



- Easy installation
- Improves animal welfare
- Advanced linear in-system lighting solution
- Two tubes assembly, 5' and 14"
- LED system specialized for layers
- Fully dimmable with sunrise and sunset feature
- Patent spectral output for avian vision†
- 5 year (24/7) 50,000 hour warranty
- Dim-to-Red® technology
- Built For Your Barn® design



AgriShift® lighting systems are agriculture specific and developed to meet the individual needs of your animals†. The lights “shift” spectrum and intensity.



Dim-to-Red® technology provides a natural sunrise and sunset simulation, reducing stress on your animals.



ONCE® AgriShift® fixtures have a **Built For Your Barn®** design, using techniques and materials that withstand the harsh barn environment for years to come.

Animal-Centric Lighting Systems

The AgriShift® TLL Long/Short in-system tube light provides poultry producers with an in-system lighting solution that meets the needs of today’s modern poultry houses. Made with Dim-to-Red® technology and a Build For Your Barn® design, the AgriShift® TLL Long/Short increases flock performance, decreases labor and maintenance costs and significantly reduces electricity costs.

Long/Short in-system tube lighting provides a more uniform and continuous light pattern which brings birds into they system while providing a darker nesting area. This promotes movement of birds in the nest box to lay eggs, making them noticeably less-stressed and calmer.

The Science Behind the Technology

The AgriShift® TLL Long/Short 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 promotes sexual maturity. It also stimulates the release of two reproduction regulating hormones essential for sexual maturation and daily egg production.



AgriShift® TLL Specifications

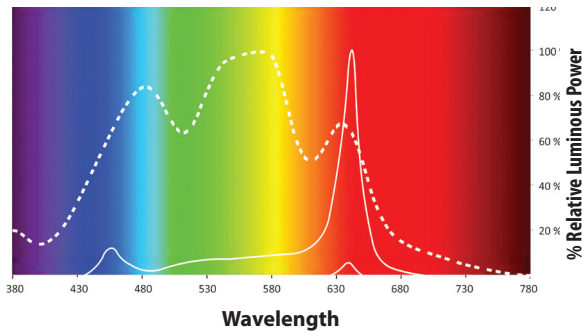
Nominal Power	2-Tube Assembly: 10W (at full intensity)
Lumens - 120V	330 lm Tall Tube 95 lm Short Tube
Light Output Equivalence	Up to 25W incandescent
Input Voltage	120 VAC*
Beam Angle	200°
Spectral Output	Layer specific red enhanced white
Operating Temperature	-20°C to 40°C / -4°F to 104°F
Dimmable Range	100% to 5%, dims to red hue
Dimmer Type	Phase Modulation or Amplitude Control**
Environmental Ratings	Suitable for damp locations***, ROHS Compliant Suitable for damp locations
Safety	ETL Listed Conforms to ANSI/UL Std. 1598 Certified to CAN/CSA C22.2 No. 250.-08
Rated Life	50,000 hours
Limited Warranty	5 Years (24/7 operation)

Ordering Information

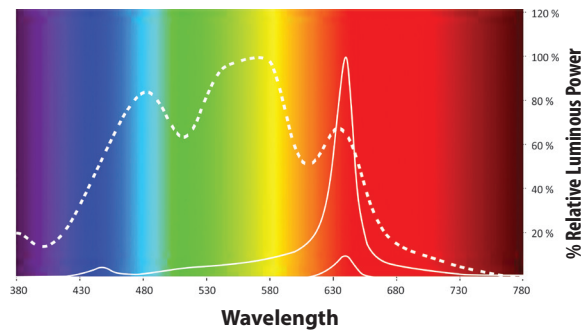
AgriShift® TLL	SKU
2-Tube Assembly, 196" OAL <i>Includes mounting clips</i>	TLL-0137-2-120
AgriShift® TLL Accessories	SKU
Starter Cable, 15ft <i>Female connector on one end</i>	TL-EXT-1-180
Male End Cap	TL-CAP-M
AgriShift® Controllers	SKU
Master Controller 120V	LCL-0.2-120V / 30-014-00134
Slave Dimmer 120V	LCL-30-014-00156-L123
Controller 240V	LCL-0.2-240V / 30-014-00144

The spectral output charts below show Relative Luminous Power percentage for the AgriShift® TLL Long tube (left) and Short tube (right) at 100 % compared to it dimmed at 20%, while demonstrating how a chicken sees the light (dotted line).

TLL Long Tube Spectral Output at 100% vs 20%



TLL Short Tube Spectral Output at 100% vs 20%



* Maximum number wired in series: 82 tubes (max 2.5A)
** For optimum dimming performance use AgriShift® Controllers
*** May not meet electrical codes in all states

AgriShift® Controllers Master and Slave Units

- Precise, consistent, incremental dimming
- Program up to 500 days divided into 20 lighting periods
- Advanced technology for LED lighting
- Daylight and night time modes
- Fully automatic control or manual options



Master Controller



Slave Dimmer

The integrated AgriShift® Master Controller and Slave Dimmer provide smooth, programmable dimming to enable the full potential of any ONCE® AgriShift® fixture. They offer several advanced features that address the complex needs of today's modern farming facilities and can both be easily programmed with the accessible display and program buttons on the front panel.