

BIRDIE LIGHT

LED colour lighting that works for you - fewer floor eggs, less feather pecking, higher production



BIRDIE LIGHT in use - warm red light over nests and system, cool blue light in the floor zone.

Lighting that pays for itself

BIRDIE LIGHT is a complete LED lighting concept for multi-tier (aviary) systems, developed specifically for layers and pullets from week 18.

We use colour technology to guide the hens' natural behaviour, giving you a calmer flock, fewer floor eggs and lower losses.

In short: lighting that works for both the birds and your bottom line.

Fewer floor eggs	Less feather pecking	Calmer flock
The hen is guided up into the nest by warm yellow/red light - and away from the floor.	Under red light, the hen cannot see blood as clearly - and pecking behaviour drops markedly.	Cool bluish light under the system dampens unwanted activity in the floor zones.

Application

Multi-tier (aviary) systems - ceiling, nests, system and floor zones.

Light adapted to each zone

Hens prefer warm yellow and red light. By dividing the house into colour zones, we control the hens' movement pattern throughout the day - completely naturally, with no extra work for you or your staff:

- ✓ **Ceiling:** Red light reduces the hen's ability to see blood - and thereby the risk of feather pecking and cannibalism.
- ✓ **Nests:** In the system, warm yellow/red light encourages the hen to move up and lay eggs in the right place.
- ✓ **Floor zone:** Under the system, cool bluish light makes the area unattractive and guides the flock upward during egg-laying.



Red light in the system: calmer flock and reduced pecking behaviour



White and blue under the system: guides the flock upward during egg-laying

Fixtures developed for each zone: 3 solutions

Ceiling	Nests	Floor zone
LAYER-LIGHT MIX-TO-RED	AVIARY-LIGHT MIX-TO-RED	AVIARY-LIGHT MIX-TO-BLUE
General lighting with white and red light.	Warm red light that creates calm and guides the hens towards the nests at egg-laying.	White and bluish light that makes the floor zone less attractive and guides the flock upward.

Simple, reliable and 100% Plug 'N Play

The entire system is 100% Plug 'N Play. This means faster assembly, fewer installer hours and lower risk of errors - also when expanding or servicing later.

System voltage	48 VDC
Drivers	Mean Well - available in both 115 VAC and 230 VAC
Cabling	Flat interconnecting cables, 3 × 2.5 mm ² - heavy cross-section for long runs and minimal voltage drop
Flat cable design	The fixtures don't twist when mounted close together - cleaner installation, fewer adjustments



Plug 'N Play cables for 0-10V control current



Flat interconnecting cable, 3 × 2.5 mm².

Drivers and control

Control is simple: each driver is controlled via 0–10 V from your existing house computer or lighting control system. If the house computer doesn't have enough 0–10 V outputs, the system can be expanded with an extra control unit, without moving day-to-day operation away from the house computer.



MeanWell drivers are supplied complete as 100% Plug 'N Play – requiring only 1 × 13A CCE plug per driver set.



Finished mounting plate for MeanWell drivers.

White-light driver	320 W (typical configuration)
Colour driver	240 W - red or blue
Control interface	0–10 V from house computer / lighting control
Typical requirement per house	Minimum 6 × 0–10 V outputs - 2 for ceiling, 2 for nest, 2 for floor zone
Recommended	House computer with 6–10 × 0–10 V outputs depending on house design

The fixtures

Ceiling lighting — LAYER-LIGHT MIX-TO-RED



LAYER-LIGHT MIX-TO-RED — 1500 mm, 3000K 18W + red 8W.



Ceiling lighting installed in a layer house with a multi-tier system.

Output	3000K: 18W + red 8W
Length	1500 mm
Mounting	Suspended on piano wire or similar
Interconnection	Plug 'N Play, 225–450 cm between fixtures
Mounting height	Typically 2.5–4 m above floor

Installation tip: Mount as close to the ceiling as possible — or run an extra wire above the fixtures — so the hens don’t use them as a perch.

Nests (in the system) — AVIARY-LIGHT MIX TO RED



AVIARY-LIGHT installed in the multi-tier system.



Red light in the system creates a calm flock and guides the hen towards the nest.

Output	3000K: 5W + red 3W
Length	2150 mm
Cable	400 mm - integrated in the fixture

Floor zone (under the system) — AVIARY-LIGHT MIX TO BLUE



AVIARY-LIGHT installed under the multi-tier system.



MIX TO BLUE is available with 180° spread - one row covers up to 250 cm.

Output	3000K: 5W + blue 3W
Length	2150 mm
Cable	400 mm - integrated in the fixture
Optics	2 options: integrated special lens with 180° or 145° light spread

Distribution tip: For an aviary width of 250 cm, one row under the system is typically enough — thanks to the 180° spread of MIX TO BLUE. This saves fixtures, cabling and installation time. For widths over 250 cm, we instead recommend two rows with a 145° spread.

Why producers choose BROILIE

- ✓ 100% Plug 'N Play
- ✓ 180° light spread on MIX TO BLUE — fewer fixtures, same coverage
- ✓ Flat cables - the fixtures sit neatly, even when mounted close together
- ✓ Documented colour strategy - controls the hen's natural behaviour
- ✓ Works with your existing house computer - 0–10 V standard, or we supply the control unit
- ✓ Robust quality — IP69K
- ✓ Flicker-free lighting



Ready to see the numbers for your house?

Give us a call - we'll quickly calculate a solution that fits your house and your operation.



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