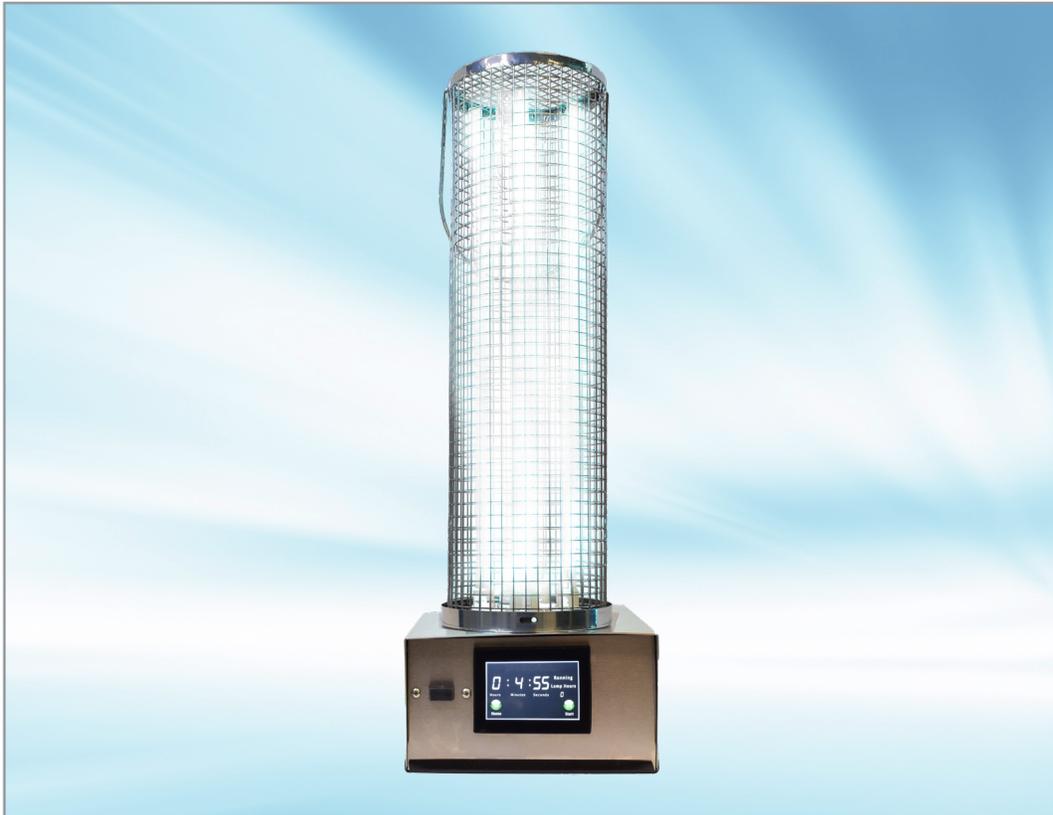




Maintenance • Service • Safety

Recommendations For Lumalier EDU Series



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

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 toggle switch to the “off” position.
- Remove the chrome mesh lamp guard.
- 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 chrome mesh lamp guard.
- Turn on the exterior toggle switch. Read warnings.
- Inspect the lamps through a viewing window to insure all lamps are energized. .

Annually – Replace the lamps.

To replace lamps:

- De-energize by switching the toggle switch to the “off” position.
- Remove the chrome mesh lamp guard.
- 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.
- Turn on the exterior toggle switch.
- Inspect the lamps through the viewing port to insure all lamps are energized.

Service

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

Safety

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

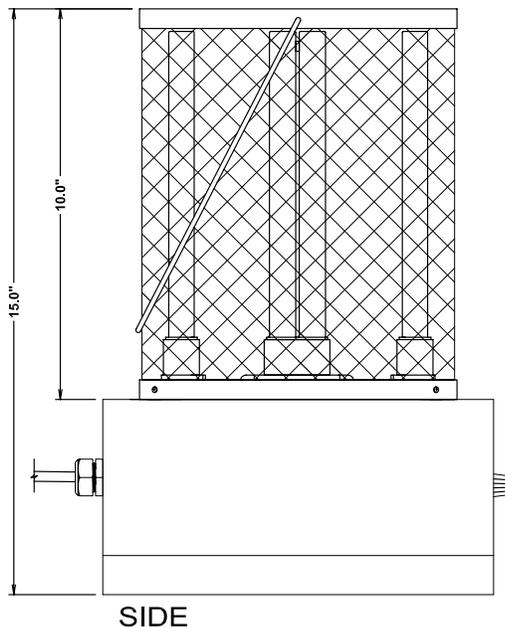
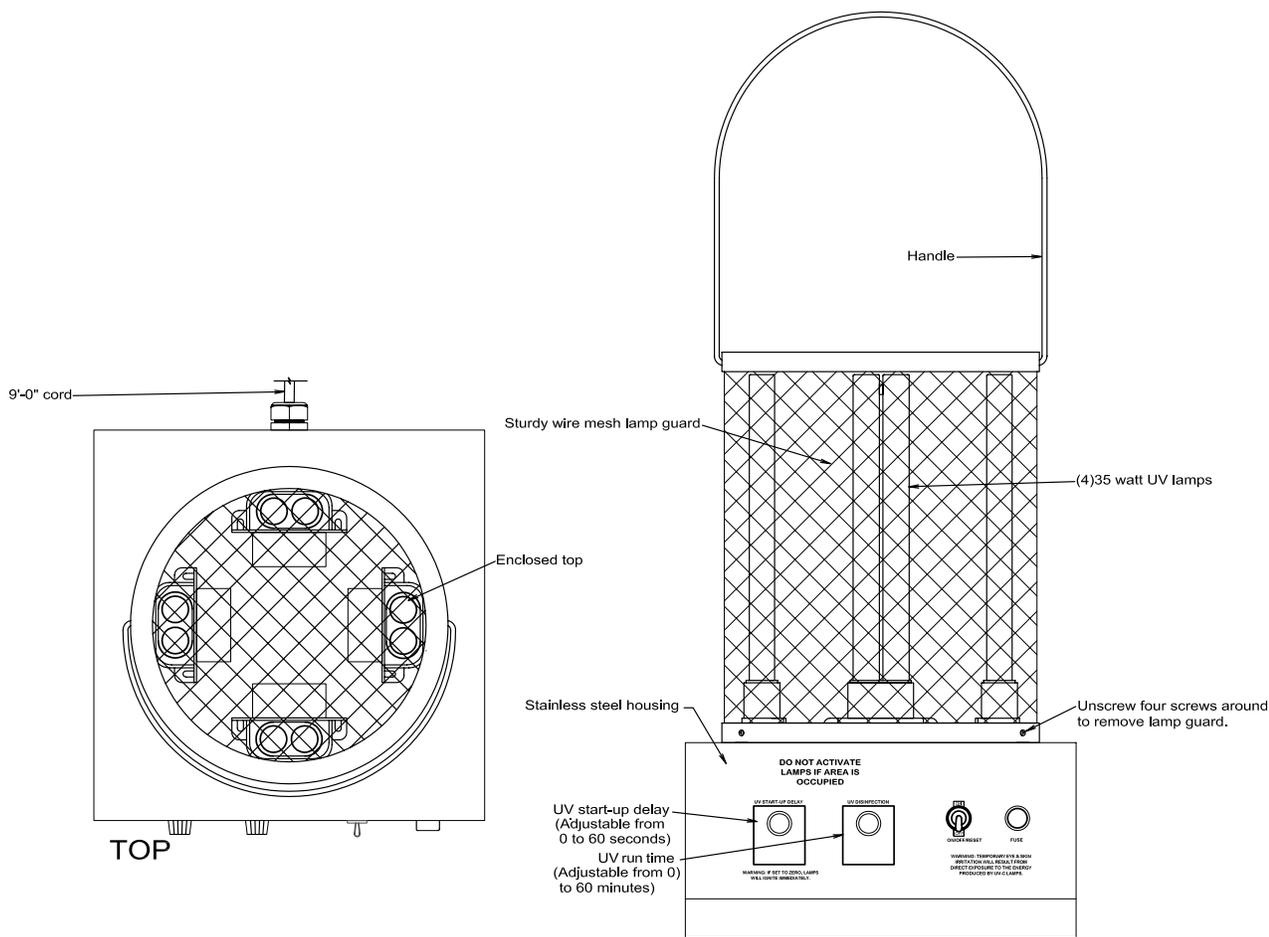
Reporting UV Exposure

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

Material Safety Data Sheets (MSDS)

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

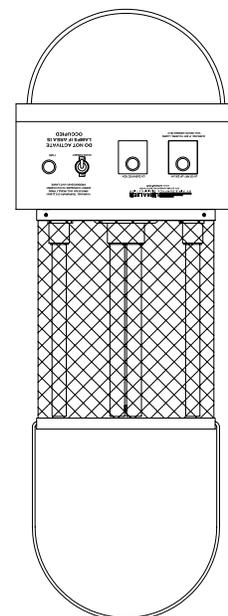
EDU PORTABLE UVC DEVICE



WARNING: Do not activate lamps if area is occupied

Eye Injury will result from directly viewing the UVC energy produced by these lamps. To reduce the risk of exposure to UV-radiation, never operate in an occupied room or without proper personal protective equipment.

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



EDU PORTABLE UVC DEVICE OPERATING INSTRUCTIONS

DO NOT ACTIVATE LAMPS IF AREA IS OCCUPIED. READ THESE INSTRUCTIONS BEFORE OPERATING UV UNIT.

This fixture is designed for use with UVC lamps and must be operated in compliance with competent technical directions so that user's eyes and bare skin will not be subjected to injurious rays. Eye injury will result from directly viewing the UVC energy produced by these lamps. To reduce the risk of exposure to UV radiation, never operate in an occupied room or without proper personal protective equipment.

1. Install lamps into sockets:

- Remove lamp guard cage by removing four screws around bottom. Lift off lamp guard.
- Using cotton gloves provided, securely install one lamp into each socket. Each lamp has four pins in base that align with four slots in socket (see illustration below).
- After inserting pins into slots, allow tab 1 of lamp to catch under tab 1 in socket. While holding tab 1 in place, rotate lamp until lamp snaps under tab 2.
- Wearing safety glasses provided, turn start time to 5 seconds, be sure that all lamps energize.
- Reinstall lamp guard onto unit base.

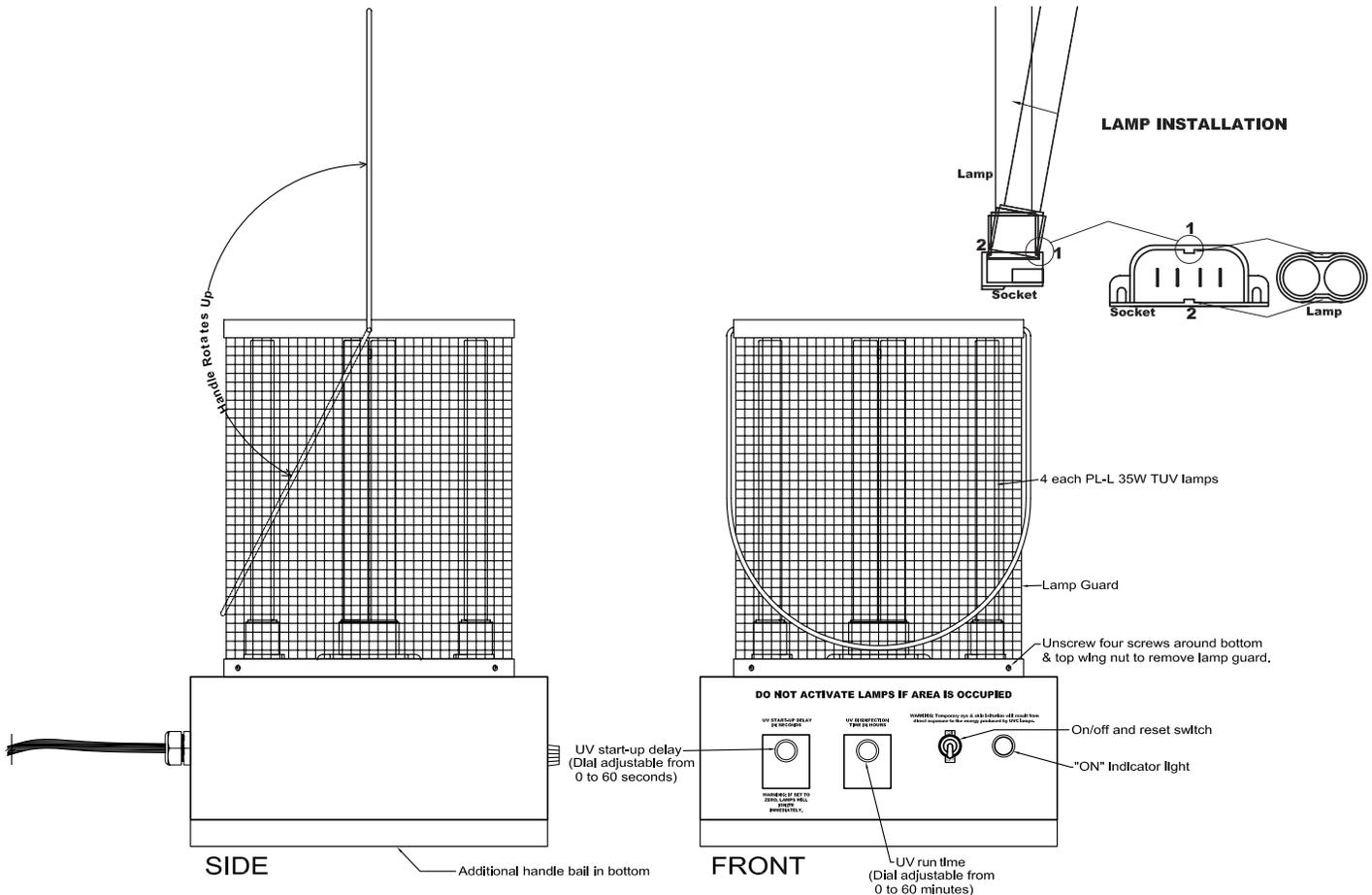
2. Position UV unit in central location in area where UVC is to be applied.

3. Be sure that the switch on fixture is in "OFF" position and supply 120V power to the 9 foot cord.

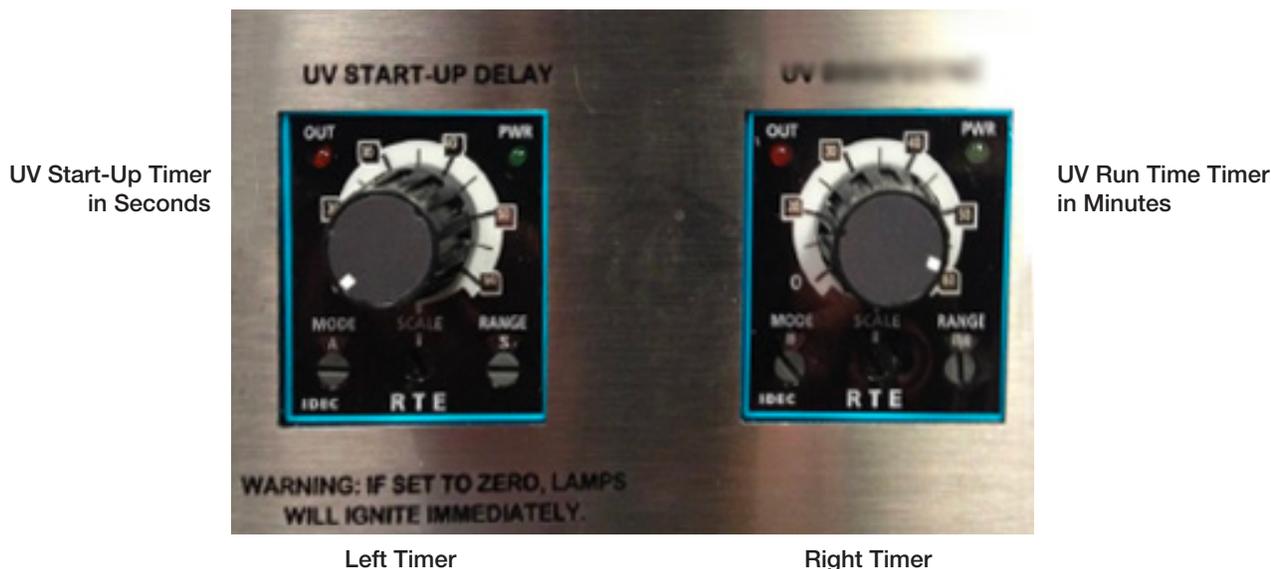
4. Set the "START-UP DELAY" dial to the desired time interval between 0 and 60 seconds. Note: If delay timer is set to zero, lamps will activate instantaneously when switch is moved to "ON" position.

5. Set the "UV RUN TIME" dial to the desired time interval between 0 and 60 minutes.

6. Ensure that the area is unoccupied and move "ON/OFF" switch to "ON" position and immediately vacate the area where the UVC is being applied. NOTE: UV unit may be hung upside down via the handle ball in bottom of unit.



CAUTION – UV RADIATION HAZARD. PROTECT EYES AND SKIN FROM UV EXPOSURE. READ ALL WARNINGS AND CAUTIONS ON FIXTURE BEFORE OPERATING!



The EDU comes pre-set with the left timer set in seconds, and the right timer set in minutes. The two timers work in conjunction with each other. The left timer controls the amount of time it takes for the EDU to turn on once the power switch is turned on. For example, if the left timer is set to “30”, then the lamps will energize in 30 seconds.

NOTE & CAUTION! IF THE LEFT TIMER IS SET TO “0”, THE LAMPS WILL IMMEDIATELY ENERGIZE. SO SET THE LEFT TIMER ABOVE ZERO.

The right timer controls the length of time the unit stays on once it powers up. For example, if the right timer is set to “60,” the unit will stay on for 60 minutes after the main power switch is turned on, and the left timer completes its countdown. It can be set from 0 to 60 minutes.

TO OPERATE THE EDU

1. Set the left timer to the desired start-up delay time. Remember, this timer is in seconds.
2. Set the right timer to the desired operation time. Remember, this timer is in minutes. Note: The minimum setting for the right timer is 0 minutes (see white indicator arrow in photo). Do not set the right timer for 0 minutes or the unit will not energize or may flicker briefly then go off.
3. Plug in the EDU. Re-read all cautions on fixture.
4. Toggle the power switch to “ON.” Immediately leave the exposure area.
5. When the operation cycle is finished and the lamps are de-energized turn the power switch to “OFF,” unplug the unit, and store it properly so it will not be damaged.

DO NOT LOOK AT THE ENERGIZED LAMPS! IF IT IS NECESSARY TO BE IN THE EXPOSURE AREA, SAFETY GLASSES AND FULL COVERAGE OF ALL SKIN MUST BE WORN. EXPOSURE TO UV ENERGY WILL CAUSE TEMPORARY EYE IRRITATION AND SKIN REDDENING (SUNBURN).

EDU Parts List

Part	Manufacturer	Part No.	Description
Ballast	Advance	IUV-2S60-M4-LD	Multi voltage 120 thru 277
Sockets	Edwin Gaynor	286-SC	
Wire	TEWN	18Ga.	Black, white, green, red, blue, yellow
Fuse	ADL	MDL-10	10A; to 480V; Enclosed Snap-action
Fuse Holder	BUSS	HKP-HH 15A	
Lamps	Philips	PL-L 35W TUV	
Squeeze Connectors	3M	L501	Drop-down
Toggle Switch	OMRON	O85720134	1/4A/250V;3/4A/125V
9'-0" Power Cord		E243929	3-Conductor
Timer	IDEC	RTE-P1AF20	240V AC, 30V DC, DPDT
Timer	IDEC	RTE-P1AF20	240V AC, 30V DC, DPDT
Lamp Guard	n/a	n/a	8" dia. x 10"; 0.25x0.25 wire mesh chrome