

Biolux[®]

GERMICIDAL ULTRAVIOLET FIXTURES



**8 Watt
Strip Fixture**



**30 Watt
Strip Fixture**

**4 Watt
Strip Fixture**



**ATLANTIC ULTRAVIOLET
CORPORATION[®] SINCE 1963**

ABOUT US

Since 1963, Atlantic Ultraviolet Corporation® has pioneered the discovery and development of beneficial uses of ultraviolet energy. Over the years these efforts have led to the



development of valuable, cost effective and environmentally sound techniques and products now known and respected throughout the world.

The UV Application Specialists at Atlantic Ultraviolet Corporation® assist customers in the selection of germicidal lamps and equipment. Their specialized knowledge is a valuable resource in formulating effective and cost-conscious ultraviolet solutions. Extensive inventories and a dedicated staff enable Atlantic Ultraviolet Corporation® to fulfill its commitment to provide fast deliveries and responsive customer service.

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, virus 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.

Atlantic Ultraviolet Corporation® equipment and systems are manufactured in the USA.

**30 Watt
Strip Fixture**



**8 Watt
Strip Fixture**



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

Routine cleaning and annual lamp replacement is required.

PRINCIPLE OF OPERATION

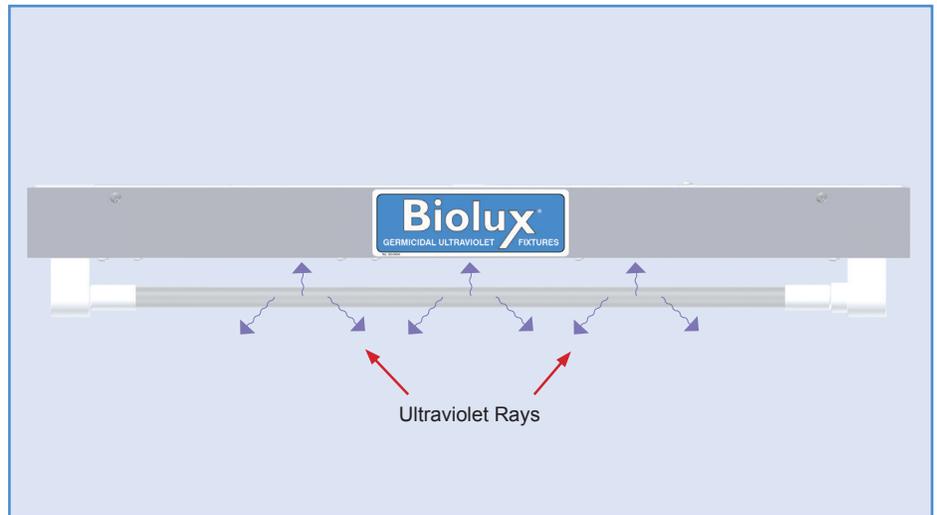


Figure 1 - Circulated room air and any exposed surfaces are irradiated with direct germicidal ultraviolet rays.

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

Biolux[®] Germicidal Ultraviolet Fixtures use shortwave (254 nm) ultraviolet lamps (also referred to as UV-C or germicidal ultraviolet) in various style equipment to deactivate a wide range of microorganisms.

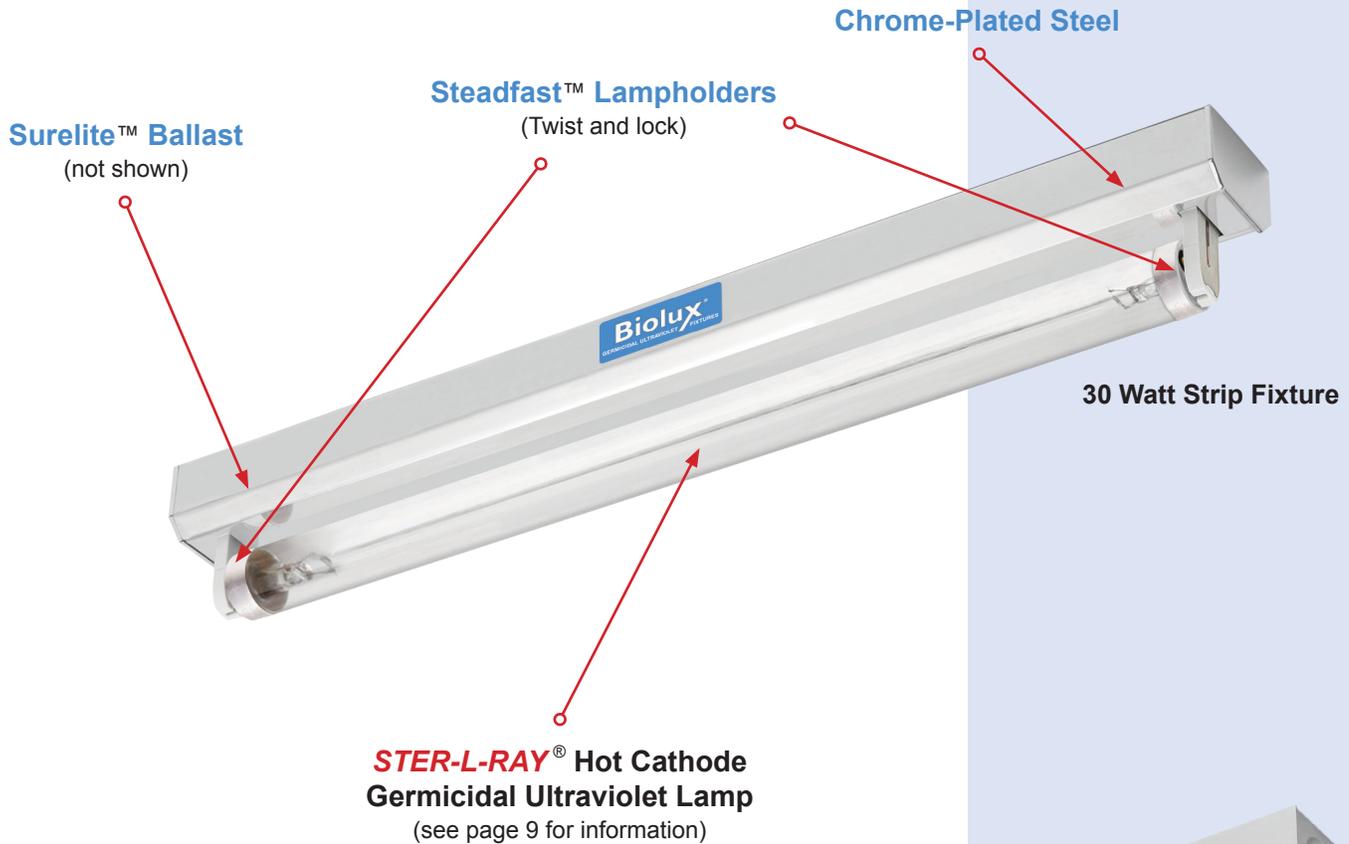
The 4 watt through 30 watt strip style fixtures are ideal for a more permanent installation where disinfection will be necessary and constant. Applications include but are not limited to conveyor belts, disinfection cabinets and laboratory hoods.

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

SPECIAL FEATURES—STRIP FIXTURES

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 and allow 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).

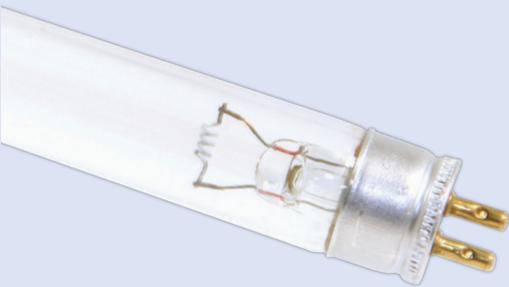
220v 50Hz fixtures are available. Contact factory with voltage requirements.

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 ultraviolet 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

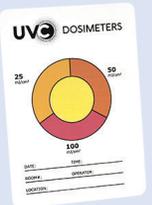
Assure™ UV-C Dosimeter

A portable, full-featured instrument that provides highly-accurate UV-C measurements in mJ/cm². 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 mJ/cm² 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.



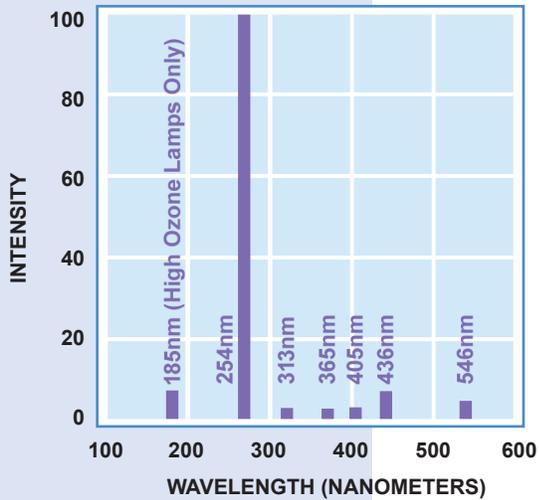
Personal UV-C Exposure Indicators

These indicators change color to reveal the word "STOP" if personnel are exposed to an accumulated dose of 6 mJ/cm² of UV-C irradiation. Adhesive backing sticks to clothing. Available in packs of 10. Designed for single, daily use and **CANNOT** be reused.

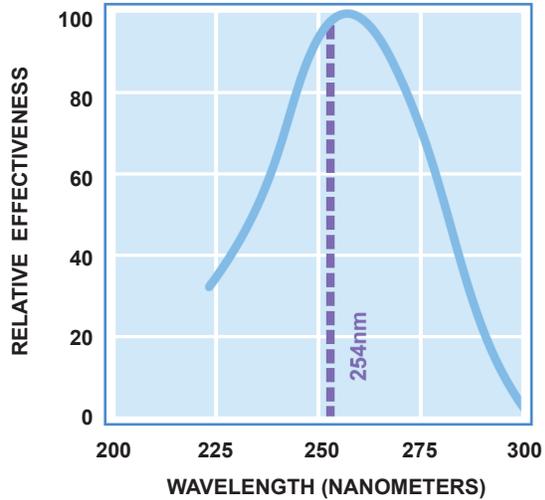


STER-L-RAY® GERMICIDAL OPERATING CHARACTERISTICS

Relative Spectral Energy Distribution (Typical)



Germicidal Effectiveness As Related to Wavelength



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		6.60
<i>Staphylococcus epidermidis</i>	<i>S. epidermidis</i>	Bacterium		5.80
<i>Methicillin-resistant Staphylococcus aureus</i>	MRSA	Bacterium		6.50
<i>Clostridium difficile</i>	<i>C. diff</i>	Spore	Colitis	16.0
<i>Adenovirus Type 3</i>		Virus		4.50
<i>Coxsackie A2</i>		Virus	Hand, Foot, and Mouth Disease, Conjunctivitis, Meningitis	6.30
<i>Influenza</i>		Virus	Flu	6.60
SARS-CoV-2		Virus	COVID-19	5.0

* Nominal Ultraviolet dosage (mJ/cm²) necessary to inactivate better than 99% of specific microorganism. Consult factory for more complete listing.

The Standard of Excellence In Ultraviolet



Manufacturers / Engineers / Sales / Service – Gericidal Ultraviolet - Equipment & Lamps



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