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Important information: LED saves light in the barn - seven good tips

Be critical when replacing fluorescent tubes in the barn with LED, so that you get maximum effect.

Sep 5, 2019 12:55 p.m

Written by [Frederik Thalbitzer](#)



LEDs in a cattle shed.

Photo: Archive photo

Installing fluorescent tubes in pig and cattle sheds with LED lighting has many advantages. One of them is that you typically save 40-50 percent on energy consumption. And since an LED tube has a lifespan of approx. five times longer than a fluorescent tube, you shouldn't ski tubes near that length either.

However, you have to prepare the sking for LED on a number of points.

The Danish Energy Agency has seven good tips about LED.

1: COLOR REPRESENTATION

For example, it is important that the lamps reproduce the colors correctly. Color rendering is measured in Ra, and you must choose a Ra of at least 80. If you find that the color rendering is not good enough, go for a higher Ra of 90 or more.

2: ENERGY BRAND

To get a big saving you should go for eler LED with A+ or better.

3: COLD OR WARM LIGHT

The color temperature of the light is measured in kelvin. Warm light of 2,700-3,300 K is reminiscent of incandescent light. 3,300-5,000 K gives a neutral light, while over 5,000 gives a cool light that corresponds to daylight in the middle of the day. The color temperature of the light can have an influence on the well-being of the animals, and it is therefore worth investigating.

4: THE LIGHT STRENGTH

The strength of the light must match the fluorescent tubes that are separated, and otherwise comply with the rules of the working environment legislation for light in work areas in stables. Brightness is measured in lumens.

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5: LIGHT DIFFERENCE

LED tubes also have a different and narrower light spread than normal. fluorescent tube.

6: DAMPING

Not all LED tubes can be dimmed.

7: QUALITY

The influence of ammonia and moisture in the barn can be a challenge for LED tubes/luminaries.

Source: spanerergi.dk/erhverv/landbrug

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