



BETTER LIGHT, BETTER LIFE

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:

- 1. Is the product suitable for the barn environment?**
- 2. How can I make maximum use of the effect of light on my business?**
- 3. Can I count on the abandoned payback time of LED?**
- 4. Do I compare apples with apples?**



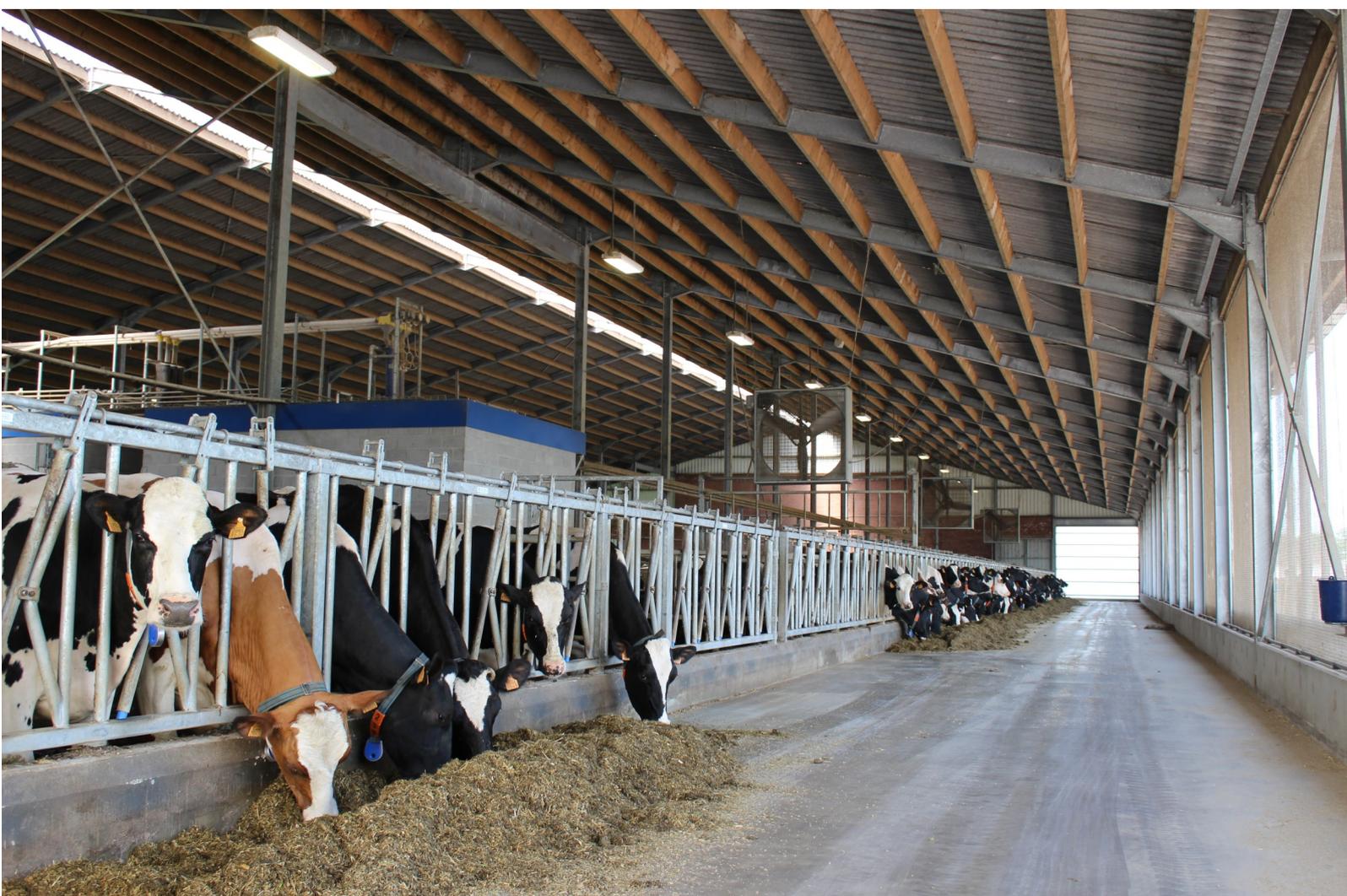


I. Is the product suitable for the barn environment?

In many cases, the LED lighting fixtures on the market are not designed for use in the barn. Many LED fixtures are especially suitable for use in cleaner environments such as industrial halls.

In the barn, pollution and ammonia have a major influence on the functioning and lifespan of the equipment. The barn environment can not be compared with a sterile environment. The design of the fixture housing is very important. The housing must be able to efficiently transfer the heat generated by the LEDs, even if the fixture is contaminated to some extent. If heat transfer is not well regulated, problems will occur with 100% certainty, whereby the specified service life will not be achieved. In addition, poor heat dissipation in the case of a contaminated fixture can lead to a decrease in the light output of the LEDs.

In other words, fixtures that are not specifically developed for the barn environment are in most cases not suitable for use in stables. We strongly advise you not to use this type of (industrial) fixtures, to avoid disappointment.



Agrilight develops all its lighting fixtures on the basis of specific stable environmental factors. Especially heat management, moisture and ammonia resistance are extremely important factors that play a major role during the development of a new fixture.





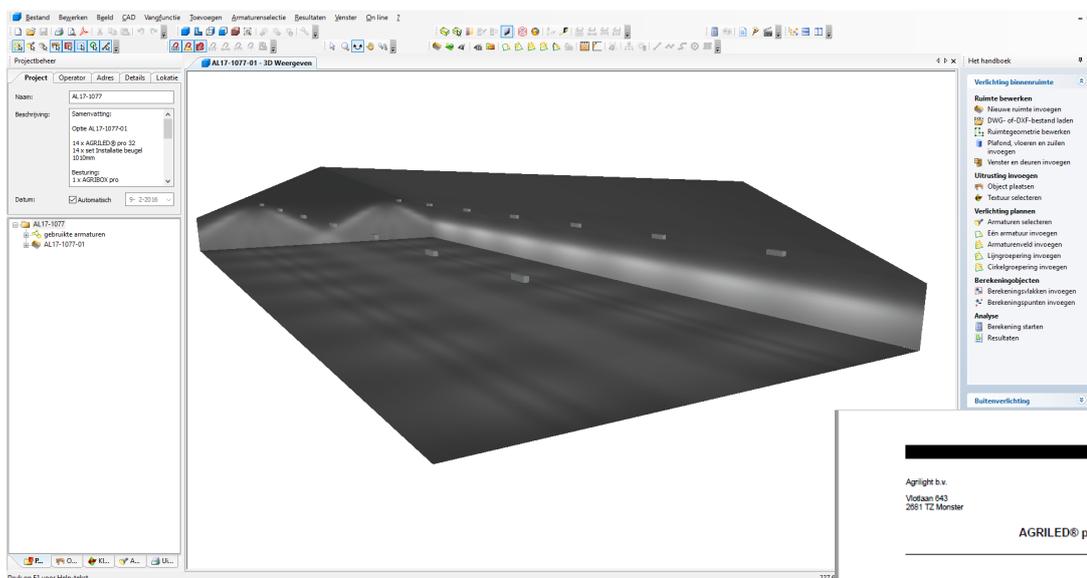
2. How do I make maximum use of the effect of light on my business?

Agrilight communicates the functioning of its fixtures to you as a customer on the basis of scientific research. In addition to sufficient light (measured in lux at floor level), even light distribution through the barn is of great importance.

A good light distribution ensures that the animals spread better through the barn. This leads to better animal welfare and it also means that the less dominant cows get a good place at the feed fence. This allows you to make optimum use of your investment in, for example, a robot and / or feed pusher.

Good lighting is not only good for your cattle. It also makes work a lot easier for you as a farmer. So you are not dependent on daylight and you can also do your work in the evening and in the dark months, whenever you want.

An investment in a good light installation is not only interesting because of the above mentioned items. If you opt for LED lighting, this implies a significant decrease in energy consumption. This way you can earn back the purchase costs in the short term. Incidentally, an investment in a lighting installation is relatively small. It amounts to only 2% of total barn investments



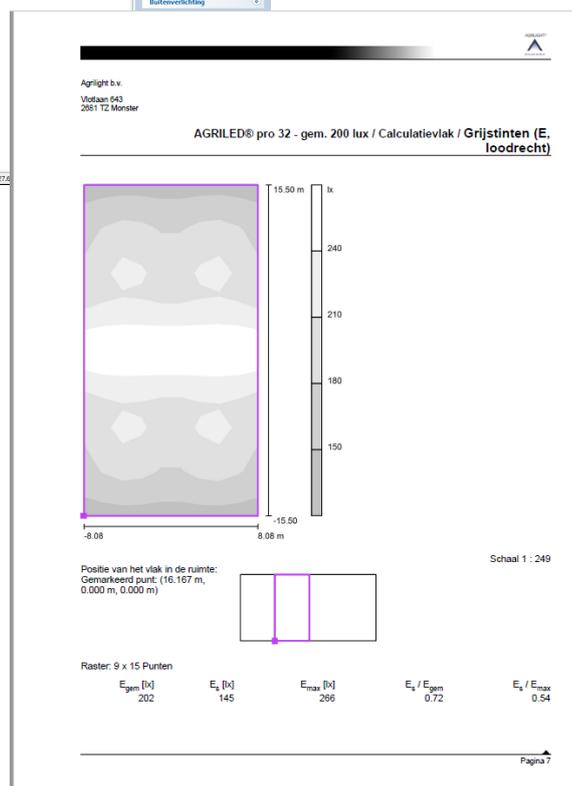
Agrilight makes all its lighting plans in DIALux: the international standard in light calculations

Agrilight does not apply unrealistic reflection percentages in its light calculations, which could artificially increase the light output. This in contrast to other light providers.

We always measure the light output at floor level and not at animal height. This ensures that in practice you achieve the light levels that are indicated in our lighting plans.

Did you know that a light level of at least 150 Lux is required to create positive effects on the animals? This is the starting point of all our calculations.

If you have any questions, you can always contact one of our specialists.



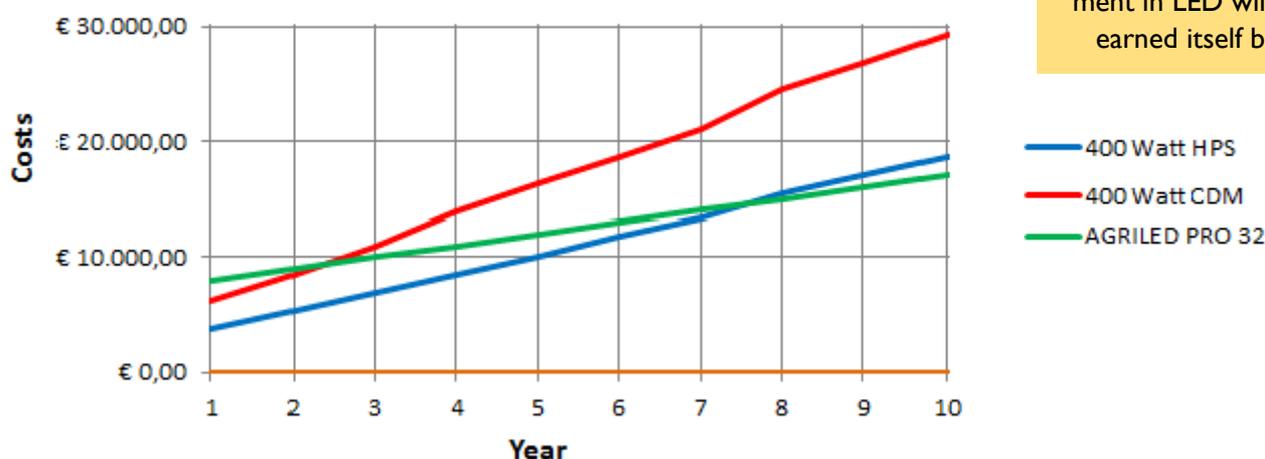


3. Can I count on the specified payback time of LED?

Agrilight uses a calculation model that gives a truthful representation of the payback time by means of different variables. Data such as energy price, maintenance costs and the comparison of LEDs with existing conventional lighting form the basis of these realistic calculations.

Since we sell both conventional lighting and LED, we can provide independent advice. If an investment is not beneficial, we will inform you honestly and transparently. So be critical of general assertions that can not be clearly substantiated if you ask for this.

Costs cumulative AGRILED® pro / HPS / CDM



By combining the costs of the various options, we can give you a clear insight into when the investment in LED will have earned itself back.



Agrilight has developed a fully automatic control system for its LED products.

Thanks to an innovative cooperation between the light sensor and the control box (AGRIBOX pro), the light in your barn will only burn when it is actually needed!

Outside light that also enters the barn provides a variable lighting requirement. In other words; the LED fixtures automatically dim if there is sufficient outside light to reach the requested light level.

This also ensures extra savings in energy costs.





4. Do I compare apples with apples?

It is obviously tempting to choose the lowest price per fixture. However, a lower price per luminaire does not mean a lower total price for the entire lighting installation.

An important value that needs to be monitored for LED products is the Lumen-per-Watt ratio (Lm / W). Lumen is the unit in which light output is measured. The higher this ratio, the more light a fixture gives per consumed power.

This efficiency is directly related to the quality of the used LEDs and other components. This can also indirectly say something about the lifespan of the luminaire.



All Agrilight fixtures have been developed and produced in the Netherlands.

Agrilight strives to supply its products with the highest quality materials and components.

Another important point to keep in mind is the light distribution. A fixtures can give so much light, but if this is not properly distributed, many fixtures are still needed to get a certain minimum light level everywhere.

If a fixture emits all light downwards, there will only be a lot of light directly under the fixtures. If a luminaire also emits the light to the side, the illuminated surface becomes larger. Less fixtures are then needed to illuminate a certain area.

It could just be that with a cheaper LED luminaire you need twice as many luminaires to achieve a certain light level, than with a type of luminaire that is positioned in a higher market segment.

AGRILED® pro fixtures can spread light up to 24 meters wide.

This means that in many cases only one row of luminaires is needed to properly illuminate the barn.





Finally

Agrilight has over 15 years of experience in barn lighting. We want to use this experience to give dairy farmers a checklist with points for attention, in which the most important quality requirements and arguments in the choice of new barn lighting are discussed.

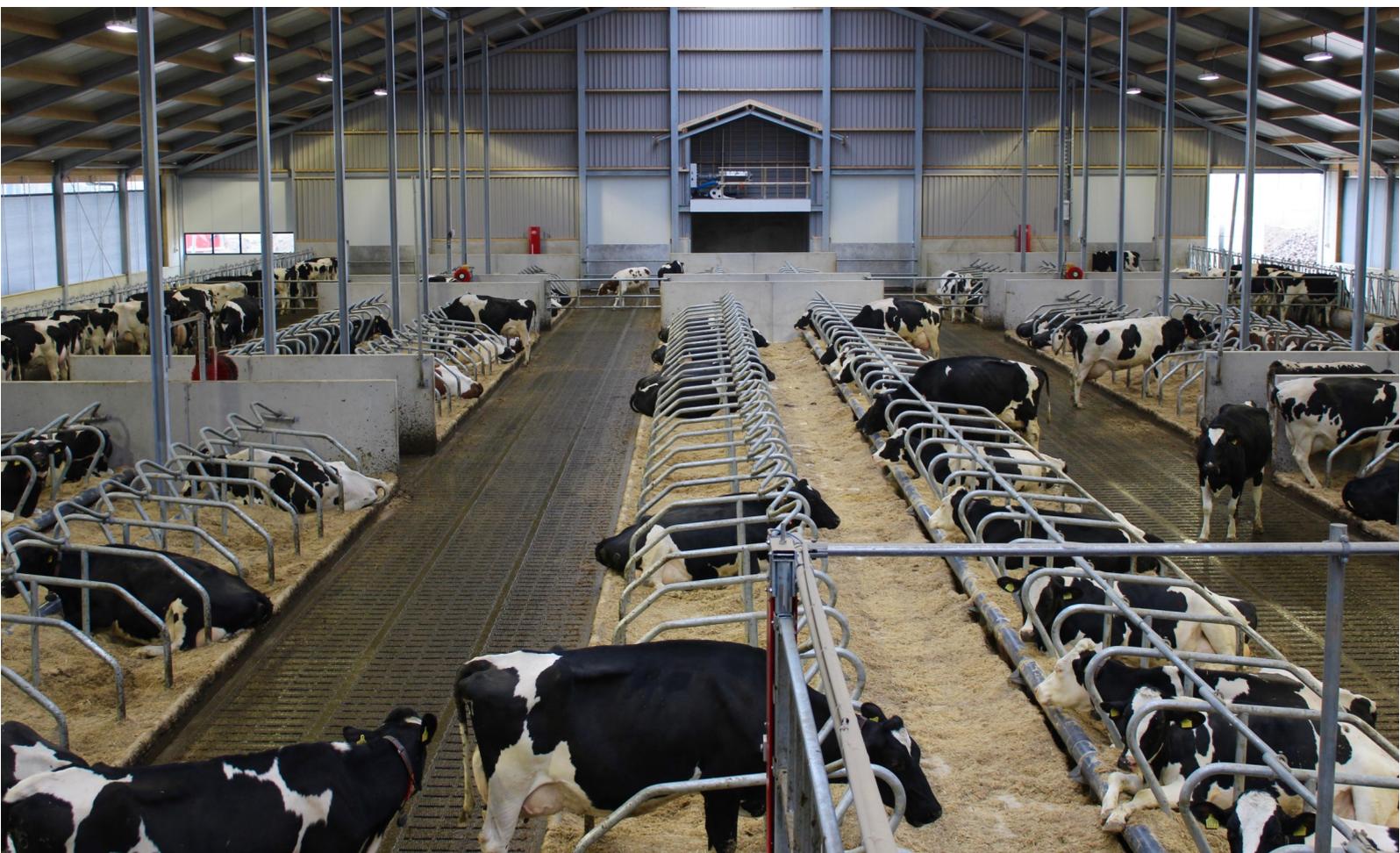
Apart from the fact that the right lighting for your dairy cattle can lead to higher milk production, a shorter intermediate calving period and better animal welfare, well-considered choice of lighting also contributes significantly to energy saving and therefore sustainable business practices.

The LED luminaires from Agrilight are eligible for different subsidy programs.

With this checklist we, as Agrilight, want to make the important points of attention clear to you.

Do you have more questions?

Of course you can always contact Agrilight to have further advice from one of our lighting specialists



/ Contact:

Agrilight B.V.

Vlotlaan 643

NL- 2681 TZ MONSTER

Tel: +31 (0)174 287 287

E-mail: info@agrilight.com

Internet: www.agrilight.com

