

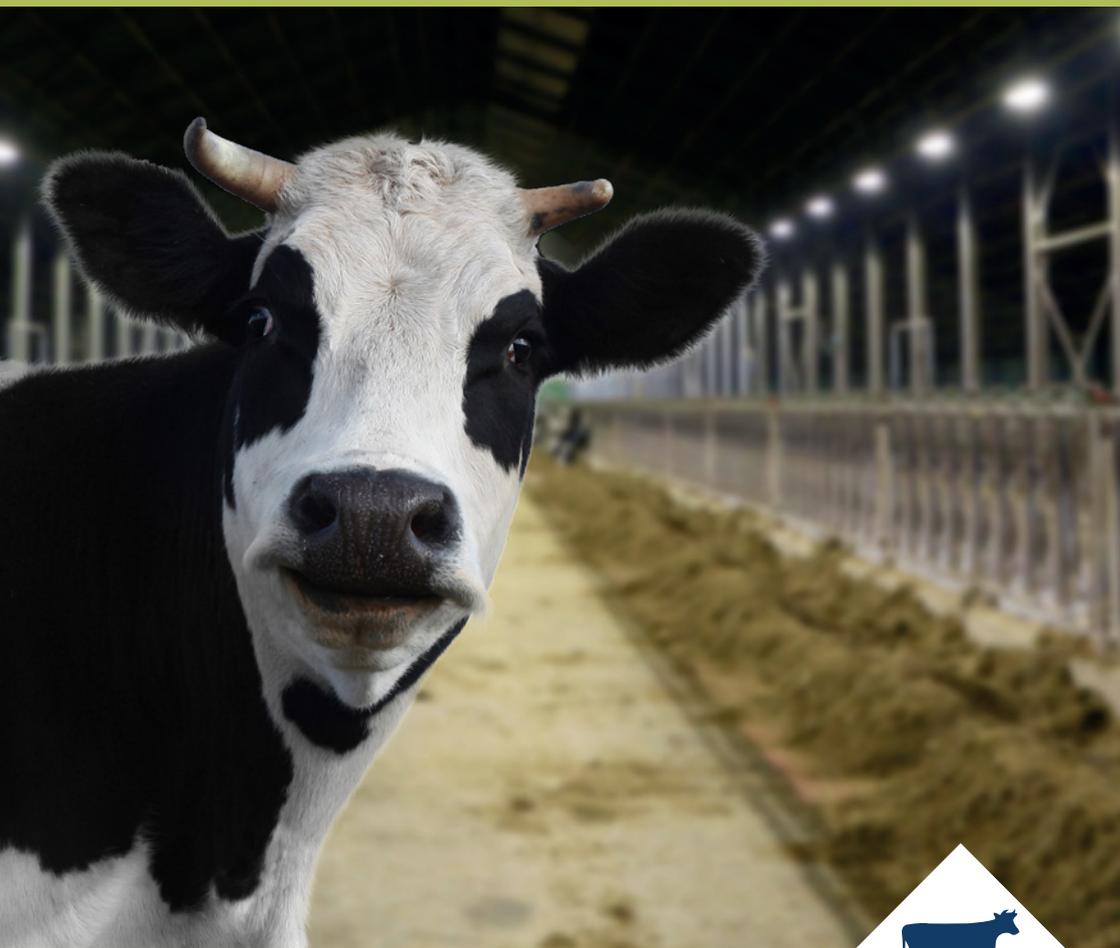
AGRILIGHT®



BETTER LIGHT, BETTER LIFE

AGRILED® pro Serie

Fully automated lighting
for your dairy





Better light, better life

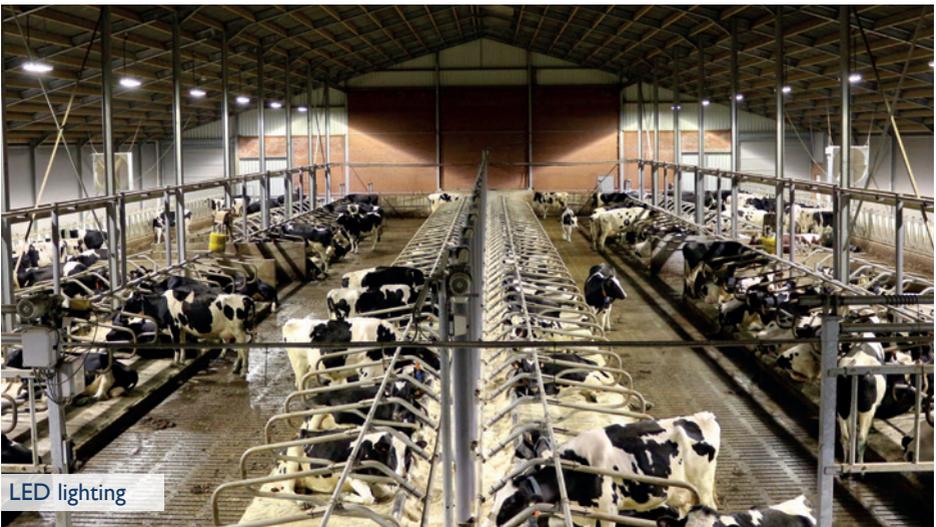
Welfare and profit

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 Wageningen University & Research (WUR) 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.

- 6-15% higher milk production
- Improved fertility
- Better oestrus detection
- Shorter calving intervals
- Better disease detection
- Less injuries in the herd



Influence of red light

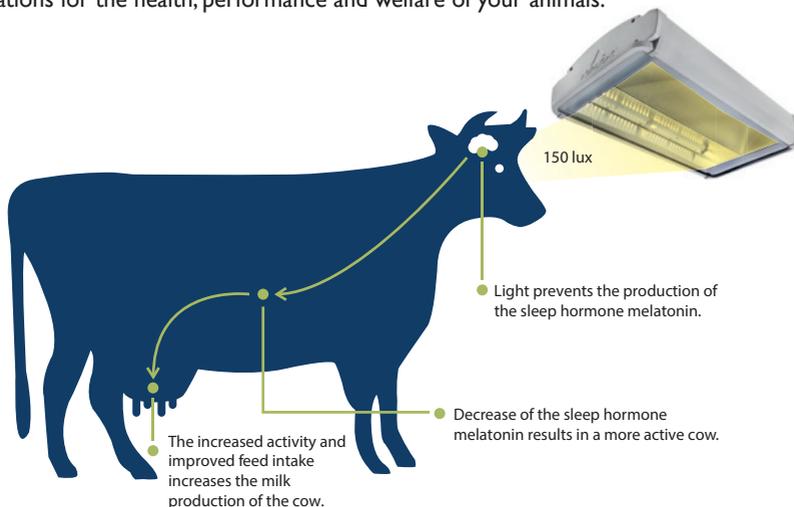
Scientific studies have revealed that dairy cattle hardly perceive red light and are therefore not disturbed while resting at night. The red LED lamp in the fixtures can be used to inspect your cattle in periods of darkness without the risk of upsetting their hormone balance.

Source: Shedding more light on light (WUR)



Endocrine system

Using the lighting to increase the day length affects production of the sleep hormone: melatonin. Light prevents 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

Dry cows

In preparation to a new lactation period, drying off is an important matter for dairy cows. The right light level in combination with the right light regime will have a positive influence on the dry cows.

- Higher milk production with the next lactation (+3.2 kg)*
- Less milk production due to lower prolactin value*

Placing the dry cows a few days before calving back to the light regime of 16 hours light and 8 hours darkness contributes to a higher feed intake before calving and the cows can get used to the higher light level.



* Source: Shedding more light on light (WUR)

Light regime dry cows



8 hours light – 16 hours darkness



Light intensity: 50 lux

Young stock

Young stock is the future milking cow, so why wouldn't we treat them the same? The right light regime combined with the right light level have the following positive results on young stock:

- Improved growth
- Faster puberty
- Higher feed intake
- Positive influence on the growth of the udder



Light regime young stock



16 hours light – 8 hours darkness



Light intensity: 150-200 lux

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.

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

Features AGRIBOX pro

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

Light Management System

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.

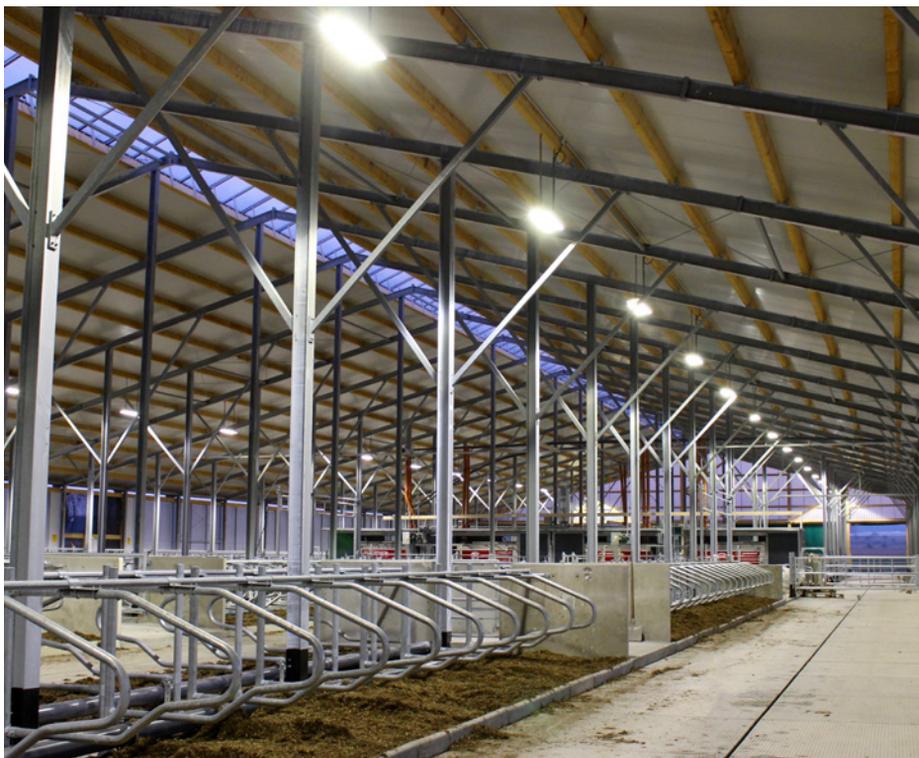
Checklist barn lighting

What should you pay attention to when purchasing barn lighting?

By answering 4 simple questions, you could get a clear image of the most important factors for barn lighting. This allows you to make an informed choice for the most suitable fixtures for you:

- ✓ Is the product suitable for the barn environment?
- ✓ How can I make maximum use of the effect of light on my business?
- ✓ Can I count on the projected lifespan of the LED fixture?
- ✓ Do I compare apples with apples?

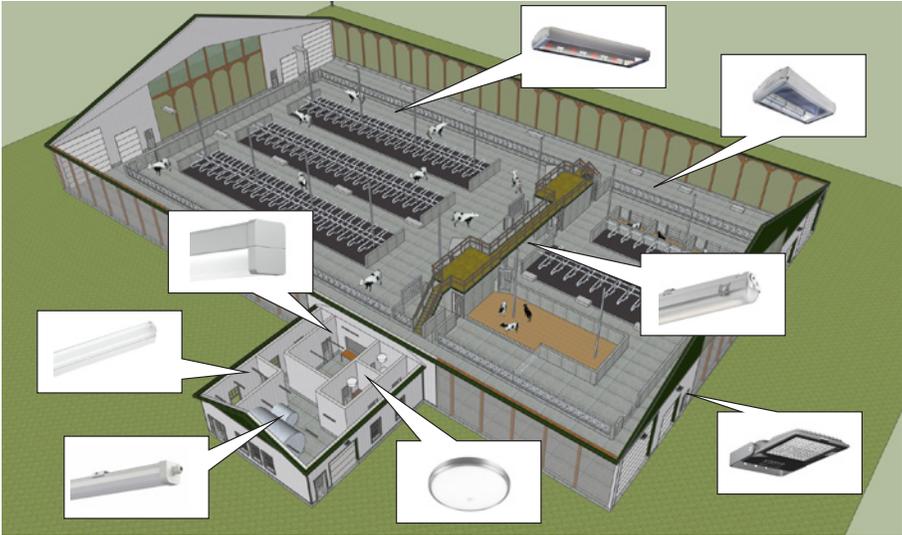
More information on these points can be found on our website (www.agrilight.nl/downloads) at “Checklist barn lighting - what should you pay attention to”.



Why should you choose the Agrilight Total Light Solution?

AGRILIGHT®
TOTAL LIGHT SOLUTION

With the Agrilight Total Light Solution you have the perfect lighting solution for every room in your barn. These high-quality light fixtures meet the latest requirements for lighting and contribute to a pleasant working environment.



Product name

Application

LED basic 9W	Storages
LED basic 12W	Lavatories
LED basic 17W	Technical rooms
LED basic 23W	Offices
LED basic 45W	Milking parlour and low areas
LED basic outdoor	Barn yard and overhead doors

- All light fixtures for the barn from one supplier
- High quality products with 5 years of warranty
- All controllable from one light management system
- The best light for in- and outdoor

	AGRILED® pro 16	AGRILED® pro 32
Lumen output *	18.000 lumen	36.000 lumen
Power *	125 Watt	250 Watt
Lumen / Watt *	144 Lm/W	144 Lm/W
Light colour	4.250K	4.250K
Integrated red LEDs	No	Yes
Dimmable	Yes	Yes
Life span *	100.000 hours L90B50	100.000 hours L90B50
Warranty	5 years	5 years

* 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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