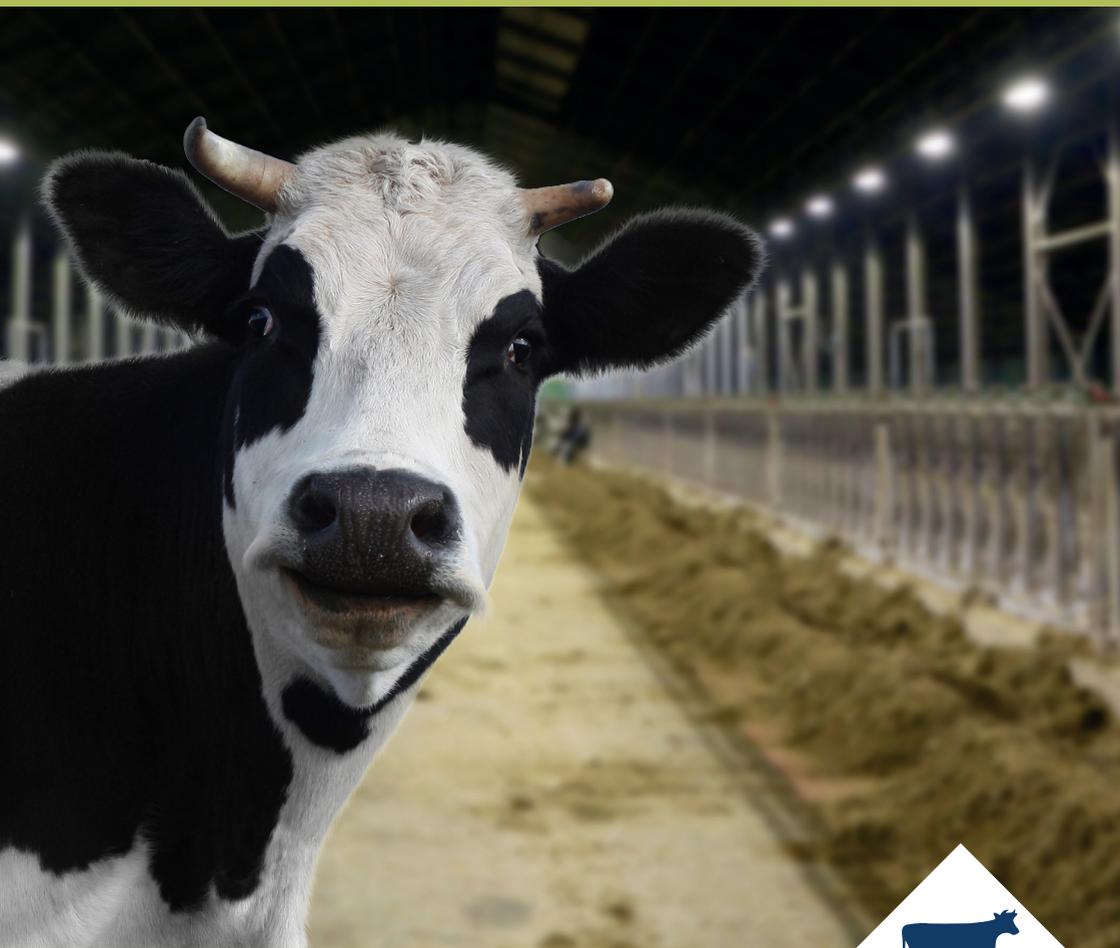
AGRILIGHT®



BETTER LIGHT, BETTER LIFE

AGRILED® pro Serie AL2007 Serie

Fully automated lighting
for your dairy



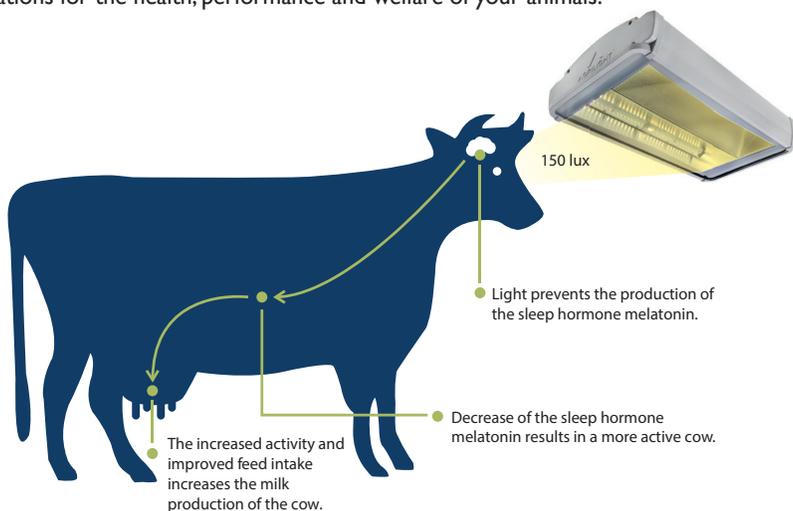
Influence of red light

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



Endocrine system

Using the lighting to increase the day length affects production of the sleep hormone: melatonin. Light inhibits melatonin production and darkness accelerates it: longer periods of light mean less sleep hormone and healthier, more active cows. This lighting regime effectively simulates long spring days: precisely the time when cows are naturally most active. The result is a better feed intake and higher production. An unsuitable light level or lighting regime can have implications for the health, performance and welfare of your animals.



Light regime dairy cows



16 hours light - 8 hours darkness



Light intensity: 150-200 lux



Better light, better life

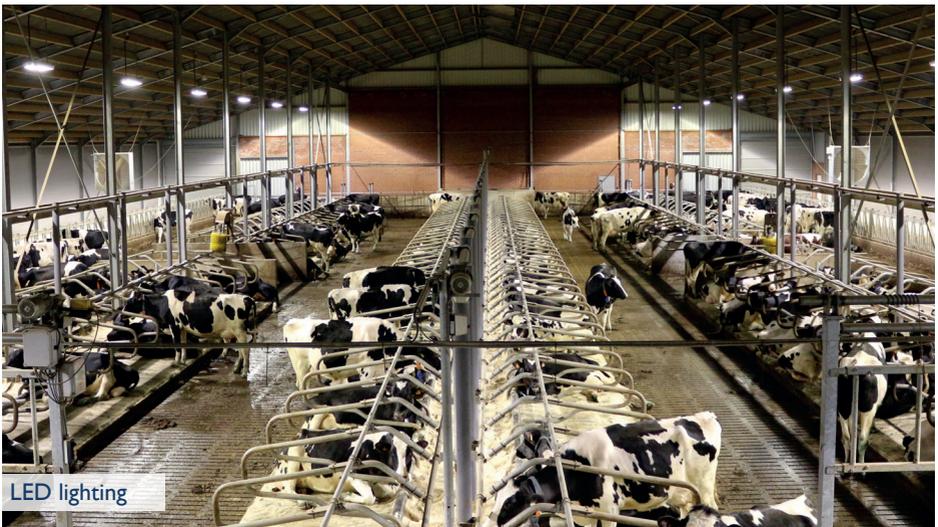
Welfare and profit

As a farmer your daily concerns are the welfare of your animals and their productivity. Your animals' health is a vital issue on your list of priorities. And it can be a challenge to strike the right balance between welfare and optimal profitability. It is maybe an aspect you don't think about every day, but lighting is an essential component of the equipment in your livestock buildings. After all, without good light you cannot do your work properly, and you might overlook vital signals that indicate the health status of your cattle. And, did you know that light can influence the milk production of your herd?

More light is more milk: innovative durability

For more than 15 years, Agrilight has been engaged in research into the influence of light on the welfare and productivity of animals. Scientific studies performed by the University of Wageningen demonstrate that optimal animal welfare is achieved with light levels of a minimum of 150 lux during the daytime. A lighting regime of 16 hours of light at a minimum of 150 lux, followed by 8 hours of darkness (maximum 5 lux) will improve both the welfare and productivity of the cattle.

- Up to 15% higher milk production
- Improved fertility
- Better oestrus detection
- Shorter calving intervals
- Better disease detection
- Less injuries in the herd



Agrilight Products

All Agrilight fixtures have been specially developed for use in livestock housing and agricultural buildings. Each fixture is optimally resistant to moisture, ammonia and dust.

Agrilight offers a range of solution to realise optimal light levels:

- the AGRILED® pro series; complete LED lighting
- the AL2007/AGRILED® red series; conventional lighting

AGRILED® pro series

These LED fixtures have been specially developed using the very latest LED technology and are therefore eligible for subsidies. The latest LED technology can help you save up to 60% on your energy bills. In combination with the AGRIBOX pro

and AGRIBOX pro Switch you will create an intelligent light management system, which thanks to features including dimming functionality will contribute to animal welfare and energy savings.



AGRILED® pro 32



AGRILED® pro 16



AGRIBOX pro

Options AGRIBOX pro

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

AGRIBOX pro

The AGRIBOX pro enables light management of the fixtures to be fully automated using a DALI signal. The digital light sensor dims or deactivates the fixtures if the light levels in daytime are sufficient. This contributes to a better climate in the barn, and saves on your energy costs. The AGRIBOX pro Switch completes your installation. This Switch de-energises the fixtures for service and maintenance purpose.

AL2007/AGRILED® red Series

Available with High Pressure Sodium (HPS) or Ceramic Discharge Metalhalide (CDM) lamp in 250 and 400 Watt. High Pressure Sodium emits yellow light, has a high light output and therefore high efficiency. Metal Halide emits white light and has a lower light output than the HPS model. The brighter white of MH light means that colour recognition is better compared with the HPS lamp. Both models are also available with an integrated red control light as AGRILED® red.

Agrilight developed the AGRIBOX to control optimal functionality of the AL2007 and AGRILED® red fixtures. The pre-programmed, integrated time clocks can be used to set a light program per group. Two light sensors can independently control the light levels of a maximum



AL2007



AGRILED® red



HPS lighting

CDM lighting

	AGRILED® pro 16	AGRILED® pro 32	AGRILED® red AL2007 CDM	AGRILED® red AL2007 HPS
Lumen output *	18.000 lumen	36.000 lumen	26.500/41.000	33.000/56.800
Power *	125 Watt	250 Watt	230/360 Watt	250/400 Watt
Lumen / Watt *	144 Lm/W	144 Lm/W	114 Lm/W	132/142 Lm/W
Light colour	Neutral white	Neutral white	Neutral white	Yellow
Integrated red LEDs	No	Yes	Optional	Optional
Dimmable	Yes	Yes	No	No
Life span *	60.000 hours	60.000 hours	12.000 hours	20.000 hours
Warranty	5 years	5 years	1 year	1 year

* light source

The expert in agricultural lighting

Do you want to maximise the performance in your buildings? Then good lighting is absolutely essential.

Agrilight has been supplying LED and conventional lighting systems to livestock farmers in Europe and North America for more than 15 years. As a member of the Dool Industries group, a holding specialised in supplemental grow lighting, we are at the leading edge of developments in lighting. At Agrilight, we combine this knowledge with insights gained by the latest scientific advances in the fields of animal welfare and livestock building design.

Agrilight can draw up a free, no-obligation light plan for your livestock building. After all, each specific situation is different. Discover the advantages of a well-designed light plan for your animals, your workforce and yourself. Contact us via www.agrilight.com

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