



Maintenance • Service • Safety

Recommendations for Lumalier PRU Series



1931 Thomas Road | Memphis TN 38134 | 901-800-1709
EPA EST. NO. 91347-TN-002

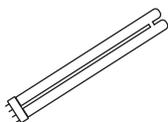
Included Parts



Inspection Gloves x1 per fixture



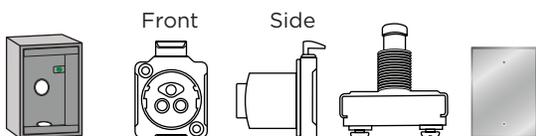
Warning Sticker x2 per AHU



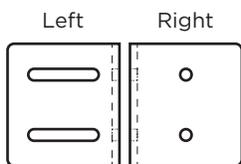
UV Lamp x1 per fixture



Viewports x2 Viewport tube x1 per AHU



J-box x1 Female x1 Blank cover x1 per AHU



J-box Bracket x1 per AHU



Magnets x4 per AHU

Maintenance and Safety

Scheduled Maintenance Procedures

Quarterly – Visually inspect lamps through a viewing window to ensure all lamps are operational.

Semi-Annually – If the lamps show visual dust accumulation, they should be cleaned.

To clean lamps:

- De-energize by switching the exterior toggle switch to the “off” position.
- Remove the UV unit from the duct. (if necessary)
- Using soft cotton gloves, remove the lamps from the UV unit.
- Using a soft cotton cloth, with isopropyl alcohol, wipe the lamps and allow to dry.
- Replace the lamps.
- Reinstall the UV unit in the duct. (if necessary)
- Turn on the exterior toggle switch.
- Inspect the lamps through the viewing port to ensure all lamps are energized.

Annually – Replace the lamps.

To replace lamps:

- De-energize by switching the exterior toggle switch to the “off” position.
- Remove the UV unit from the duct. (if necessary)
- Remove the used lamps from the UV unit.
- Wearing soft cotton gloves and using a soft cotton cloth, with isopropyl alcohol, wipe the new lamps and allow to dry.
- Install the new lamps.
- Reinstall the UV unit in the duct.
- Turn on the exterior toggle switch.
- Inspect the lamps through the viewing port to ensure all lamps are energized.

Personal Protective Equipment

Employees must wear personal protective equipment whenever UV radiation measurements are being made close to the lamp source in order to document lamp output, or when maintenance procedures must be performed in areas where UVC systems are activated. Personal Protection Equipment includes:

- Safety glasses with side shields
- Head, neck and face covering opaque to UV radiation
- Soft cotton gloves
- Long-sleeved, tightly woven fabrics with SPF 15 or greater

UV-C light WILL NOT penetrate glass.

Reporting UV Exposure

Should any temporary eye or skin irritation develop after acute exposure to UV radiation, one should contact their supervisor or physician.

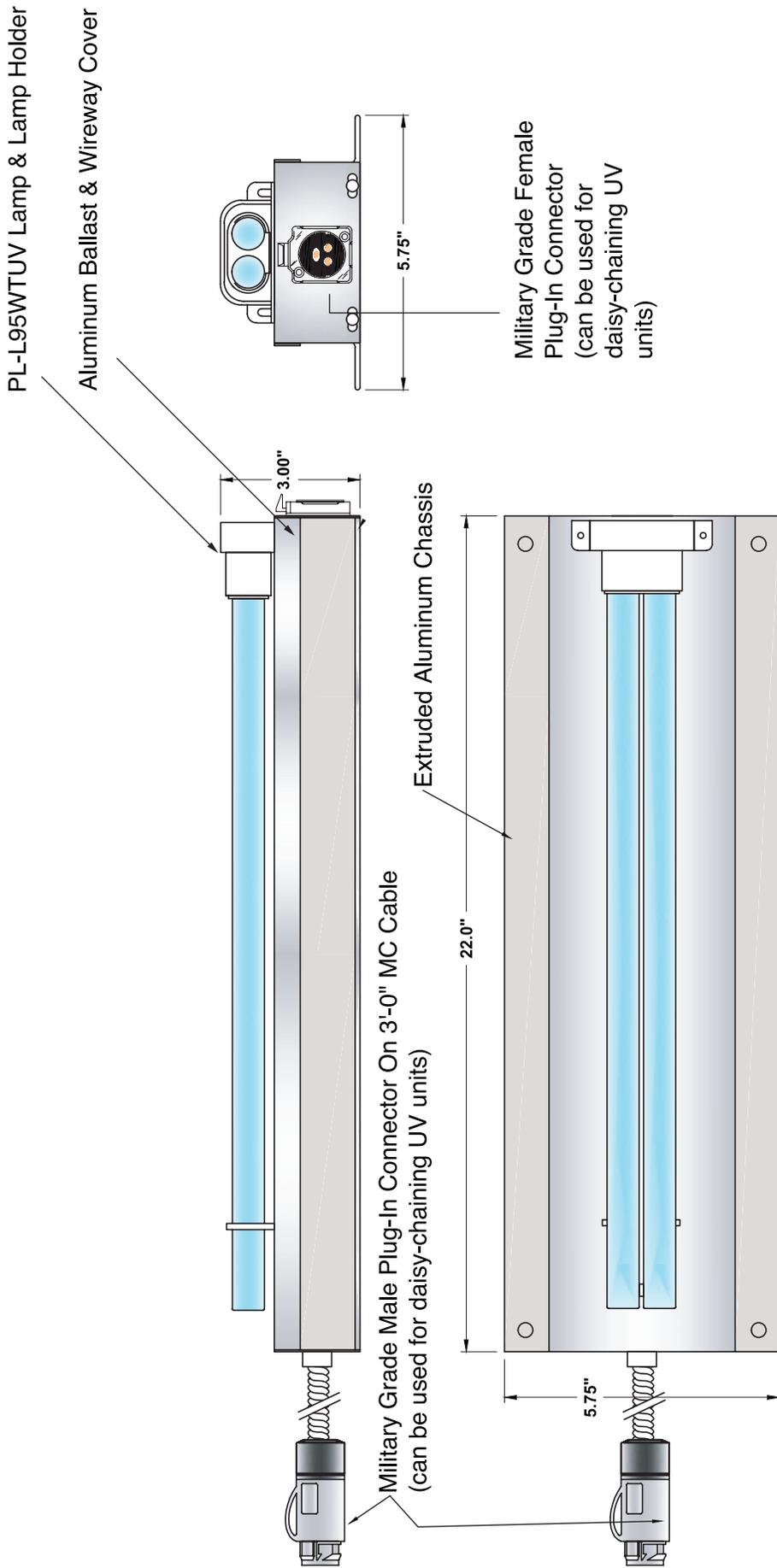
Service

Lumalier replacement parts and lamps can be purchased from authorized distributors. For information call 901-800-1709.

Material Safety Data Sheets (MSDS)

For MSDS sheets on our lamps, please contact your local Lumalier representative.

SUBMITTAL DRAWINGS 95W PRU SERIES



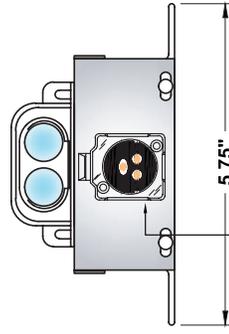
PRU-195 (1 Unit shown above)
 PRU-295 (1 Unit shown above daisy-chained)
 PRU-395 (1 Unit shown above daisy-chained)
 PRU-495 (1 Unit shown above daisy-chained)
 PRU-595 (1 Unit shown above daisy-chained)
 Multiple UV units are daisy-chained.

Electrical Requirement: (each unit) 120V/1.3A to 240V/0.56A;
 50-60 Hz; electronic ballast; black wire=power, white wire=neutral,
 green=ground
Lamp: (each unit) 95 nom. watts; 9,206 $\mu\text{W}/\text{cm}^2$ maximum

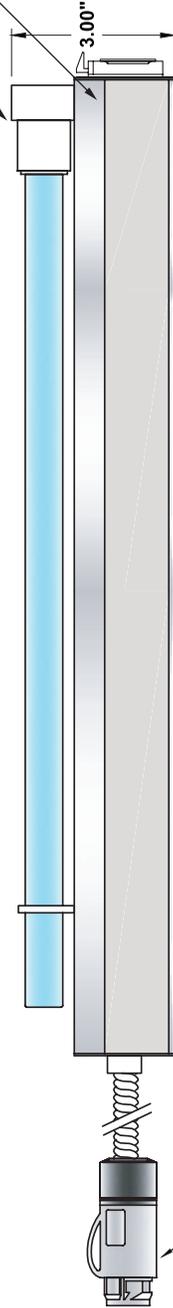
SUBMITTAL DRAWINGS 60W PRU SERIES

PL-L60WTUV Lamp & Lamp Holder

Aluminum Ballast & Wireway Cover

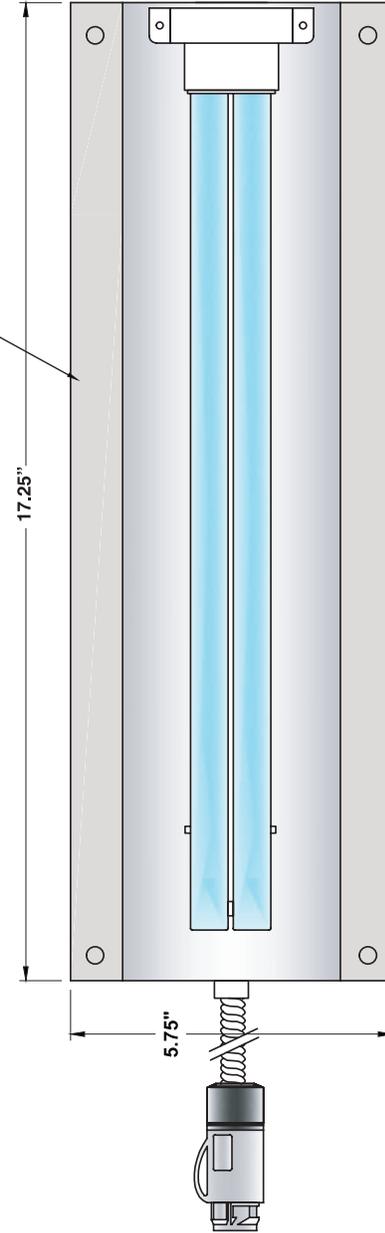


Military Grade Female Plug-In Connector (can be used for daisy-chaining UV units)



Military Grade Male Plug-In Connector On 3'-0" MC Cable (can be used for daisy-chaining UV units)

Extruded Aluminum Chassis



PRU-160 (1 Unit shown above)
 PRU-260 (1 Unit shown above daisy-chained)
 PRU-360 (1 Unit shown above daisy-chained)
 PRU-460 (1 Unit shown above daisy-chained)
 PRU-560 (1 Unit shown above daisy-chained)
 Multiple UV units are daisy-chained.

Electrical Requirement: (each unit) 120V/1.3A to 240V/0.56A;
 50-60 Hz; electronic ballast; black wire=power, white wire=neutral, green=ground
Lamp: (each unit) 95 nom. watts; 9,206 μW/cm² maximum

INSTALLATION INSTRUCTIONS

PRU SERIES

Disconnect power to installation area. All electrical work to be performed by a licensed, experienced electrician as per the National Electrical Code (NEC), local code and the facilities' code. It is the customer's responsibility to find this out.
CAUTION: Risk of exposure to excessive ultraviolet (UV) radiation - Do not operate without complete lamp enclosure in place or if glass lens is damaged.

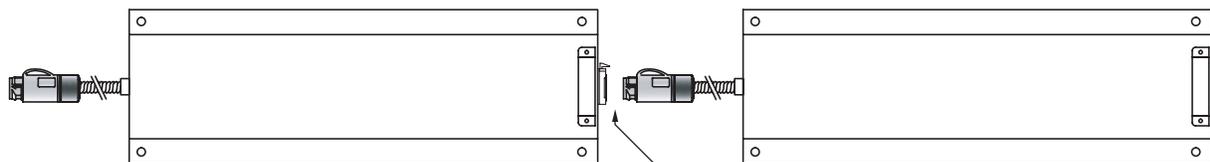
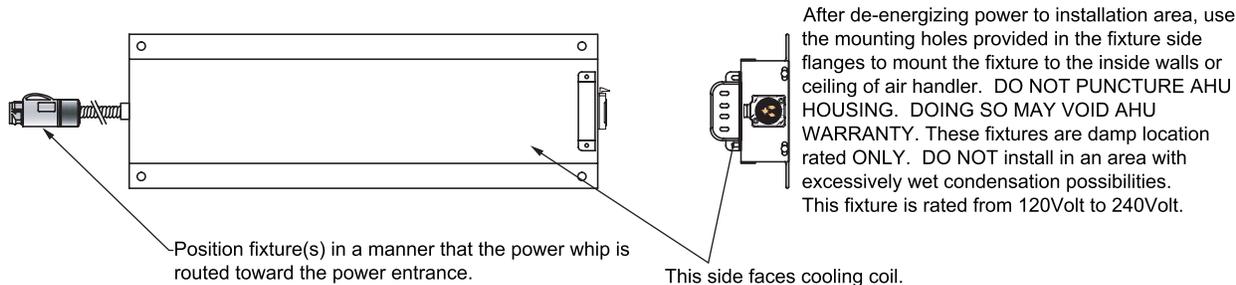
This fixture is designed for use with UVC lamps and must be installed in compliance with competent technical directions so that user's eyes and bare skin will not be subjected to injurious rays.

WARNING: Eye damage may result from directly viewing the light produced by these lamps. To reduce the risk of exposure to UV-radiation, take UV-radiation protective measures for personnel during servicing.

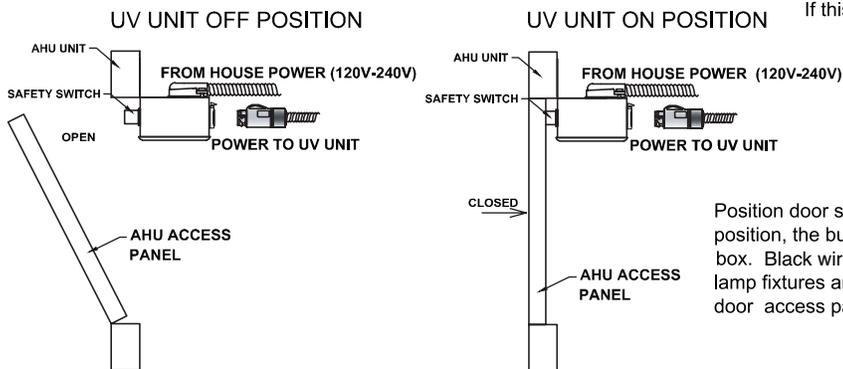
WARNING: Do not mount in direct line-of-sight of adjacent wiring or nonmetallic materials.

WARNING: Do not mount in direct line-of-sight of openings in the air handler/duct or of any access panels of a product connected to the air handler/duct.

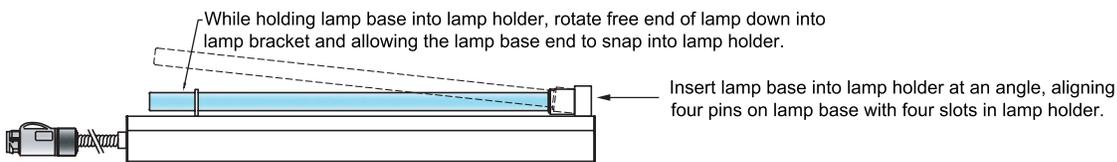
WARRANTY: THERE IS A 1-YEAR MANUFACTURER'S WARRANTY ON THE UV LAMP(S) AND A 5-YEAR MANUFACTURER'S WARRANTY ON WORKMANSHIP. ANY ATTEMPT TO REPAIR BY ANYONE OTHER THAN MANUFACTURER WILL VOID WARRANTY.



If only one fixture is to be installed, no end outlet is provided. If this is a daisy-chained install, this fixture to be at the circuit end.



Position door safety switch provided so that when door or access panel is in closed position, the button on the switch will be depressed. Route house power to this box. Black wire = Power (Hot); White wire = Neutral; Green wire = Ground lamp fixtures and test, being sure to follow safety rules, and view thru window in door access panel. A viewport is also provided if no window exists.



Troubleshooting Guide

Issue	Probable Cause and Solution
Lamp(s) flickers	Lamp is not securely seated in the socket. ✓ Remove and securely reseal lamp. Lamp is defective or at the end of its life cycle. ✓ Replace with new lamp.
Multiple lamps flicker	Connection between lamps may be loose. ✓ Check all electrical connections.
Single lamp is out	Lamp is not securely seated in the socket. ✓ Remove and securely reseal the lamp. Lamp is defective or at the end of its life cycle. ✓ Replace with new lamp. Lamp socket is broken or defective. ✓ Replace broken lamp socket. Ballast is defective. NOTE: On most UV units, one ballast is used to power two lamps; if the ballast is defective, two lamps will fail to illuminate.

Note:

To prevent damage to lamps or sockets, follow lamp replacement instructions carefully. Insert the 4 pin base of the lamp into the lamp socket at an angle, then, while holding the lamp base in socket, rotate free end of lamp up into the metal lamp clip while at the same time making sure that the free side of the lamp base snaps into the locking tab on the socket. A 'click' will be heard or felt when the lamp is properly seated. Removal is performed by reversing this action.

Always use gloves to avoid surface contamination of the lamp. Always dispose of lamps in accordance with local waste disposal laws. For reference, Philips lamps contain $\leq 5\text{mg}$ of Mercury.

Ballast replacement requires proper training, tools and skills. DO NOT attempt to secure wiring or replace ballasts without proper knowledge and training to do so.