

Lighting Solutions for Animal Husbandry

By Vossloh-Schwabe

www.vossloh-schwabe.com



Lighting Manufacturer : Vossloh-Schwabe

Making Targeted Use of Spectral Lighting

When used in the field of animal husbandry, modern LED technology is not only more energy efficient than conventional lighting, it also gives farmers, the industry in general, universities and research facilities the means with which to exert targeted influence on the growth and wellbeing of livestock. Vossloh-Schwabe also conducts research into and develops new products for this field of application. In the area of animal husbandry, the factors of light quantity and the type of light are also decisive for animal wellbeing and health. Studies have shown that lighting programmes exert a positive effect on such things as milk yield, physical growth and reproduction. LED lighting can be tailored to suit the specific requirements of livestock and also provides uniformly bright light in enclosures. Integrating Vossloh-Schwabe solutions provides added value for your products.

Our many years of experience as well as numerous successful reference projects allow us to develop standard solutions. Our standard products are operation-ready or can be integrated into existing systems as individual components. In the form of the VS-L-0103, Vossloh-Schwabe has developed a versatile and efficient 1- to 4-channel control solution for animal husbandry. By making targeted use of spectral light, this solution makes it possible to optimise animal wellbeing and provides pinpoint control of the growth of livestock. As a result, intelligent light control lets you exert direct influence on yield optimisation and quality improvement.

Vossloh-Schwabe combines and tailors the latest COB technology with optics, drivers, sensors and control options to suit your specific area of application. By listening, understanding and implementing in close cooperation with our customers, we can plan, develop and manufacture solutions that are individually tailored to suit your specific project. From the first enquiry through the entire development process and right up to seeing your product through to practical use, our engineering team is at your disposal as a personal point of contact. Furthermore, optical and thermal simulations go to optimise the final product in advance.

Every animal species needs a specific light spectrum to optimise the growth process or its wellbeing. The combination of selected wavelengths and special phosphorous formulations opens up the field of targeted spectral lighting for livestock. Our years of experience in



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the field of COB technology and the implementation of special spectral excerpts in the field of animal husbandry as well as in the field of general lighting enable us to respond to individual customer requirements and satisfy bespoke spectral light requirements.

Spectral LED lighting is used in the following fields:

- Livestock enclosures
- Small-animal husbandry
- Breeding enclosures
- Research facilities
- Climate chambers
- Field lighting (mobile facilities)

Vossloh-Schwabe continues to support and invest into future-pointing projects such as:

- High-tech farming
- City farming