

The importance of Flicker-Free lighting

It is crucially important to recognise that poultry do not see the world in the same way as we do.

In addition to being able to see a much broader spectrum of light, poultry also have a much greater perception of the frequency or pulsing of light.

To understand why, we need to go back to nature. In the wild, poultry are constantly on the lookout for birds of prey. They are programmed to notice changes in the light above, which might indicate the presence of such predators. A bird of prey flying overhead can cause shadows that appear to flicker as it moves quickly through the air.



Indeed, poultry see flicker at frequencies of up to 205 Hz per second whereas we humans see only constant light above 25 Hz.

Consequently, flicker in lighting systems, which may be imperceptible to human eyes, is perceived by poultry as a predator threat. Minimising or indeed eliminating flicker helps provide a safe, comfortable home for poultry and can significantly reduce stress.

Since most lighting systems are designed for humans, it is understandable why flickering is not a concern.

Traditional lighting such as fluorescent tubes have a particularly poor flicker profile, whilst even high-quality LEDs, which have been designed for human use and operate at a frequency between 50-100Hz, are also unsuitable for use in poultry barns.

This is why it is so important to choose an LED system which has been specifically designed for poultry and is flicker-free.

Choosing a flicker-free LED system will reduce stress in poultry flocks and thereby encourage more natural behaviour, improve feed intake, reduce undesirable behaviour such as pecking and increase resistance to disease, all of which can significantly reduce mortality rates and improve flock performance.

All Gallina LED poultry lighting products are completely flicker-free!

LED: Improve Performance, Improve Welfare, Save Energy!