



Maintenance • Service • Safety

Recommendations for Lumalier Upper Air 2x2 Series



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

Safety First

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Personal Protective Equipment

Employees must wear personal protective equipment whenever UV irradiation measurements are being made close to the lamp source to document lamp output, or when maintenance procedures must be performed in areas where UVC systems are activated. Overexposure may lead to a temporary, minor eye irritation or skin reddening it does not cause serious or long-term health effects. Personal Protection Equipment includes:

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

Safe Installation

All installation is to be performed by qualified personnel and according to the NEC (National Electrical Code) and local code. DO NOT MOUNT BELOW 7'-0" (213.4cm) FROM FLOOR TO BOTTOM OF FIXTURE.

This equipment is designed for use with UVC irradiation sources and must be installed in compliance with competent technical directions to prevent risk of personal injury from UV irradiation. UV irradiation can pose a risk of personal injury. Over exposure can result in temporary damage to eyes and bare skin. To reduce the risk of over exposure, this equipment must be installed in accordance with the manufacturer's site planning recommendations.

UV and optical irradiation 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.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PERSONS WILL NOT BE EXPOSED TO EXCESSIVE UV OR OPTICAL IRRADIATION 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. THESE DEVICES ARE NOT INTENDED FOR GENERAL ILLUMINATION.



Ozone Caution

Ozone has been proven to be hazardous to human health. It can cause moderate to severe and chronic breathing problems. Some UVC lamps produce ozone and these must be avoided. The only UVC lamp(s) that is recommended, is the Philips brand lamps. They do not produce ozone. If other than Philips lamps are ordered and to be installed, it must be specified in the lamp data that the lamps are ozone-free.

Material Safety Data Sheets (MSDS)

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

The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition. Do not use this equipment for other than intended use.

Maintenance

Scheduled Maintenance Procedures

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

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

To clean lamps:

- De-energize the 2X2 UV unit using the ON/OFF switch.
- Remove the bottom cover.
- 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. **Use only 35W, (PL-L35WTUV) or 18W, (PL-L18WTUV) non-ozone lamps.**
- Reinstall the cover.
- Read warnings. Turn on the ON/OFF switch.
- Inspect the lamps from below the fixture to insure all lamps are energized.

Bi-Annually – Replace the lamps.

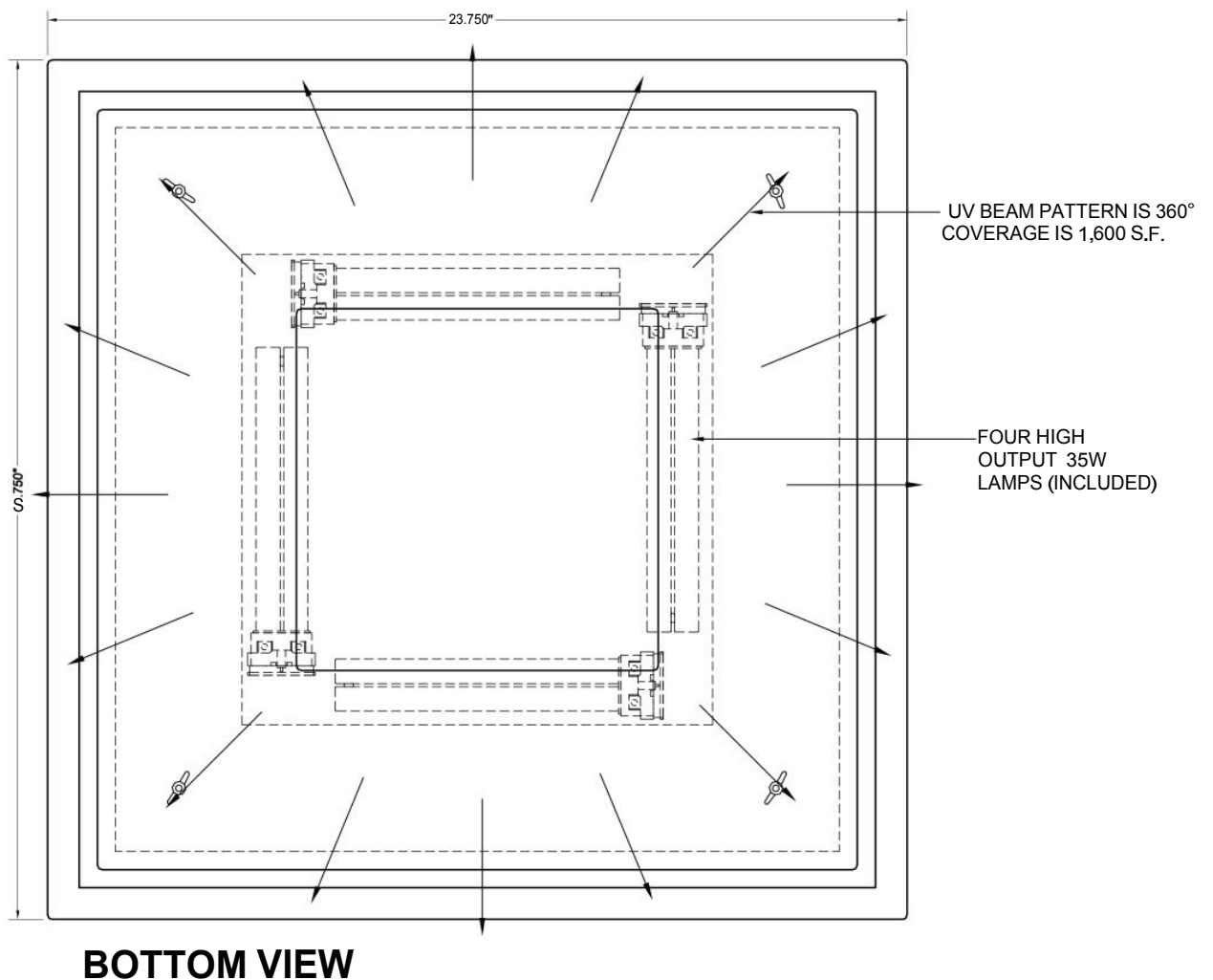
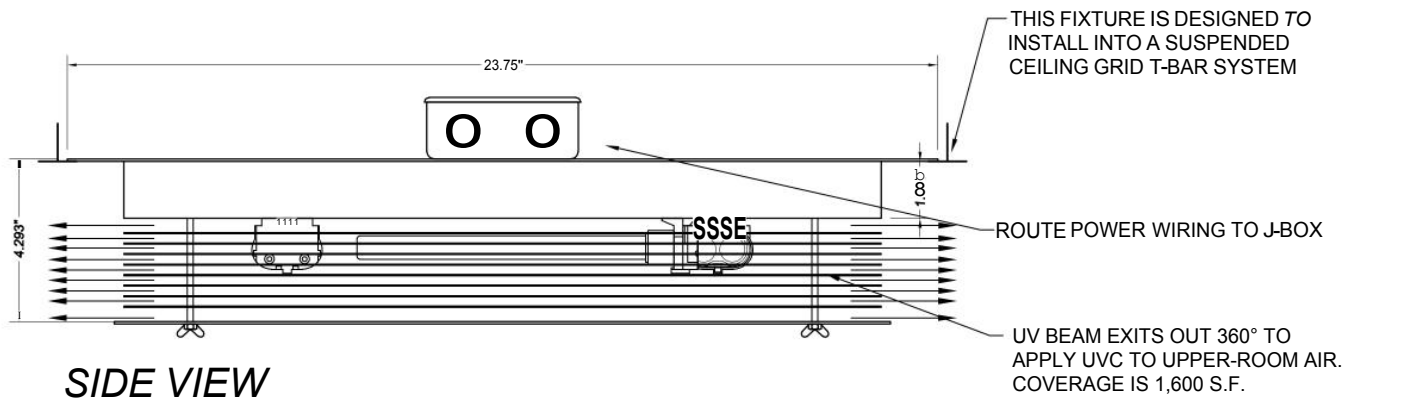
To replace lamps:

- De-energize by switching the toggle switch to the “off” position.
- Remove the cover.
- 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. **Use only 35W, (PL-L35WTUV) or 18W, (PL-L18WTUV) non-ozone lamps.**
- Reinstall the bottom cover. Read warnings. Turn on the ON/OFF switch.
- Inspect the lamps from below the fixture to ensure all lamps are energized.

All maintenance and service to be performed by qualified personnel while following safety instructions.

Service

Lumalier replacement parts and lamps can be purchased from authorized distributors or directly. For technical assistance or information call 901-800-1709 or email@evergreenuv.com.



SUBMITTAL DRAWING

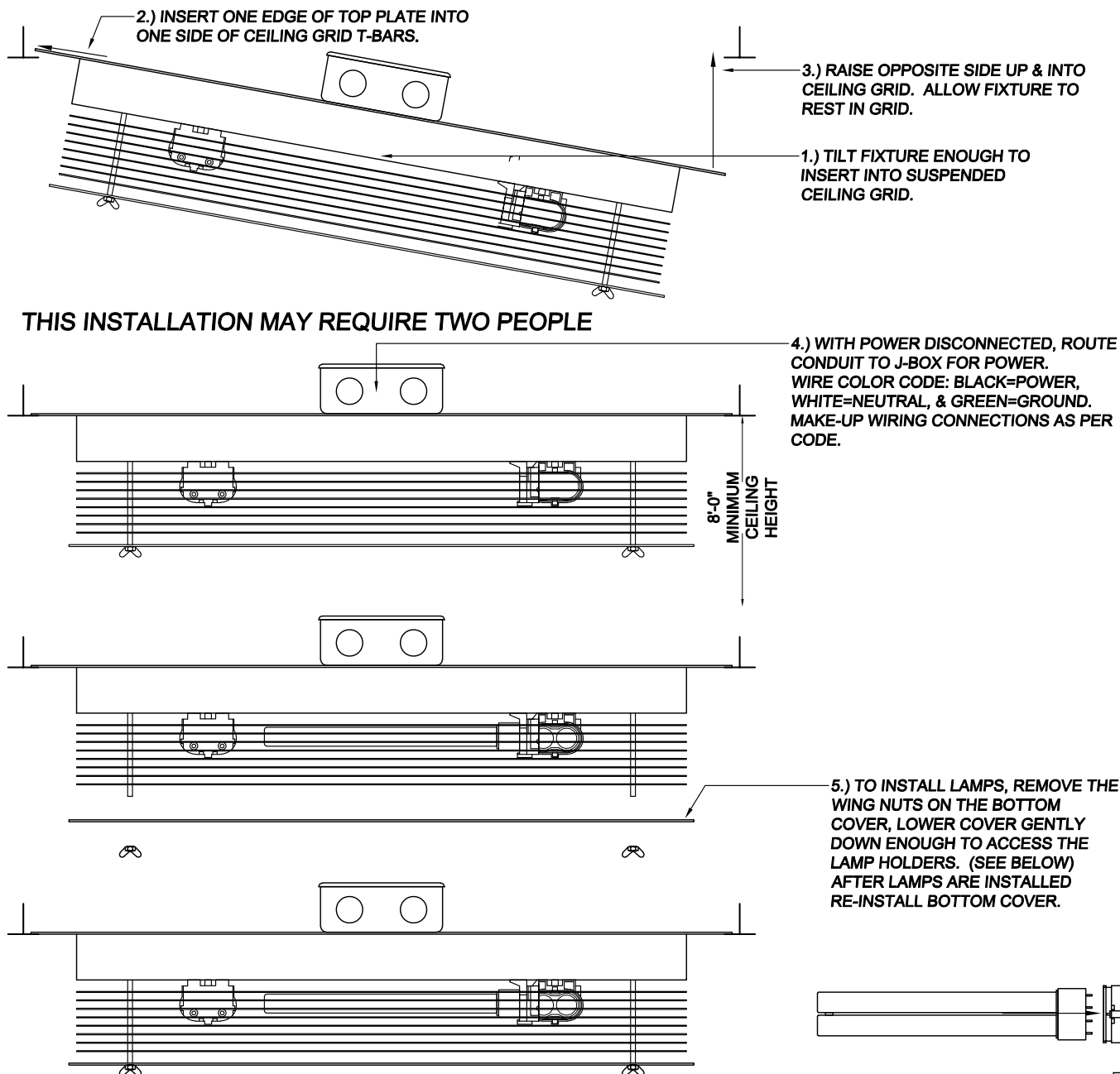
2X2-435

ELECTRICAL REQUIREMENT: 120V/1.16A TO 277V/0.5A; 50-60 Hz

LAMPS: 140 NOMINAL WATTS; 44 UV WATTS

1,600 S.F. COVERAGE

Standard Grid Install



Fixture can now be powered & tested AFTER taking UV protective measures.

WARNING: TEMPORARY EYE DAMAGE MAY RESULT FROM DIRECTLY VIEWING THE LIGHT PRODUCED BY THESE LAMPS. TO REDUCE THE RISK OF EXPOSURE TO UV-IRRADIATION, TAKE UV-IRRADIATION PROTECTIVE MEASURES FOR PERSONNEL DURING SERVICING. WEAR EYE & SKIN PROTECTION.

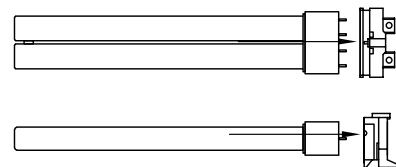
2X2-435

INSTALLATION INSTRUCTIONS WITHOUT FAN

ELECTRICAL REQUIREMENT: 120V/1.16A TO 277V/0.5A; 50-60 Hz

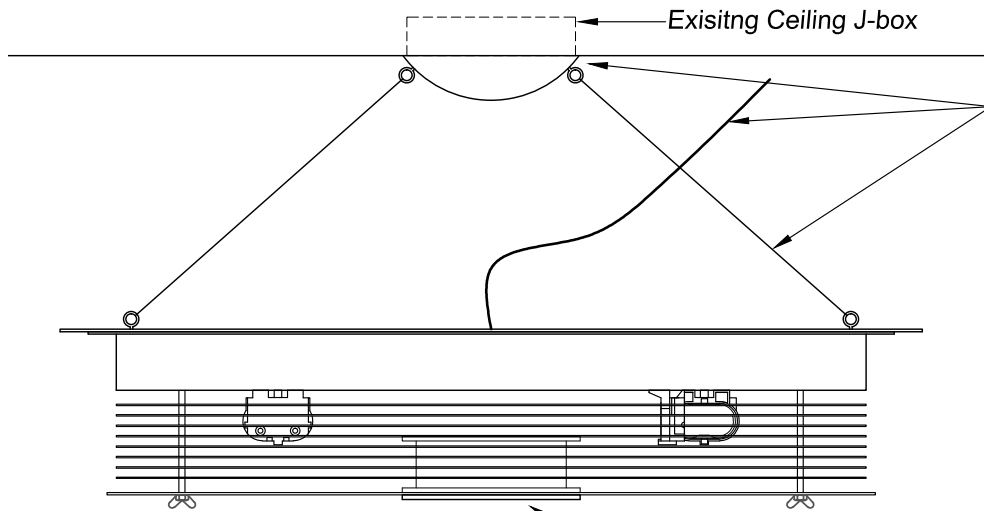
LAMPS: 140 NOM. WATTS; 44 UV WATTS

1,600 S. F. COVERAGE



CAREFULLY ALIGN LAMP BASE INSIDE LAMP HOLDER BETWEEN THE METAL TABS INSIDE THE HOLDER AND ALIGNING WITH PINS ON LAMP BASE & THE SLOTS IN THE HOLDER. PUSH LAMP IN UNTIL IT SNAPS IN PLACE.

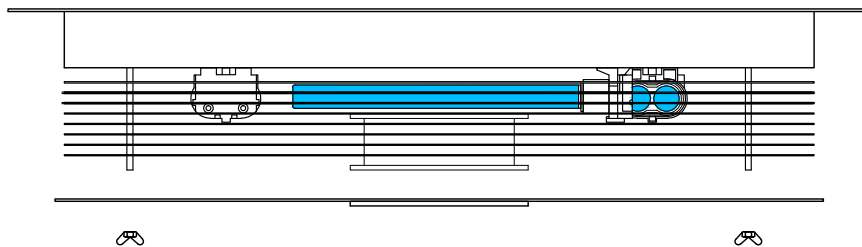
Optional Cable Install



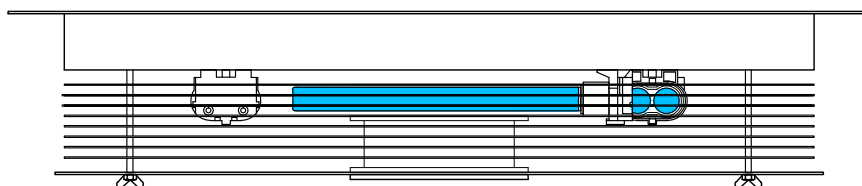
1.) Install ceiling canopy to j-box. Using cable provided, suspend fixture. Power to fixture is by cord & plug to a close by outlet or can be routed to j-box to be hardwired.

NOTE: This unit can also be suspended by a threaded rod at each corner from structure above.

Dust filter is located inside the black grill on the cover. Snap off the plastic grill, remove filter, gently wash with soap and water, re-install filter & grill.



2.) With power disconnected, install lamps. Remove the wing nuts on the bottom cover, remove cover to access the lamp sockets. (see below) After lamps are installed re-install bottom cover.



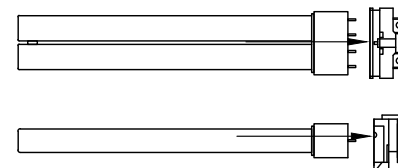
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2X2-435

INSTALLATION INSTRUCTIONS

Electrical Requirement: 120V/2.6A (grounded)
Lamps: 70 nominal watts; 44 UVW



Carefully align lamp base inside lamp holder between the metal tabs inside the holder and aligning with pins on lamp base & the slots in the holder. Push lamp in until it snaps in place.