

# Biolux®

GERMICIDAL ULTRAVIOLET FIXTURES

**8 Watt  
Strip Fixture**



**30 Watt  
Strip Fixture**



**4 Watt  
Strip Fixture**



## ABOUT US



**Since 1963**, we've been engineering and manufacturing germicidal ultraviolet equipment to prevent disease caused by contaminants in water, in air, and on surfaces. Our engineers bring each concept to a finished model, implementing stringent quality control procedures. Each product is manufactured with stainless steel and the highest quality materials to ensure the safety of personnel and room occupants. We stock an extensive inventory in our 37,500 square foot facility and ship throughout the world. Our knowledgeable team of UV-C specialists will provide effective and cost-conscious solutions for your home, business, industry, or institution.

## GERMICIDAL ULTRAVIOLET

Germicidal Ultraviolet is a unique and rapid method of disinfection. It utilizes germicidal ultraviolet lamps producing ultraviolet wavelengths at 254 nanometers (nm)—a level that is lethal to bacteria, viruses, and other microorganisms.

An ever growing range of industries and consumer applications have found ultraviolet to be the ideal solution for their air and surface treatment needs.



# PRINCIPLE OF OPERATION

## ADVANTAGES

### **Effective**

Virtually all microorganisms are susceptible to **Biolux®** ultraviolet disinfection.

### **Economical**

Fixtures require very little power to operate.

### **Fast**

Disinfects both air and exposed surfaces in seconds.

### **Easy**

Simple installation and maintenance.

### **Automatic**

Continuous disinfection without special attention.

### **Durable**

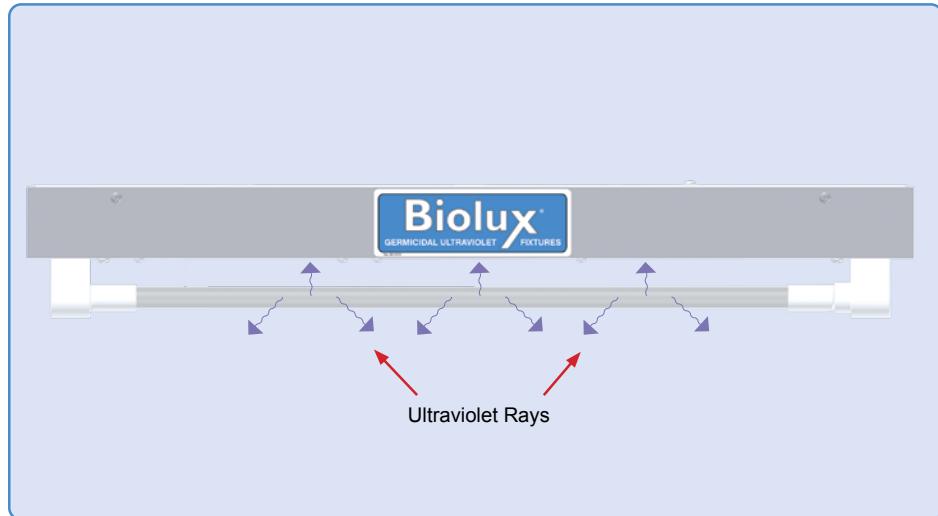
Constructed of chrome-plated steel.

### **Versatile**

Strip fixtures available in various sizes.

### **Low Maintenance**

Only routine cleaning and annual lamp replacement are required.



**Figure 1** - Circulated room air and any exposed surfaces are irradiated with direct germicidal ultraviolet rays.

The **Biolux®** line of germicidal ultraviolet fixtures has been carefully designed to provide direct ultraviolet exposure for air and/or surface disinfection.

The various styles of **Biolux®** fixtures use UV-C lamps producing germicidal ultraviolet energy at 254 nanometers, neutralizing a wide range of microorganisms.

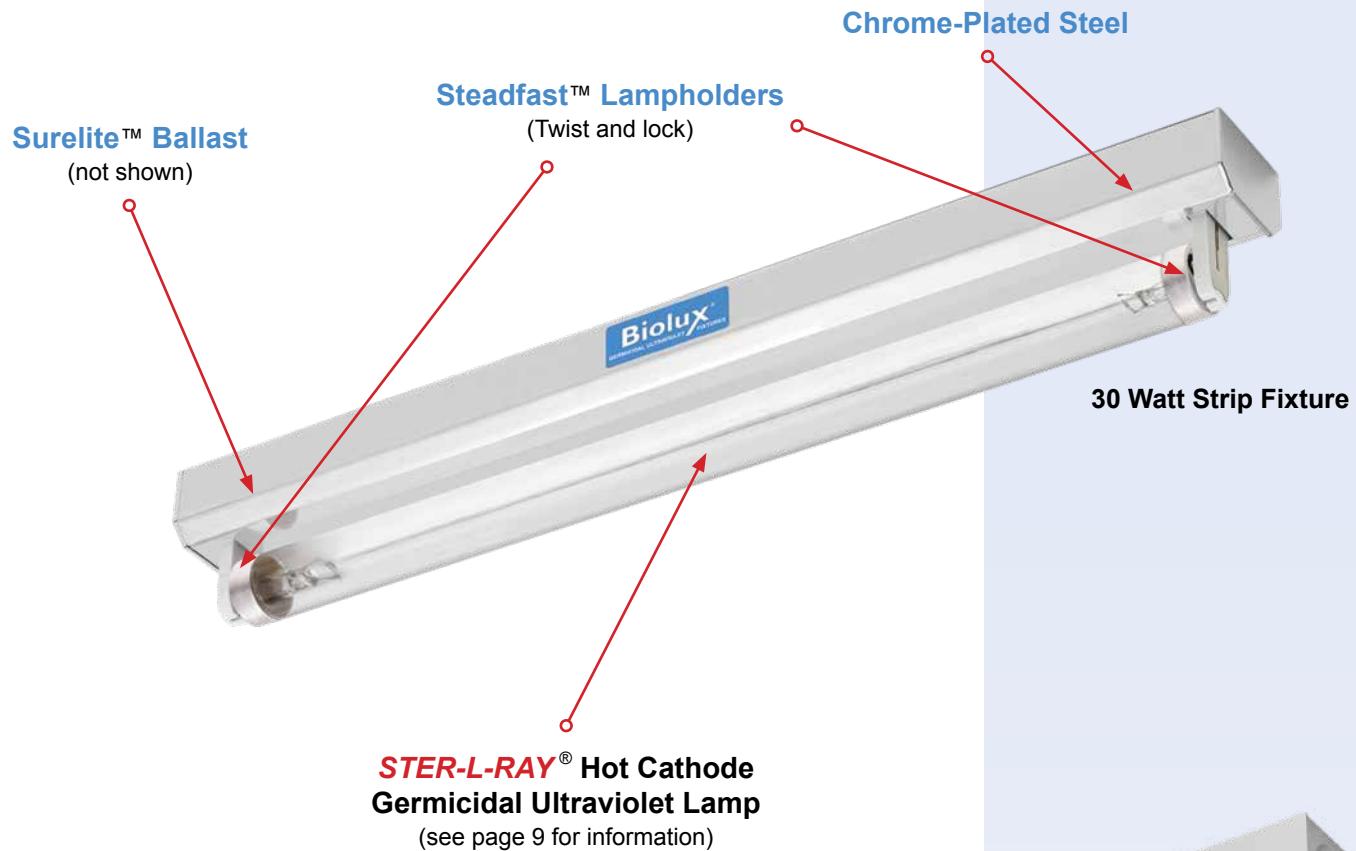
The 4 watt through 30 watt strip style fixtures are ideal for a more permanent installation where disinfection will be necessary and constant. Applications include but are not limited to conveyor belts, disinfection cabinets, and laboratory hoods.

**Biolux®** Germicidal Ultraviolet Fixtures should be utilized when space is unoccupied or when personnel and occupants take appropriate protective measures.

## SPECIAL FEATURES

### Biolux® Germicidal Ultraviolet Strip Fixture

**Biolux®** Germicidal Ultraviolet Fixtures utilize direct germicidal ultraviolet exposure for air and surface disinfection. Our UV Application Specialists would be happy to perform the necessary calculations to ensure the fixture selected is appropriate for your particular application.



#### Applications:

Laboratories, Conveyor Belts, Cabinets, Hoods



## SPECIFICATIONS



Proper placement of the **Biolux®** Germicidal Ultraviolet Fixture is essential. To ensure safe and effective operations, the location should have an appropriate power source, not be mounted under any source of moisture or condensation, and be easily accessible—allowing enough clearance for routine cleaning or maintenance.

| Model                 | Lamp    | Total Ultraviolet Output ① | Dimensions |        |        | Rated Lamp Life (Hours) |
|-----------------------|---------|----------------------------|------------|--------|--------|-------------------------|
|                       |         |                            | Length     | Width  | Height |                         |
| 4 Watt Strip Fixture  | 05-1110 | 0.5 Watts                  | 9"         | 1-3/8" | 2-1/8" | 9,000                   |
| 6 Watt Strip Fixture  | 05-1109 | 1.0 Watts                  | 12"        | 1-3/8" | 2-1/8" | 9,000                   |
| 8 Watt Strip Fixture  | 05-1108 | 1.6 Watts                  | 15"        | 1-3/8" | 2-1/8" | 9,000                   |
| 15 Watt Strip Fixture | 05-1105 | 3.6 Watts                  | 19-1/2"    | 2-5/8" | 3-1/2" | 9,000                   |
| 25 Watt Strip Fixture | 05-1107 | 5.0 Watts                  | 19-1/2"    | 2-5/8" | 3-1/2" | 9,000                   |
| 30 Watt Strip Fixture | 05-1106 | 8.3 Watts                  | 37-1/2"    | 2-5/8" | 3-1/2" | 9,000                   |

① Ultraviolet Output at 254 nanometers at 100 hours and 80 degrees F (approximate).

220v 50Hz fixtures are available. Contact factory with voltage requirements.

**Atlantic Ultraviolet Corporation® equipment is manufactured in USA from U.S. and Imported Parts.**

**CAUTION:** Exposure to direct or reflected germicidal ultraviolet rays will cause painful eye irritation and reddening of the skin. Personnel subject to such exposure must wear suitable face shield, gloves and protective clothing.

Hg - LAMP CONTAINS MERCURY, manage in accord with disposal laws, see LampRecycle.org.

## GENUINE STER-L-RAY® GERMICIDAL ULTRAVIOLET LAMPS

**STER-L-RAY® Germicidal UV Lamps** are shortwave, low pressure tubes that produce ultraviolet wavelengths lethal to microorganisms. Approximately 95% of the ultraviolet energy emitted from **STER-L-RAY®** Germicidal Ultraviolet Lamps is at 254 nanometers, the region of germicidal effectiveness most destructive to bacteria, mold and virus.

**STER-L-RAY® Hot Cathode Germicidal Ultraviolet Lamps** utilize tungsten filaments. Lamp life is governed by the life of the filaments and is affected by the frequency of starting. **STER-L-RAY®** lamps are well suited for a variety of air and surface applications.

**STER-L-RAY®, ArmorLite™, and Biolux®, and the STER-L-RAY®, ArmorLite™, and Biolux® logo** are trademarks of Atlantic Ultraviolet Corporation®.

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## OPTIONAL ACCESSORIES



### ArmorLite™ Germicidal Ultraviolet Lamp Safety Shield

Protective coating applied to **STER-L-RAY®** Germicidal Ultraviolet Lamps ensures protection for employees, products, and work environments by eliminating the dangers associated with fragments of broken lamps. (Lamp on right has **ArmorLite™** coating. Available for **STER-L-RAY®** lamps used in **ALL Biolux®** fixtures at the time of purchase. The coating is installed at the factory.)



### Zenith™ Germicidal Ultraviolet Detector

The **Zenith™** Germicidal Ultraviolet Detector is a sensitive hand-held, self-contained, battery operated meter that can be used for:

- Monitoring Germicidal Ultraviolet Lamp Intensity & Aging
- Measuring Germicidal Ultraviolet Fixture Leakage



### Promate™ Face Shield

Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays.



### Promate™ Safety Glasses

Safety eyewear **MUST** be used as general-purpose safety protection and for additional shielding from germicidal UV rays.



### Promate™ Danger Signs

To be affixed to entry door(s) to warn that an ultraviolet sanitizer is in use and that the treatment area **MUST** not be entered. **Biolux®** is for use only in **unoccupied** areas. 2 signs are included with each model; additional signs may be purchased.

## DOSIMETERS

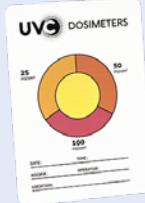
### Assure™ UV-C Dosimeter

A portable, full-featured instrument that provides highly-accurate UV-C measurements in  $\text{mJ/cm}^2$ . Sits upright, on back or side, and can be placed in supplied wall holder. Uses 1 AAA battery.



### UV-C Dosimeter Card

Contains a patented colorimetric indicator that changes color at 25, 50, and  $100 \text{ mJ/cm}^2$  to visibly confirm that your **Biolux®** is achieving the desired UV-C exposure. Each card is designed for 1 treatment cycle and **CANNOT** be reused.

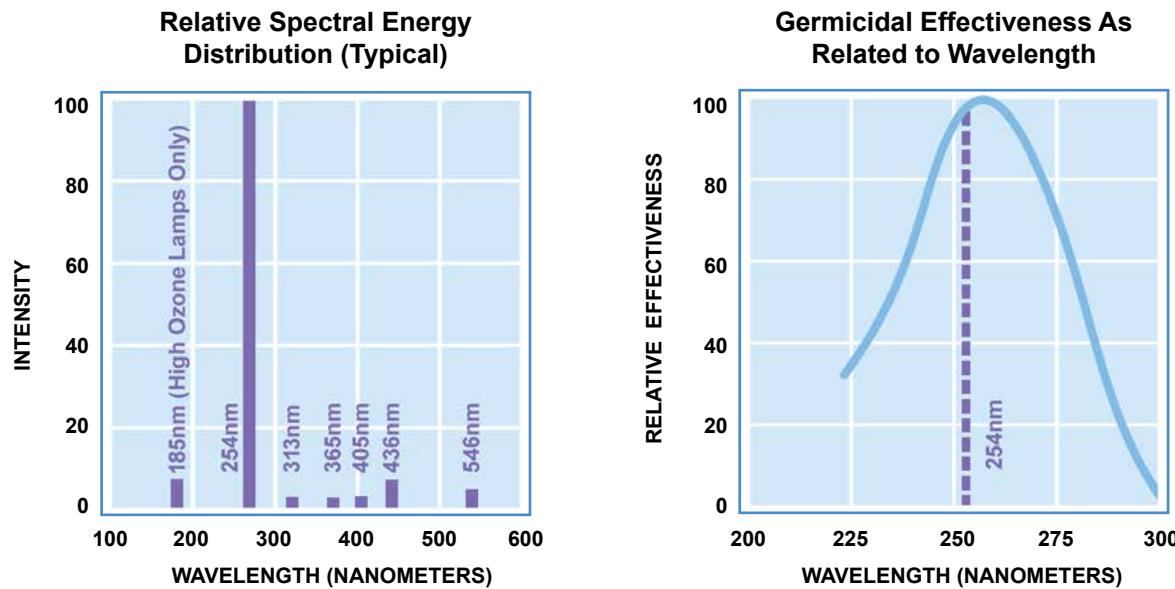


### Personal UV-C Exposure Indicators

These indicators change color to reveal the word "STOP" if personnel are exposed to an accumulated dose of  $6 \text{ mJ/cm}^2$  of UV-C irradiation. Adhesive backing sticks to clothing. Available in packs of 10. Designed for single, daily use and **CANNOT** be reused.



# STER-L-RAY® GERMICIDAL OPERATING CHARACTERISTICS



## GERMICIDAL ULTRAVIOLET DOSAGE

Germicidal ultraviolet lamps provide effective protection against microorganisms. A small cross-section is shown below.

| ORGANISM                                           | ALTERNATE NAME         | TYPE      | DISEASE                                                   | DOSE* |
|----------------------------------------------------|------------------------|-----------|-----------------------------------------------------------|-------|
| <i>Corynebacterium diphtheriae</i>                 | <i>C. diphtheriae</i>  | Bacterium | Diphtheria                                                | 6.50  |
| <i>Legionella pneumophila</i>                      | <i>L. pneumophila</i>  | Bacterium | Legionnaire's Disease                                     | 12.30 |
| <i>Mycobacterium tuberculosis</i>                  | <i>M. tuberculosis</i> | Bacterium | Tuberculosis (TB)                                         | 10.0  |
| <i>Pseudomonas aeruginosa</i>                      | <i>P. aeruginosa</i>   | Bacterium |                                                           | 3.90  |
| <i>Serratia marcescens</i>                         | <i>S. marcescens</i>   | Bacterium |                                                           | 6.160 |
| <i>Staphylococcus aureus</i>                       | <i>S. aureus</i>       | Bacterium | Pneumonia, Endocarditis, Sepsis                           | 6.60  |
| <i>Methicillin-resistant Staphylococcus aureus</i> | MRSA                   | Bacterium | Pneumonia, Endocarditis, Sepsis                           | 6.50  |
| <i>Staphylococcus epidermidis</i>                  | <i>S. epidermidis</i>  | Bacterium | Endocarditis, Sepsis                                      | 5.80  |
| <i>Streptococcus pyogenes</i>                      | Strep                  | Bacterium | Strep Throat                                              | .80   |
| <i>Clostridium difficile</i>                       | <i>C. diff</i>         | Spore     | Colitis                                                   | 16.0  |
| <i>Adenovirus</i>                                  |                        | Virus     | Common Cold                                               | 4.50  |
| <i>Coxsackie A2</i>                                |                        | Virus     | Hand, Foot, and Mouth Disease, Conjunctivitis, Meningitis | 6.30  |
| <i>Influenza</i>                                   |                        | Virus     | Flu                                                       | 1.20  |
| <i>SARS-CoV-2</i>                                  |                        | Virus     | COVID-19                                                  | 5.0   |
| <i>Morbillivirus hominis</i>                       | Measles virus, MeV     | Virus     | Measles, rubeola                                          | 4.40  |

\* Nominal Ultraviolet dosage (mJ/cm<sup>2</sup>) necessary to inactivate better than 99% of specific microorganism. Visit [Ultraviolet.com/microorganisms-inactivated](http://Ultraviolet.com/microorganisms-inactivated) for complete listing.



SINCE 1963  
**ATLANTIC**  
ULTRAVIOLET  
CORPORATION®



375 Marcus Boulevard  
Hauppauge, NY 11788

**CALL:**  
(631) 273-0500

**E-MAIL:**  
[Sales@AtlanticUV.com](mailto:Sales@AtlanticUV.com)

**LEARN:**  
[Ultraviolet.com](http://Ultraviolet.com)

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**GERMICIDAL ULTRAVIOLET EQUIPMENT & LAMPS • MANUFACTURERS / ENGINEERS / SALES / SERVICE**

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