

Broiler Case Study

Lower Oakley Farm, Somerset

Biolumen Nature Perfect lighting technology is shown to improve bird welfare by reducing vice and improving feeding. Ultimately an improvement in FCR results in a 19 month return on investment even before taking electricity savings into account.

The broiler house was compared to an identical unit with traditional lighting in place

1st Year Results

- New arrivals settling and spreading quickly and evenly.
- Earlier feeding and noticeably reduced early mortality rate.
- Reduced food wastage resulting in cleaner house floors.
- Calmer birds, with fewer signs of aggression.
- Better feather coverage.
- Statistical analysis shows an overall improvement in FCR, resulting in lowered feed to reach target weight.



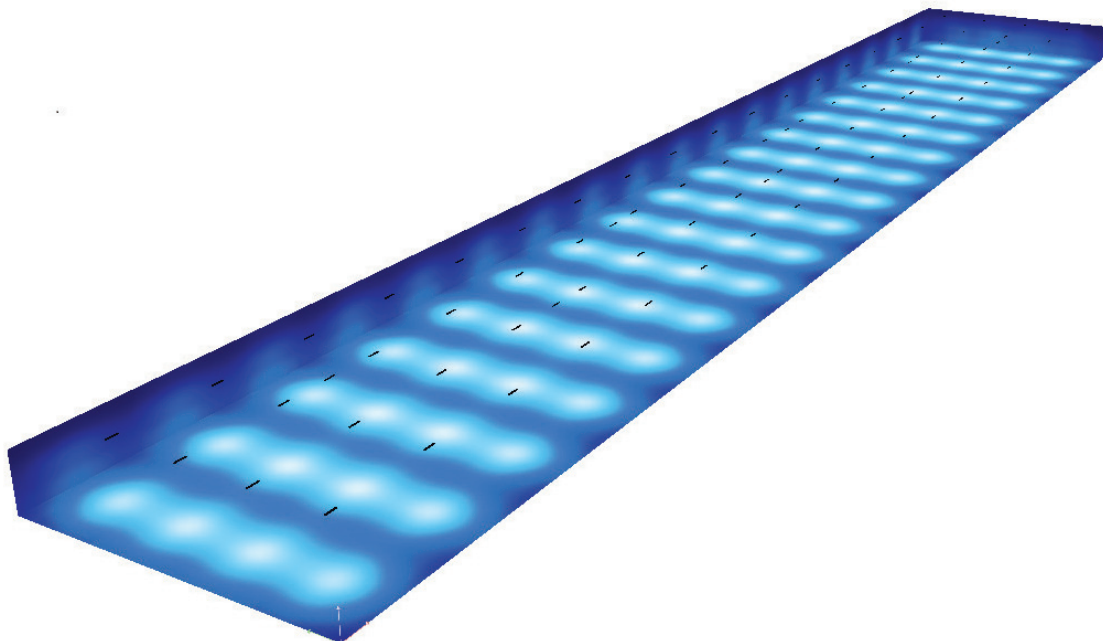
Specification

Size of Building: 75 x 11.8m

Lights: 72 x BioLumen Ocean Blue Strip LED, plus 8 x BioLumen NUV Strip LED, designed to improve the visual acuity of the birds

Mounting: 4 rows of catenary wire at 2.1m height

Control: 1 x BioLumen Control Unit to allow flexible photoperiod control



Broiler Case Study

Saving Calculations

Cost of equipment	Feed saved per crop	Cost of feed	Annum savings
£5790	2.6 tonnes*	£260 per tonne	£3718

ROI of 19 months BEFORE electricity savings

*based on average of 10450 birds arriving at factory



Technology

Biolumen lighting includes our patented Nature Perfect blue LED technology which is comfortable for humans to work under, but also perfectly placed to improve animal visual acuity as well as entrain hormonal processes with the use of proper control of light/dark periods.

- ✔ Low Energy
- ✔ Suitable for Harsh Environments
- ✔ +3 Year Warranty
- ✔ Low Carbon Footprint
- ✔ IP67 (waterproof)
- ✔ UK Designed
- ✔ Low Voltage
- ✔ Resistant to Ammonia
- ✔ UK Based Support
- ✔ Easy Installation
- ✔ Impact Resistant

Nature **NP**TM
Perfect



UK
Solesbridge Lane
Chorleywood
Hertfordshire
WD3 5SX
London

Call +44 01923 284151

Iberia
Rua Cidade de Paris 6
Parque Industrial do Arneiro
2660-456 São Julião do Tojal
Portugal

Call +351 219 739 140

biosystems-tmc.co.uk

info@biosystems-tmc.co.uk

