

# FARMING

2019





Farmers demand robust and long lasting lighting solutions to save costs and stimulate productivity.



## The challenges

### Chemicals

Ammonia is especially present in poultry farms due to the decomposition of organic matter.

There are also sulphur, detergents and disinfectants.

Choosing the right material avoids premature damage in luminaires, even the polycarbonate may fracture.

### Dust and vapours

Exposure to moisture and fumes over long periods can damage the electronic components inside the luminaires, and dust can reduce light output.

Robust products with high IP rating are required, even up to IP69K.

### Humidity

Apart from ambient humidity, some farms use high pressure and high temperature cleaners to guarantee hygiene and minimise the risk of animals diseases.

This is why sealed luminaires are a must.

### Temperature

Heating systems are used to improve performance, which can increase temperature on the ceiling.

LED luminaires need to resist these conditions.

### Maintenance

Management and maintenance of the lighting affect energy efficiency.

Luminaires which do not accumulate dirt and with easy cleaning, improve useful life and reduce maintenance costs.

### Animals comfort

Reducing animals stress improve its well-being and performance.

Flicker-free lighting creates a calming atmosphere.

## The solution

- LED luminaires increase energy efficiency in installations where lighting is used 24/7 to optimize production.
- Longer useful life and resistant materials provide peace of mind over long periods.
- Robust luminaires with easy installation reduce installation and maintenance costs.
- The right light level helps in the daily operations, enhancing employees and animals safety.
- Optional intelligent controls and sensors increase energy savings through better use of the light.
- Transition from light to darkness is done naturally to reduce stress from sudden light changes.



## The products



STRONGERTUBE

### The strong solution

Up to 145lm/W

Up to 9,000lm

L80 100,000 hours

Double asymmetric light

Gas tight



IP 69K

IK 10



ZALUX BASE PMMA

### Simple, effective and protected

Up to 135lm/W

Up to 6,000lm

L70 70,000 hours

Diffuse light

Gas tight



IP 69K

IK 03



PEM T-LED

### Traditional alternative with a premium tube

Up to 158lm/W

Up to 7,300lm

L70 50,000 hours

Diffuse light

2 tubes version



IP 65

IK 03



## Benefits

### High resistance to ambient conditions

- Chemical resistant PMMA with UV protection and extra thickness to guarantee robustness.
- Round shape to avoid accumulation of dust and insects nesting on the luminaire.
- IP69K protection appropriate for cleaners with water up to 80°C and 100 bar pressure.

### Fit and forget

- Specific potting process gas tight, which prevents the penetration of ammonia and corrosive chemicals.
- Excellent thermal management.

### Quick, flexible and safe mounting

- 3m supply cable.

### Excellent price-performance ratio

- High chemical resistance with extrusion PMMA body and UV protection.
- The construction of the product guarantees IP69K, suitable for farming.
- Completely sealed to protect LED module and electronics from premature ageing.

### Reliability over time

- Gas tight to avoid the ingress and condensation of gases.
- Resistant to acids and sulphur vapours.

### Keep it easy and reliable

- Stainless steel fixing clips and 3m cable connected to the luminaire.

### Protected openable luminaire

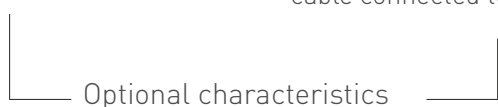
- Real IP66 protection guaranteed by its polyurethane gasket.
- Chemical resistant: fibreglass reinforced polyester body and PMMA diffuser with UV protection.
- Prismatic design for an optimum light distribution.

### Easy installation and maintenance

- European weatherproof with easy maintenance and one of the best LED tubes.
- Stainless steel closing clips to facilitate installation.

### As simple as an LED tube

- One of the most efficient LED tubes on the market, up to 170 lm/W.
- Made by glass to prevent sagging.



- Different colour temperatures
- Dimmable DALI
- Through wiring
- Intelligent wireless control
- Presence and daylight sensor



In farms, the right light and luminaires are as important as ventilation, heating and cooling, as they influence animals behaviour and productivity.

ZALUX luminaires are developed for the challenging farming environments, such as stables, mills, farms or granaries.

- Resistant materials avoid the damage caused by corrosive elements.
- Special potting process of IP69K does not allow the income of gases into the luminaire.
- Excellent thermal management to resist high ambient temperatures during long times.
- Polyurethane gaskets increase protection against humidity.
- Flicker-free drivers ensure the correct light for an optimum growth of animals.
- Stainless steel fixing clips and incorporated cable facilitates installation.

ZALUX is since 1980 your expert partner for weatherproof luminaires. Developed and manufactured to achieve high efficiency, maximum safety and optimal functionality.

Perfectly made for all conditions



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