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IND-TRF-2X2-FUVC-EX-1L-V1-MS

40W 2X2 Recessed Troffer Mount UV Sanitation Fixture - 120/277V AC - (1) Far-UVC Excimer Lamp - Kill 99% of Viruses - Motion Sensor

Product ID: 270753

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

This unit is Made In USA - Manufactured in Texas

IND-TRF-2X2-FUVC-EX-1L-V1-MS Recessed Troffer Mount Far UV-C Sanitation Light	Ratings
Unit Type: UV-C Germicidal Excimer Troffer Light	222nm Germicidal Light
Lamp Technology: UV Excimer Sanitation	Kills 99% of Viruses and Other Germs
Lamp Qty: (1)	Mercury Free Lamp
Dimensions: 2' x 2'	Instant-On Lamp, No Warm Up Time
Weight: -	More Efficient & Effective than UVC Lamps
Voltage: 120-277V AC, 50/60 Hz	No Harmful UVC Emissions
Total Watts: 40W	No Block Off/Bandpass/Cutoff Filters) Needed
Total UV-C Output: -	Skin Safe & Eye Safe
Effective UV Intensity: 40 uW/cm2 @ 1.57"	Ozone Free
Expected Lifespan: 10,000+ Hours	Low Heat Output
UV Wavelength: Far UV-C, 222nm	Built-in Earthquake Brackets
Maximum Area Coverage: 200 Square Feet (Depending on Mounting Height)	360° Motion Sensor
Lamp Type: UV-C Excimer	EPA Reg. No 98409-1
Lamp Base: -	EPA Est. No. 98409-TX-1
Replacement Lamp: FRL-EMX-6-40W-FUVC	
Beam Angle: -	
Lighting Configuration: Flood Pattern	
Motion Sensor: Yes - 360° Auto Shut-Off Motion Sensor	
Power Factor: -	
Operating Temperature Range: -	**Special Orders - Special Requirements**
Lamp Lens Material: Quartz Glass	Contact us for special requirements
Housing: Cold Rolled Steel	**Intl:** 1-903-270-1187

Finish: Flat White Polyester Finish

Mounting: 2' x 2' Troffer in Inverted T-Bar Grid Ceiling

Cord: -

PLEASE NOTE: UV-C light can cause temporary or permanent loss of vision, and temporary acute redness or ulceration (mild to severe sunburn) to exposed skin. To prevent exposure, do not operate the device in any application that allows UV-C light to be visible during operation. NEVER LOOK DIRECTLY AT THE BULB OR DISINFECTING TARGET ZONE. DO NOT touch bulb with bare hands. The oils in your skin will damage the lamp. Fingerprints will result in reduced performance and significantly reduce the lifespan of the lamp unless they are removed with alcohol. Please read instruction manual for UV safety requirements before operating.

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The Larson Electronics IND-TRF-2X2-FUVC-EX-1L-V1 Recessed Troffer Mount Far-UV Sanitation Fixture disinfects 99% of viruses, bacteria, mold and spores in large facilities. This eye and skin safe disinfection solution uses one 40-watt excimer lamp that emits far-UV 222 nm germicidal light. A single IND-TRF-2X2-FUVC-EX-1L-V1 unit can cover a maximum of 200 square feet, depending on the mounting height. This unit is equipped with a motion sensor that automatically shuts the unit down when motion is detected.

Please note: This product produces UV light. Make sure to follow all safety guidelines and protocols found in the user manual. UVC light in the proper setting kills up to 99.9% of viruses, mold, spores and bacteria. Click here to learn more about UVC and the corona virus*

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

The IND-TRF-2X2-FUVC-EX-1L-V1 UV sanitation fixture is a 2-foot long by 2-foot wide, powerful lighting solution for general areas and commercial indoor spaces. This 40-watt troffer mount unit consists of one 40-watt excimer lamp that provides 222nm far UV-C output. Equipped with an expected lifespan of 10,000+ hours, the light emits a flood beam pattern. The housing on this sanitation unit is constructed of direct/indirect formed cold rolled steel housing with a nanoceramic treatment for enhanced resistance to corrosion, and topped off with a flat white powder coat finish. This recessed troffer mount fixture also includes built-in earthquake brackets for resistance to violent vibrations.

Far-UV 222 nm light is considered to be eye and skin safe for humans, allowing the lamps to be used in occupied areas safely with minimum risk. The 222 nm wavelength does not penetrate the cornea of the eye and cannot impose corneal impairment. Additionally, this UV band is blocked by the top layer of skin (stratum corneum) which protects underlying cells from damage. Exposure to far-UV 222 nm lamp does not cause skin inflammation or swelling. Due to these safety benefits, extensive protective clothing is not required when using this type of sanitation light in occupied areas.

Benefits of Excimer Far UV Lamps: When it comes to Far-UV lamps, there are few options in the skin-safe and eye-safe wavelengths. Similar to LED lamps, excimer lamps provide “instant-on” startup, and do not require a warmup period; excimer lamps are at 100% peak output when switched on. Most lamp technologies that do product UVC use mercury in the manufacturing process. Excimer lamps have ZERO mercury, making them more environmentally friendly. Excimer lamps can be tuned to specific wavelengths (222nm wavelength for this product) and produce no harmful UVC radiation or wasteful visible light and infrared light. Excimer lamps are more efficient at converting electricity (input power) into UV irradiance, which reduces the heat output from excimer lamps over other technologies. Fluorescent, amalgam, low-pressure mercury, and high-pressure mercury lamps do not product as tight of a wavelength and generate more heat, both of which wastes energy for the UV sanitation application. Excimer lamps have a higher average UV irradiance per square inch and have a higher photon emission over other lamp technologies. Being safe for use in occupied areas, instant-on power, mercury free, higher UV output, and low heat output make Far-UV excimer lamps the preferred choice for UV sanitation and disinfecting

applications.
Germicidal excimer lamps emit far-UV 222 nm light that is generated by specific excimer molecules. The far-UV lights come with an expected lifespan of 10,000+ hours. This gas-filled emitter is energy efficient and offers cool operation. A power supply is typically utilized with the non-toxic lamp to ensure consistent UV output. The sanitation light, which is suitable for use in occupied areas, features instant start capabilities.
Motion Sensor: This fixture is equipped with a motion sensor for an additional layer of safety while the unit is in use. Due to the potential harm UVC light can cause to a person`s skin and vision, it is unsafe to be near the light while it is powered on. To avoid accidental exposure to the UV light produced by this sanitation cart, it is equipped with a 360° motion sensor. When the motion sensor detects movement, it will power off the light. When no motion has been detected for at least 5 minutes, the unit will power back on.
Mounting: The low profile sanitation light allows operators to install it in shallow or compact spaces. This troffer mount UV-C germicidal fixture is for recessed mounting in 2` x 2` inverted T-Bar grid ceilings.
Note on Environment: Sunlight and visible light fixtures do not impact the effectiveness of the disinfecting on this UVC sanitation product. Metal halide, high pressure sodium, fluorescent, and LED light fixtures can be left on. The UV radiation emitted from this product is not disrupted by any type of lighting in the environment. Put simply, NO it DOES NOT need to be dark in the area you plan to disinfect. Please see user manual for additional safety information.
Applications: Sanitation, disinfection, retail spaces, lobbies, commercial locations, industrial parks, schools, public transportation hubs, airports, office buildings, medical centers and more; kill 99% of viruses, bacteria, mold and spores.
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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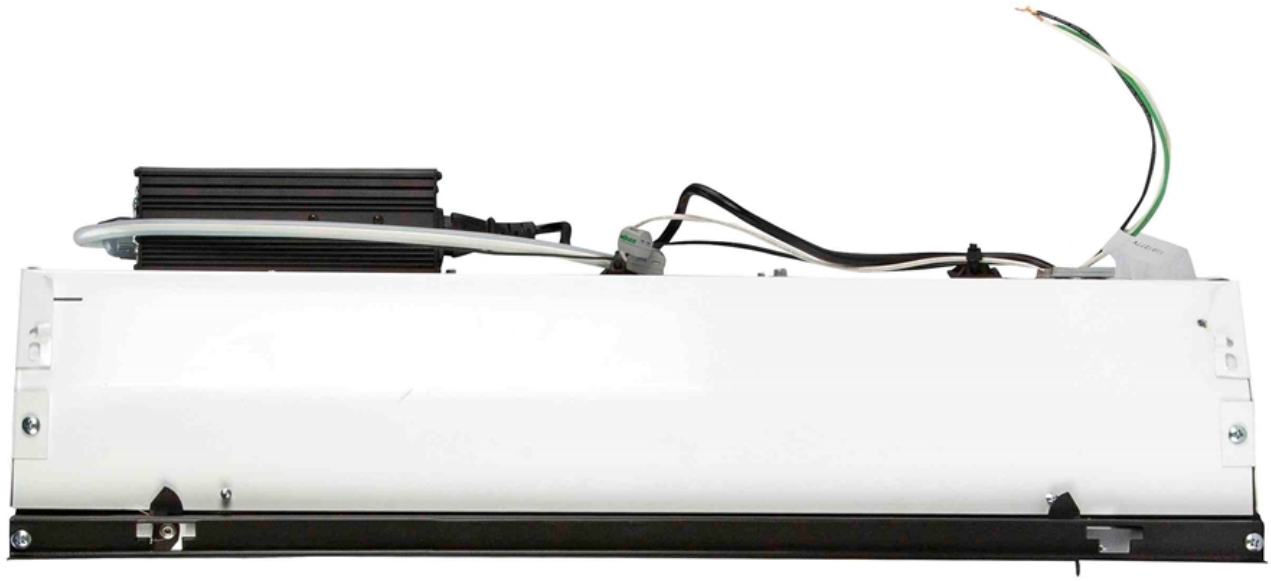
Frequently Asked Questions (FAQ)

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- Catalog Page - Product Series
- Certificate 1, Misc
- Certificate 4, Misc
- Dimensional Drawing 2D
- Eye Safety Information/Certificate
- Lighting Facts & Information
- MSDS (Material Safety Data Sheet
- Operations Manual
- Spectrum Curve (Wavelength Graph)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map