## **ONCE**®

# AgriShift® TLL In-System Tube Light for Layers



- Noticeably less-stressed and calmer birds
- Fully dimmable sunrise/sunset simulation improves animal welfare
- 24" tube light provides a uniform and continuous light pattern free of dark spots
- Red spectrum promotes sexual maturity
- Easy installation decreases labor costs
- Helps maintain circadian rhythms



**AgriShift**\* lighting systems "shift" spectrum and intensity, meeting the individual needs of your animals<sup>†</sup>.



**Dim-to-Red**\* technology provides natural dawn and dusk simulation, reducing stress on your animals.



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

### **Animal-Centric Lighting Systems**

Experience healthier and more productive animals with the AgriShift\* TLL in-system tube light for layers. It features a species-specific spectrum with patented Dim-to-Red\* technology that has been scientifically proven to encourage sexual maturation and daily egg production in the birds raised under it. When paired with a ONCE\* AgriShift\* Controller and recommended lighting schedule, producers have the ability to simulate a natural sunrise and sunset, reducing overall animal stress.

The AgriShift\* TLL in-system tube light offers a more uniform and continuous light pattern free of dark spots and shadows, so birds are less likely to be spooked and are noticeably less-stressed and calmer.

Made with a Build For Your Barn\* design, the AgriShift\* TLL LED is durable, sustainable, energy efficient and decreases labor and maintenance costs.

The Science The AgriShift\* TLL has a deep red saturated light output with an added blue and green spectrum, benefiting the vision of your animal. The enhanced red spectrum is the only spectrum which stimulates a hen's hypothalamic and pineal oscillators, helping maintain circadian rhythms and promoting sexual maturity. It also stimulates the release of two reproduction regulating hormones essential for sexual maturation and daily egg production.

#### **AgriShift**\* TLL Specifications

Nominal Power	2-Tube Assembly: 7W (at full intensity)
Luminous Flux	168 lm human photopic 331 lm poultry photopic
Input Voltage	120VAC*
Beam Angle	200°
Light Output Equivalence	Up to 25W incandescent
Spectral Output	Layer-specific red enhanced white
Operating Temperature	-20°C to 40°C / -4°F to 104°F
Dimmable Range	100% to 5%
Dimmer Type	Phase Modulation or Amplitude Control***
Environmental Ratings	Suitable for damp locations**, Suitable for indoor corrosive environments per UL50E Salt Spray Test, RoHS Compliant
Safety	Conforms to ANSI/UL STD 1598, Certified to Can/CSA STD. C22.2 NO. 250.0

<sup>\*</sup>Maximum number wired in series: 30 units of 10W (max 2.5A per string)

#### **Ordering Information**

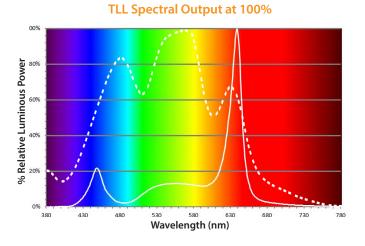
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AgriShift <sup>®</sup> TLL	SKU
1-Tube Assembly, 55" OAL	TLL-0140-1-120
Includes mounting clips	
2-Tube Assembly, 61" OAL	TLL24-0063-2-120
Includes mounting clips	
2-Tube Assembly, 95" OAL	TLL-0126-2-120
Includes mounting clips	
2-Tube Assembly, 110" OAL	TLL24-0076-2-120
Includes mounting clips	
2-Tube Assembly, 150" OAL	TLL-0128-2-120
Includes mounting clips	
2-Tube Assembly, 194" OAL	TLL-0109-2-120
Includes mounting clips	
2-Tube Assembly, 232" OAL	TLL-0143-2-120
Includes mounting clips	
AgriShift <sup>®</sup> TLL Accessories	SKU
Starter Cable, 15ft	TL-EXT-1-180
Female connector on one end	
Male End Cap	TL-CAP-M
AgriShift <sup>®</sup> Controllers	SKU
AgriShift <sup>®</sup> G Controller	ALC-G2S-UNAC-2-10
AgriShift® Master Controller 120V	30-014-00188-L123

AgriShift® Slave Dimmer 120V AgriShift<sup>®</sup> Master Controller 240V-50Hz AgriShift® Master Controller 240V-60Hz 30-014-00180-L123-60Hz

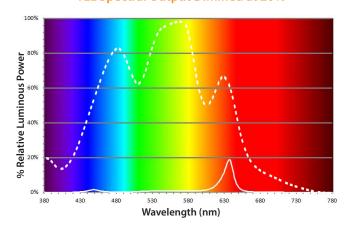
30-014-00189-L123 30-014-00180-L123

#### **Spectral Output**

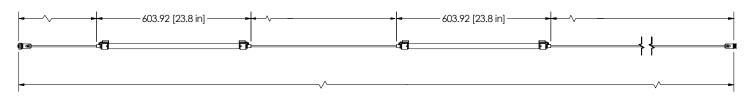
The spectral output charts below show the AgriShift\* TLL 120V at 100 % (left), compared to it dimmed to 20% (right) while demonstrating how a chicken sees the light (dotted line).



#### **TLL Spectral Output Dimmed at 20%**



#### **Mechanical Dimensions**







<sup>\*\*</sup>May not meet electrical codes in all states

<sup>\*\*\*</sup>For optimum dimming performance use AgriShift® Controllers