



- 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†.



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

*Maximum number wired in series: 30 units of 10W (max 2.5A per string)

**May not meet electrical codes in all states

***For optimum dimming performance use AgriShift® Controllers

Ordering Information

AgriShift® TLL	SKU
1-Tube Assembly, 55" OAL <i>Includes mounting clips</i>	TLL-0140-1-120
2-Tube Assembly, 61" OAL <i>Includes mounting clips</i>	TLL24-0063-2-120
2-Tube Assembly, 95" OAL <i>Includes mounting clips</i>	TLL-0126-2-120
2-Tube Assembly, 110" OAL <i>Includes mounting clips</i>	TLL24-0076-2-120
2-Tube Assembly, 150" OAL <i>Includes mounting clips</i>	TLL-0128-2-120
2-Tube Assembly, 194" OAL <i>Includes mounting clips</i>	TLL-0109-2-120
2-Tube Assembly, 232" OAL <i>Includes mounting clips</i>	TLL-0143-2-120

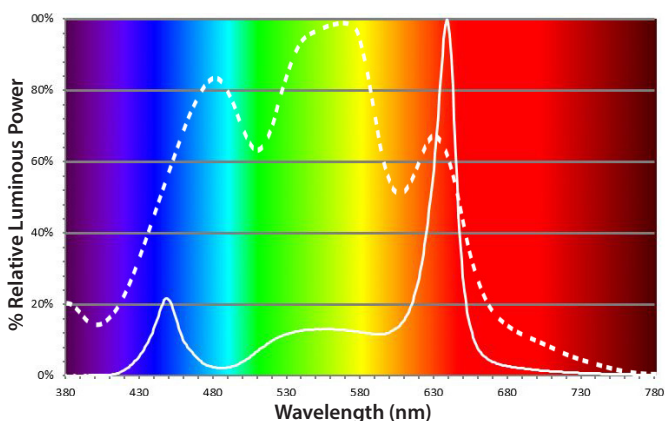
AgriShift® TLL Accessories	SKU
Starter Cable, 15ft <i>Female connector on one end</i>	TL-EXT-1-180
Male End Cap	TL-CAP-M

AgriShift® Controllers	SKU
AgriShift® G Controller	ALC-G2S-UNAC-2-10
AgriShift® Master Controller 120V	30-014-00188-L123
AgriShift® Slave Dimmer 120V	30-014-00189-L123
AgriShift® Master Controller 240V-50Hz	30-014-00180-L123
AgriShift® Master Controller 240V-60Hz	30-014-00180-L123-60Hz

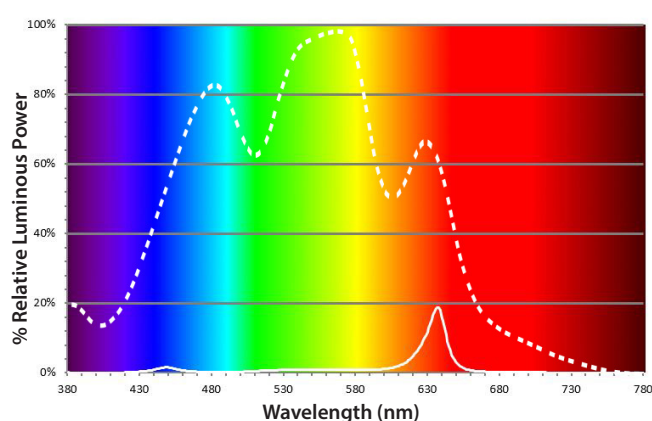
Spectral Output

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 at 100%



TLL Spectral Output Dimmed at 20%



Mechanical Dimensions

