



Junction Box Format



Hard Wire Format

- Improves animal welfare
- Fully dimmable and programmable
- Withstands harsh aquaculture environments
- Natural sunrise / sunset simulation
- Energy efficient 120V LED



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



ONCE® AquaShift® lighting systems are developed to meet the individual needs of your fish, while withstanding the harsh environments of modern aquaculture applications.

## Animal-Centric Lighting Systems

ONCE® lighting systems provide a customized light intensity, color spectrum and photoperiod designed specifically for your animal. The AquaShift® MLA-RE is an advanced fixture made to enhance production and reduce stress on fish raised in commercial aquaculture environments. It provides a white light with an enhanced red wavelength, is fully programmable and has the ability to simulate an aquaculture-specific sunrise and sunset simulation.

### Aquaculture-Specific

AquaShift® lighting systems withstand the high humidity and harsh conditions of modern aquaculture applications. The AquaShift® MLA-RE is designed to be wet location compatible, National Electrical Code compliant for Agricultural Facilities (Article 547), and ETL listed.



## AquaShift® MLA-RE Specifications

|                          |  |
|--------------------------|--|
| Nominal Power            | 12W (at full intensity)  |
| Luminous Flux            | 600 lm human photopic  |
| Input Voltage            | 120 VAC / 50/60Hz, 230 VAC / 150/60 Hz   |
| Beam Angle               | 180°   |
| Light Output Equivalence | Up to 100W incandescent  |
| Spectral Output          | Species-specific red with blue 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 wet locations, ROHS Compliant<br>Suitable for Indoor Corrosive Environments,<br>Tested to CAN/CSA C22.2 NO. 94.2-07, CLAUSE 8.7 |
| Safety                   | ETL Listed, Conforms to UL Std. 1598<br>Certified to CAN/CSA C22.2 No. 250-08  |
| Rated Life               | 50,000 hours   |

\*For optimum dimming performance use AgriShift® Controllers

\*All units are packaged individually with integral gasket (attached) and 2 screws.

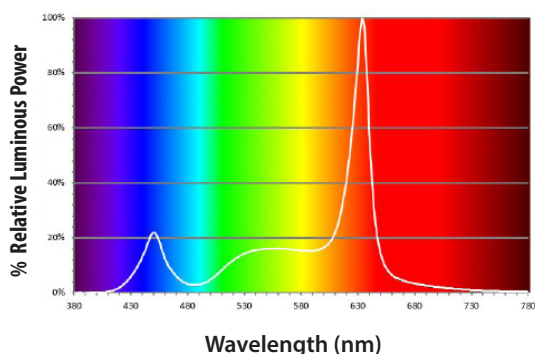
## Ordering Information

| AquaShift® MLA-RE 120V   | SKU                   |
|--|-----------------------|
| Hard-Wired (HW)  | MLA-RE-HW-180-012-120 |
| <i>Includes 78" cord, Junction Box, Junction Box Cover, Cordgrip and Nut</i> |                       |
| Junction Box (JB)†   | MLA-RE-JB-180-012-120 |
| <i>Includes JB adaptor/connector kit and Junction Box</i>                    |                       |

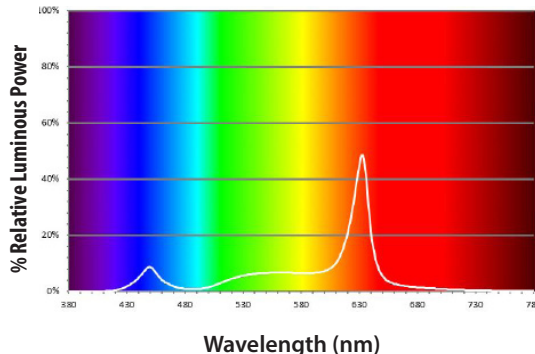
| AquaShift® MLA-RE 230V   | SKU                   |
|--|-----------------------|
| Hard-Wired (HW)  | MLA-RE-HW-180-012-230 |
| <i>Includes 78" cord, Junction Box, Junction Box Cover, Cordgrip and Nut</i> |                       |
| Junction Box (JB)†   | MLA-RE-JB-180-012-230 |
| <i>Includes JB adaptor/connector kit and Junction Box</i>                    |                       |

| AquaShift® MLA-RE Accessories                                   | 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 |
| Junction Box  | PRB575GYKO             |
| <i>Five total ¾" KO hubs, four sealed</i>                       |                        |
| Junction Box Cover  | 26-0049                |
| <i>Round Weatherproof Cover with Gasket and Screws included</i> |                        |
| Water-tight Cordgrip  | 02-0231                |
| <i>Liquid Tight Cordgrips, Straight-Thru, ½" NPT Hubs</i>       |                        |
| Water-tight Locknut   | 02-0232                |
| <i>Nylon Locknuts ½" NPT Thread</i>                             |                        |

AquaShift® MLA-RE Spectral Output at 100%



AquaShift® MLA-RE Spectral Output at 50%



The spectral output charts to the right show the AquaShift® MLA-RE at 100% (left) compared to it dimmed to 50% (right).

## Complete Your AquaShift® Lighting System: AgriShift® G Controller

- Improves animal welfare
- Offers several advanced features, adding flexibility
- Eliminates lighting anomalies to increase production
- Universal input power

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, giving added flexibility while addressing the complex needs of today's modern agriculture facilities.



[www.once.lighting](http://www.once.lighting)

Once Inc. • 15255 23rd Ave N, Plymouth, MN 55447 • [info@onceteam.com](mailto:info@onceteam.com) • T +1 (763) 381-5621

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