

- Enhances productivity
- Reduces energy costs
- Improves animal welfare
- Patented spectral output for avian vision†
- Advanced LED in-system lighting solution
- Fully dimmable with sunrise/sunset function
- 5 year (24/7) 50,000 hour warranty
- Replaces CFL screw-based lamps
- Provides uniform growth



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



Dim-to-Blue® technology allows light to be adjusted at the right time in a young hen's growth cycle, meeting the bird's developmental needs.



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® TLP was designed to provide an advanced in-system lighting solution for pullet producers. It meets the needs of poultry housed in today's deeper and more spacious systems. With the AgriShift® TLP tube light you will see significantly reduced electricity costs, decrease labor and maintenance costs, and increase flock performance.

The AgriShift® TLP system is more energy efficient than existing fluorescent bulbs and provides a faster return on investment as well as long-term savings.

### The Science Behind the Technology

The AgriShift® TLP has an enhanced blue and green spectrum with added red content for early bird development. Green and red light spectrum increases growth during the early stage of development. Blue light has been shown to be helpful in the growth of poultry at a later age by elevating plasma androgens. Other studies show that blue light can calm birds, reduce blood pressure and positively effect blood glucose and triglyceride levels.



## AgriShift® TLP Specifications

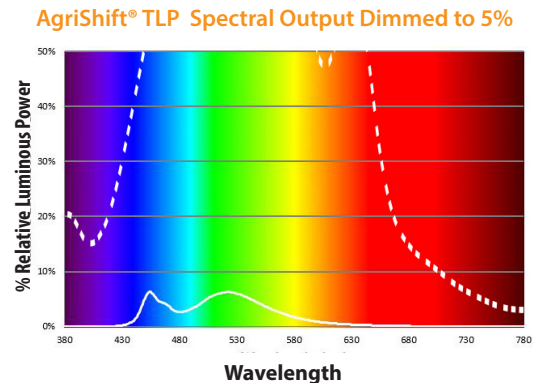
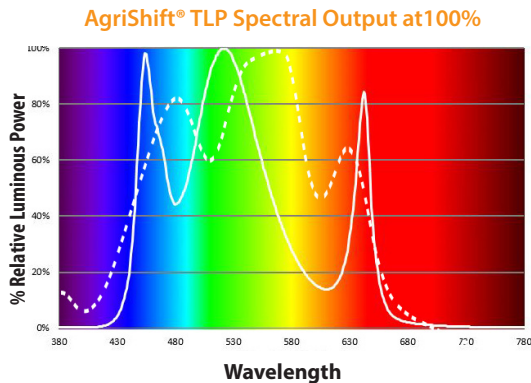
|                                  |   |
|----------------------------------|---|
| Nominal Power                    | 7 W (at full intensity)   |
| Lumens (Luminous Flux - Nominal) | 225 lm human photopic<br>900 lm adjusted to poultry spectral sensitivity                    |
| Light Output Equivalence         | Up to 25 W incandescent   |
| Input Voltage                    | 120 VAC / 60 Hz*  |
| Beam Angle                       | 180°  |
| Spectral Output                  | Layer specific blue enhanced white  |
| Operating Temperature            | -20°C to 40°C / -4°F to 104°F   |
| Dimmable Range                   | 100% to 5%, dims to blue hue  |
| Dimmer Type                      | Phase Modulation or Amplitude Control**   |
| Environmental Ratings            | Suitable for Damp Locations***<br>ROHS Compliant  |
| Safety                           | ETL Listed<br>Conforms to ANSL/UL Std. 1598<br>Certifies to CAN/CSA Std. C22.2 No. 250.0-08 |
| Rated Life                       | 50,000 Hours  |
| Limited Warranty                 | 5 Years (24/7 operation)  |

\*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

The spectral output graphs below show the AgriShift® TLP 120V at 100% (left), compared to it at 5% (right), while demonstrating how a chicken sees the light (dotted line).



## Ordering Information

| AgriShift® TLP  | SKU                         |
|---|-----------------------------|
| TLP 2 Tube Assembly<br><i>195", Include mounting clips</i>    | TLP-0111-2-120              |
| TLP 2 Tube Assembly<br><i>95", Include mounting clips</i>     | TLP-0127-2-120              |
| Extension Cable, 15 ft.<br><i>Female connector on one end</i> | TL-EXT-1-180                |
| TLP Male End Cap  | TL-CAP-M - TL               |
| 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 |

## 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.