

# READ AND FOLLOW ALL SAFETY INSTRUCTIONS

## IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

- This equipment is designed for use with germicidal UV radiation sources and must be installed in compliance with competent technical directions to prevent risk of personal injury from UV radiation.
- UV radiation can pose a risk of personal injury. Overexposure can result in damage to eyes and bare skin. To reduce the risk of overexposure, this equipment must be installed in accordance with the manufacturer's site planning recommendations. This may include instructions on the relative location of each germicidal system component, the minimum distances between UV-generating devices and other objects or surfaces, and protection from line-of-sight exposure to UV radiation in occupied spaces located above the equipment mounting area (e.g. upper floor balconies, open staircases, etc.).
- UV and optical radiation can be reflected by surrounding surfaces such as ceilings and walls. Since the reflective properties of surfaces can vary widely, it should be considered as part of site planning. Follow the manufacturer's recommendations for selecting appropriate ceiling and wall finishes.
- IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PERSONS WILL NOT BE EXPOSED TO EXCESSIVE UV OR OPTICAL RADIATION DURING EQUIPMENT OPERATION. THIS WILL REQUIRE THE INSTALLER TO CONDUCT AN ASSESSMENT OF IRRADIANCE OR ILLUMINANCE LEVELS IN THE SURROUNDING OCCUPIED SPACES PRIOR TO OCCUPANCY
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- Maintenance and servicing of this UV generating equipment shall be performed by authorized personnel. Service personnel must wear appropriate Personal Protective Equipment (PPE) if the equipment will be in operation during the maintenance or servicing work. Contact the equipment manufacturer for PPE recommendations and guidance.
- When replacing lamps, replace them only with the lamps for which the equipment is marked and intended.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition
- Do not use this equipment for anything other than the intended use.

1. CAUTION - RISK OF PERSONAL INJURY
2. THIS EQUIPMENT IS DESIGNED FOR USE WITH GERMICIDAL LAMPS OR UV SOURCES AND MUST BE INSTALLED IN COMPLIANCE WITH COMPETENT TECHNICAL DIRECTIONS TO PREVENT THE USER'S EYE AND BARE SKIN FROM EXPOSURE TO HARMFUL UV OF OPTICAL RADIATION
3. DO NOT INSTALL THIS EQUIPMENT IN A DWELLING
4. MOUNT THIS EQUIPMENT AT LEAST **7 FEET, 6 INCHES** ABOVE THE FLOOR - MEASURED FROM THE FLOOR TO THE BOTTOM OF THE FIXTURE
5. WARNING - RISK OF PERSONAL INJURY
6. EYE DAMAGE MAY RESULT FROM DIRECTLY VIEWING THE LIGHT PRODUCED BY THE LAMP IN THIS EQUIPMENT. ALWAYS TURN OFF THE LAMP BEFORE SERVICING
7. HIGHEST IRRADIANCE AT 500 MM: \_\_\_\_\_
8. USE ONLY THE LAMPS PROVIDED WITH THIS PRODUCT



# GUA S SAFETY AND HANDLING INSTRUCTIONS



Imminently hazardous situation that can result in death or injury



Electrical hazard



Ultraviolet hazard



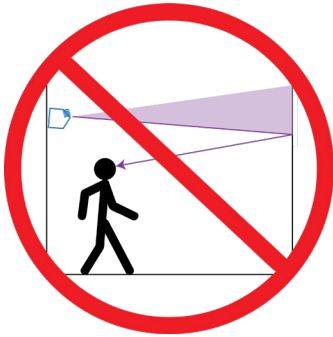
Potentially hazardous situation, minor injuries possible

- These products can be hazardous if handled or installed incorrectly. **CAUTION** Ultraviolet rays can cause skin burns and eye irritation. Read and heed all safety warnings on instructions, spec sheets, cartons and fixtures. Do not install these products in any way other than what is specified on the installation sheet. Always wear eye protection and gloves when handling these products and lamps. Installation and service should only be done by qualified personnel. 
- These products are for indoor use only. **CAUTION**
- GUA S sconces are to be mounted horizontally on walls only at a **minimum height of 7 feet, 6 inches**. This measurement is from the floor to the bottom of the fixture. Do not install this fixture in any way other than what is recommended. **CAUTION**
- The GUA S must be mounted at a perfectly level orientation. Any tilt in these fixtures could result in UVC exposure to people. The GUA S must be completely flush mounted to the wall. In the event the wall is not vertically level, utilize shims to ensure the fixture is plumb. This is critical to ensure the UVC irradiation is emitted across a horizontal plane into the upper zone, and will not cause exposure to anyone in the lower zone. **CAUTION**
- It is strongly recommended that UVC dosimeters are used after the fixture is hung to verify that UVC is not irradiating into the lower zone. These measurements should be taken at head height to ensure potential exposure to people will not exceed the maximum safe daily dosage of 6mj/cm<sup>2</sup>. Many factors can play a role in altering the irradiation in the room. Therefore, it is the user's responsibility to ensure this product is installed in a safe manner with each installation. **CAUTION**
- Beware of any potentially exposed areas above the luminaire – such as stair landings, balconies, mezzanines and the like – where people can be exposed to the UVC light. Do not install these fixtures in these areas. **CAUTION**
- Reflectance of the ceiling must be considered before installing these fixtures. Highly reflective surfaces could reflect ultraviolet irradiation into the lower zone and be hazardous. Consult with the factory any concerns before purchasing this product. **CAUTION**
- Beware that other objects in the room (other light fixtures, exit/emergency lighting, signage, ceiling tiles, etc.) may degrade over time if exposed to UVC light if these items are not constructed of UV-resistant material. Please shield all plants in the UVC irradiation zone from exposure as UVC can be damaging to plants. Direct exposure to rubber, plastic and other non-metals can cause degradation or color fade over time, so take precaution and shield any materials that could be affected. **CAUTION**
- Do not mount under sources of moisture – air conditioners, humidifiers, etc. **DANGER**
- Please ensure that there is no power to the luminaire if you are in the process of installing, replacing lamps, or performing maintenance on the unit. Do not energize unit until it is fully installed, and you are off the ladder and standing on the floor below the unit. **DANGER**
- Do not power on the unit if it is not properly grounded. Power requirements must match what's listed on the product date label. **DANGER**
- Do not alter these products in any way, or remove any safety or warning labels. If labels become illegible over time, contact the factory for new ones. **DANGER**
- UVC lamps used in these products contain mercury. Please use caution and properly dispose of any burnt-out lamps in accordance with local regulations. In the unlikely event of lamp breakage, make sure to ventilate the room, and remove the parts. Make sure not to use a vacuum cleaner to collect shards. Be careful while handling glass parts. **DANGER**

**For any questions or concerns, contact [uvfocus@lumenfocus.com](mailto:uvfocus@lumenfocus.com).**

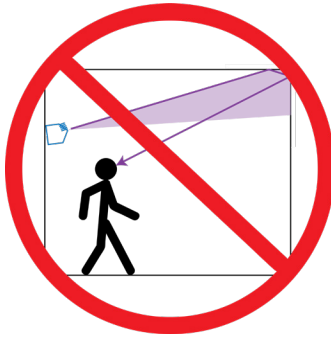
## SAVE THESE INSTRUCTIONS

# GUA S SAFETY AND HANDLING INSTRUCTIONS



**INCORRECT**

Do not mount these fixtures against the wall at any angle. A downward angle could cause dangerous UVC reflectance from the opposing wall.



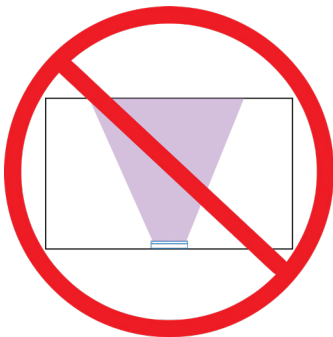
**INCORRECT**

Do not mount these fixtures against the wall at any angle. An upward angle could cause dangerous UVC reflectance from the ceiling and opposing wall.



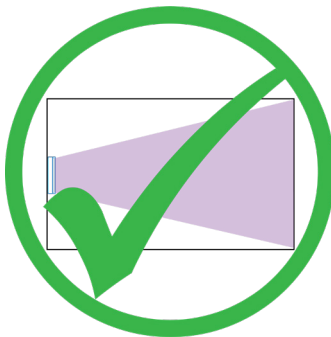
**CORRECT**

Mount fixtures at a perfectly level orientation to ensure UVC remains in the upper air zone



**INCORRECT**

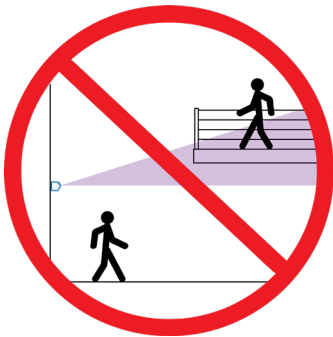
Do not install these fixtures to irradiate the short path of the room. Desired dosage will not be achieved, and this could result in more intense UVC reflection off the opposing wall into the room



**CORRECT**

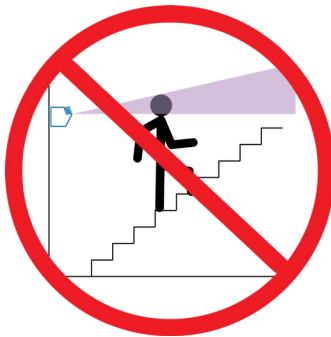
Install fixtures to irradiate the long path of the room to ensure maximum dosage and minimize reflection from walls

**Contact factory for any questions or concerns about room layout and fixture placement.**



**INCORRECT**

Do not utilize these products near balconies or mezzanines



**INCORRECT**

Do not utilize these products near stairways



**INCORRECT**

Do not utilize these products near bunk beds

# LUMENFOCUS GUA S INSTALLATION INSTRUCTIONS

CAUTION: DO NOT MAKE OR ALTER ANY OPEN HOLES IN THE ENCLOSURE DURING INSTALL.

WARNING - UV EXPOSURE RISK. USE OF PROPER PROTECTIVE GEAR REQUIRED WHEN POWERING ON

WARNING - READ AND HEED ALL SAFETY WARNINGS ON INSTRUCTIONS, SPEC SHEETS, CARTONS AND LABELS.

WARNING - RISK OF FIRE OR ELECTRIC SHOCK. UV FIXTURE INSTALLATION REQUIRES KNOWLEDGE OF LUMINAIRE ELECTRICAL SYSTEMS. IF NOT QUALIFIED DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.

## GUA S PREP FOR INSTALL

1. REMOVE SCREWS FROM THE BAFFLE COVER AND REMOVE IT
2. REMOVE SCREWS FROM THE BAFFLE ASSEMBLY AND REMOVE IT
3. REMOVE NUTS FROM REFLECTOR AND REMOVE IT

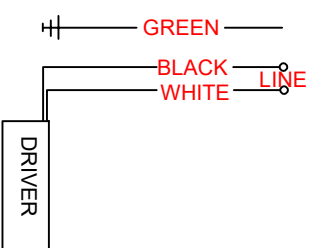


4. INSTALL MOUNTING SCREWS ON 16" CENTERS
5. HANG FIXTURE ON MOUNTING SCREWS AND TIGHTEN THEM
6. WIRE FIXTURE PER THE SCHEMATIC OR PLUG THE CORD INTO AN OUTLET



OR 2 MOUNTING SCREWS ON 32" CENTERS FOR A NON AF FIXTURE

WIRE SCHEMATIC  
Line side input to driver  
120V to 277V and all voltages in between 120V - 277V input



WHEN INSTALLING GUA S MAINTAIN GROUND ON THE FIXTURE

# LUMENFOCUS GUA S INSTALLATION INSTRUCTIONS

AFTER FIXTURE IS WIRED AND MOUNTED

1. INSTALL BAFFLE ASSEMBLY
2. INSTALL REFLECTOR
3. PEEL OFF THE REFLECTOR FILM
4. INSTALL UV T8 LAMP
5. INSTALL BAFFLE COVER
6. LEVEL THE FIXTURE

PLACE THE BAFFLE ASSEMBLY INSIDE AND INSTALL 4 SCREWS



PLACE THE REFLECTOR ON THE PEMS, INSTALL 2 NUTS, AND REMOVE BLUE PROTECTIVE FILM



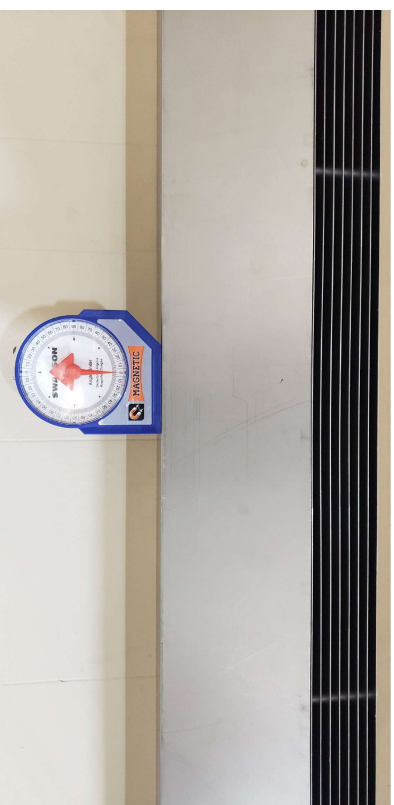
INSTALL UV LAMP THAT MEETS THE MANUFACTURER'S SPECIFICATIONS



PLACE THE BAFFLE COVER AND INSTALL 4 SCREWS



IF NOT PROPERLY LEVELED, AN UNSAFE AMOUNT OF UV MAY ENTER THE LOWER ROOM.



FIXTURE SHOULD BE PARALLEL TO THE FLOOR ALONG BOTH ITS LENGTH AND WIDTH

