

ONCE® Products Designed for Layers and Breeders and Pullets

AgriShift® TLL for Layers

The AgriShift® TLL in-system tube light provides producers with lighting that meets the needs of today’s modern poultry houses. Made with Dim-to-Red® technology, it provides a more uniform and continuous light pattern, leaving birds noticeably less stressed and calmer. *Available in 24” 1 or 2 tube assemblies, with various cord lengths.*

AgriShift® JLL for Layers and Breeders

The AgriShift® JLL 8W LED makes improving the production of your bird easy by providing natural daylight simulation with it’s species-specific technology. There are two formats—the Tall version is best suited for enrichable and traditional houses, while JLL Short is best suited for aviary and cage-free applications.

AgriShift® MLM-R for Layers and Breeders

The AgriShift® MLM-R makes it easy to improve production and animal welfare by providing species-specific daylight simulation. The red spectrum used has been shown to decrease time to peak production by stimulating the release of two reproduction regulating hormones essential for sexual maturation and daily egg laying.

AgriShift® EL for Layers

The AgriShift® EL is an easy-to-install low-profile LED designed with species-specific technology to benefit the vision of your animal. The deep red saturated output provides natural daylight simulation throughout inspection aisles on standard, enriched or aviary systems.

AgriShift® MLM-G for Pullets

The AgriShift® MLM-G provides the most advanced agricultural lighting solution on the market today. Designed to replicate a bird’s natural habitat, the AgriShift® MLM-G illuminates a natural jungle green light spectrum that meets bird developmental needs at all stages of growth, while improving animal welfare.

AgriShift® MLM-B for Pullets

The AgriShift® MLM-B 10W fixture with Dim-to-Blue® technology is an animal welfare-friendly poultry lighting solution made with an optimized color spectrum with full dimming capability, meeting the birds’ developmental needs at every stage of growth.

AgriShift® TLP for Pullets

The AgriShift® TLP in-system tube light is designed specifically for today’s deeper and more spacious pullet systems. Designed with Junglite Green™ technology and a Built For Your Barn® structure, the AgriShift® TLP enhances animal welfare and improves bird uniformity. *Available in various cord lengths.*

AgriShift® JLP for Pullets

The AgriShift® JLP provides an optimized color spectrum with full dimming capability, essential for healthy bird development during early growth stages. Designed with Dim-to-Blue® technology, it enhances animal welfare and provides uniform coverage throughout any facility.

Additional Essentials and Accessories

AgriShift® G Controller

The AgriShift® G Controller is a slave dimmer that provides full potential to any ONCE® AC lighting fixture. It offers smooth dimming solutions that can easily be controlled by two separate 0-10 VDC control signals and several advanced features, adding flexibility while addressing the complex modern agriculture facilities.

AgriShift® Master Controller and Slave Dimmer (not pictured)

The integrated AgriShift® Master Controller and Slave Dimmer provide full control to both intensity and spectral output to any ONCE® lighting fixture. They offer smooth dimming solutions that can easily be controlled.

BioShift® Pass-Through UV-C Chamber - Small and Large

The BioShift® Pass-Through UV-C Chamber is an Eco-Friendly tool to use alongside established biosecurity protocols. It is designed to fix key vulnerabilities within agriculture facilities, while enhancing protocols by killing viruses and other pathogens in a recommended time of 5 minutes.

Junction Box (not pictured individually)

This Junction Box is designed to withstand routine cleanings and resist corrosion in wet, damp and dry locations.



once®



Animal-Centric Lighting Systems for Layers, Breeders and Pullets

- Optimizes production
- Improves animal welfare
- Uses light as a management tool
- Promotes calmer birds

CONTACT OUR TEAM

layers@once.group • www.once.group
15255 23rd Avenue North, Plymouth, MN 55447 • P +1 (763) 381-5621 - Ext. 2 • F +1 (763) 381-5698

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The Science

Light, a key environmental factor and essential to sustain life, is why raising animals in indoor facilities requires specialized lighting programs to achieve optimal results. ONCE® animal-centric lighting systems go beyond traditional LED technologies by offering a lighting solution designed to influence desirable physiological and biological processes in animals. With AgriShift® technology and a production dimmer program, light intensity, photoperiod and color spectrum can be adjusted for better performance, naturally resulting in increased production and enhanced animal welfare. However, artificial lighting programs must be applied with a thorough understanding of the animal's response to light and the significance of the different characteristics of light.

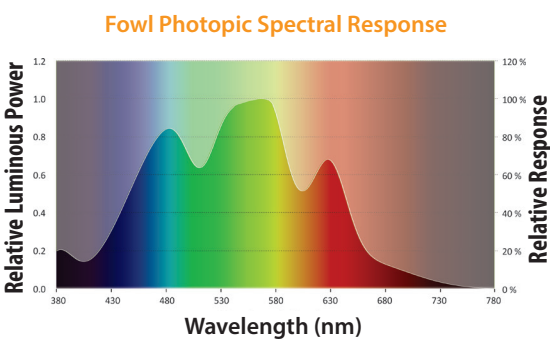
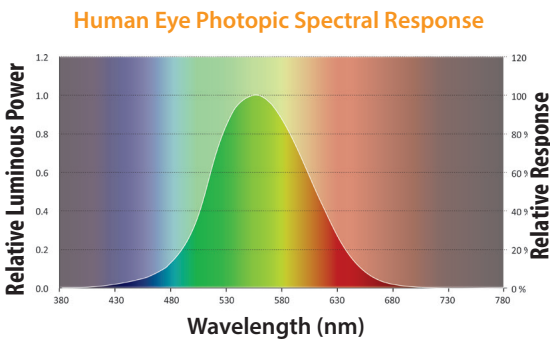
The Importance of Light Color in Poultry Vision

ONCE® layer and breeder lighting systems use a deep red saturated light with added blue and green spectrum (for poultry vision). The red spectrum has been shown to stimulate a bird's hypothalamic and pineal oscillators, which helps to maintain circadian rhythms and promotes sexual maturity. It also stimulates the release of two reproduction regulating hormones, essential for sexual maturation and daily egg production.

ONCE® pullet-specific lighting solutions use an enhanced blue/green spectrum with added red content for healthy bird development. The spectrums have been shown to stimulate a birds' highest color sensitivity, enhance growth and repair and build muscle. Green light encourages growth and sexual development of poultry during the early stages by enhancing proliferation of skeletal muscle satellite cells, while blue light has been shown to elevate plasma androgens, allowing the bird to put on more muscle mass at later stages of development. Studies have also shown that blue light can calm birds and positively affect glucose and triglyceride levels.

How Poultry Sees

The graphs below show the typical color sensitivity of a human eye compared to the sensitivity of a typical chicken eye. In the Human Eye Spectrum (left) the highest sensitivity is in green and yellow, showing that humans see these colors better than they see blue and red. In the Domestic Fowl Spectrum you can see there are 4 (four) distinct color peaks. The highest sensitivities are to green, blue and red light but you can see another one in the UV spectrum (far left peak on the curve).



The Technology



Dim-to-Red® technology for layers and breeders provides natural dawn and dusk simulation, reducing stress on your animals.



Junglite Green™ technology for pullets offers an enhanced jungle green spectrum, replicating a birds' natural habitat and promoting growth.



Dim-to-Blue® technology for pullets encourages uniform growth by offering healthy bird development during every growth stage.



AgriShift® lighting systems "shift" spectrum and intensity, meeting the individual needs of your animals¹.



A Built For Your Barn® design uses techniques and materials that withstand harsh barn environments for years to come.

Benefits of ONCE® Lighting Systems

Improves Animal Welfare

Abrupt changes caused from switching lights on and off have been shown to excite flight responses, which have a negative effect on the well-being of the bird. By minimizing these extreme changes with a natural sunrise and sunset simulation, multiple stress inputs are eliminated, lowering mortality, supporting a birds' immune response and improving animal livability.

Innovative Technologies

ONCE® AgriShift® lighting systems are agriculture specific and made to meet the individual needs of your animals. Layers and Breeders under Dim-to-Red® technology are calmer, less prone to flight and notably less aggressive, while Junglite Green™ technology for pullets replicates a light spectrum similar to their natural jungle-like habitat, meeting developmental needs at every growth stage. With innovative technology that provides uniform coverage and a consistent light pattern, as well as the ability to provide sunset and sunrise functionality, corticosterone levels and other stress markers are minimized.

Enhances Productivity

With Dim-to-Red® AgriShift® technology, it is easy to provide natural daylight simulation for improved productivity. Studies show that hens housed under ONCE® AgriShift® lighting systems increased production by 8%—resulting in 28.6 more eggs over a 70 week laying cycle due to improved spectrum and light distribution when compared to regular CFL bulbs.

Energy Savings

AgriShift® LED fixtures are more energy efficient than fluorescent and incandescent lighting. Switching from incandescent lighting to a LED with dimming can save from 75 to 85% of your lighting electricity costs. Switching from compact fluorescent lamps (CFLs) to ONCE® LED lighting products saves from 45 to 50%.

Newly Released Products and Accessories

AgriShift® TL3

The AgriShift® TL3 in-system tube light provides poultry producers with a lighting solution designed to move birds horizontally throughout the system.

AgriShift® STC/STA

The AgriShift® STC/STA is a stringer connector made to fit any ONCE® ML lighting fixture. The various drop cord lengths allow for easy and cost efficient installation. Attaching to the ceiling of barns up to 152 meters long, the AgriShift® STC/STA comes in 25 or 30½ meter lengths with 2.43 or 3 meter sections.

AgriShift® TLUS

The AgriShift® TLUS under-system tube light, runs perpendicular in-system, provides layer producers a lighting solution that is designed to brighten underneath cages, which significantly reduces floor eggs. Available in stringer format.

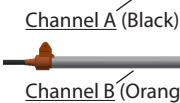
AgriShift® TLIS

The AgriShift® TLIS tube light runs perpendicular in-system, providing poultry producers with a lighting solution that has a more uniform and continuous light pattern free of dark spots and shadows. Available in stringer format.

AgriShift® TLIS



AgriShift® TL3



AgriShift® TLUS



AgriShift® STC

~ 2 1/2 or 3 m sections, totaling 23 - 30 m in length!

