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IND-DHA-FUVC-EX-12-1L-V1

40W Far-UV Excimer Disinfection Fixture - (1) 222nm Lamp - 1-Foot Fixture - L Bracket End Mount

Product ID: 268740

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-DHA-FUVC-EX-12-1L-V1 Far UV-C Sanitation Light Fixture

Unit Type: Far UV-C Germicidal Fixture
Lamp Technology: UV Excimer Sanitation
Lamp Qty: (1)
Dimensions: 14.5"L x 7"W x 8"-H
Weight: -
Voltage: 120V
Total Watts: 40W
Total UV-C Output: -
Effective UV Intensity: 40 uW/cm2 @ 1.57"
Expected Lifespan: 10,000+ Hours
UV Wavelength: Far UV-C, 222nm
Lamp Type: UV-C Excimer
Lamp Base: -
Replacement Lamp: FRL-EMX-6-40W-FUVC
Beam Angle: 180º
Lighting Configuration: Flood Pattern
Power Factor: -
Operating Temperature Range: -
Lamp Lens Material: N/A
Housing: Aluminum
Finish: 2-layer Powder Coated Finish - Grey

Ratings

222nm Germicidal Light
Kills 99% of Viruses and Other Germs
Mercury Free Lamp
Instant-On Lamp, No Warm Up Time
More Efficient & Effective than UVC Lamps
No Harmful UVC Emissions
No Block Off/Bandpass/Cutoff Filters) Needed
Skin Safe & Eye Safe
Ozone Free
Low Heat Output
EPA Reg. No 98409-1
EPA Est. No. 98409-TX-1

Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187

Mounting: End Mount L-brackets

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-DHA-FUVC-EX-12-1L-V1 Far-UV Sanitation Fixture disinfects 99% of viruses, bacteria, mold and spores in locations requiring an aesthetically pleasing germicidal fixture for occupied areas. This eye and skin safe disinfection unit uses one 40-watt excimer lamp that emits far-UV 222 nm germicidal light. Protected by a heavy-duty aluminum housing with a 2-layer powder coated grey finish, the germicidal light features end mount L-brackets.

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*

The IND-DHA-FUVC-EX-12-1L-V1 UV sanitation fixture is a powerful and sleek lighting solution for restaurants, businesses, busy locations and occupied areas. This 40-watt 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 aluminum with a 2-layer powder coated grey finish for durability.

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.

Distance from Cart**	Irradiance/Second	Exposure Time Required (2mJ)*
0.5 inch	6000 uW/cm2	0.33 seconds
1 inch	4615.977 uW/cm2	0.43 seconds
2 inch	3550.751 uW/cm2	0.56 seconds

3 inch	2506.413 uW/cm2	0.80 seconds
4 inch	2044.705 uW/cm2	0.98 seconds
6 inch	1418.102 uW/cm2	1.41 seconds
8 inch	1082.814 uW/cm2	1.85 seconds
10 inch	872.8472 uW/cm2	2.29 seconds
12 inch	712.3488 uW/cm2	2.81 seconds
14 inch	588.1275 uW/cm2	3.40 seconds
18 inch	395.7494 uW/cm2	5.05 seconds
2 foot	256.1378 uW/cm2	7.81 seconds
3 foot	134.1151 uW/cm2	14.91 seconds
3.28 foot	109.9304 uW/cm2	18.19 seconds
4 foot	75.85196 uW/cm2	26.37 seconds
5 foot	49.86442 uW/cm2	40.11 seconds
6 foot	35.54416 uW/cm2	56.27 seconds
7 foot	26.78712 uW/cm2	1.24 minutes
8 foot	21.02418 uW/cm2	1.59 minutes
9 foot	17.01885 uW/cm2	1.96 minutes
10 foot	14.11506 uW/cm2	2.36 minutes
11 foot	11.93789 uW/cm2	2.79 minutes
12 foot	7.83 uW/cm2	3.25 minutes
13 foot	8.937535 uW/cm2	3.73 minutes
14 foot	7.874605 uW/cm2	4.23 minutes
15 foot	7.006229 uW/cm2	4.76 minutes
18 foot	5.170799 uW/cm2	6.45 minutes
20 foot	4.353243 uW/cm2	7.66 minutes
22.5 foot	3.602459 uW/cm2	9.25 minutes
25 foot	3.049908 uW/cm2	10.93 minutes
28 foot	2.557564 uW/cm2	13.03 minutes
30 foot	2.301209 uW/cm2	14.49 minutes
32.5 foot	2.038851 uW/cm2	16.35 minutes
35 foot	1.825293 uW/cm2	18.26 minutes
40 foot	1.50055 uW/cm2	22.21 minutes

*Exposure time is based off of total irradiance. The above calculations are based on 2mJ total exposure. This level of exposure deactivates most organisms.
**Distance from cart is surface distance from each side.

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.

Mounting: The far-UV sanitation fixture contains end mount L-brackets for mounting during installation.

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.

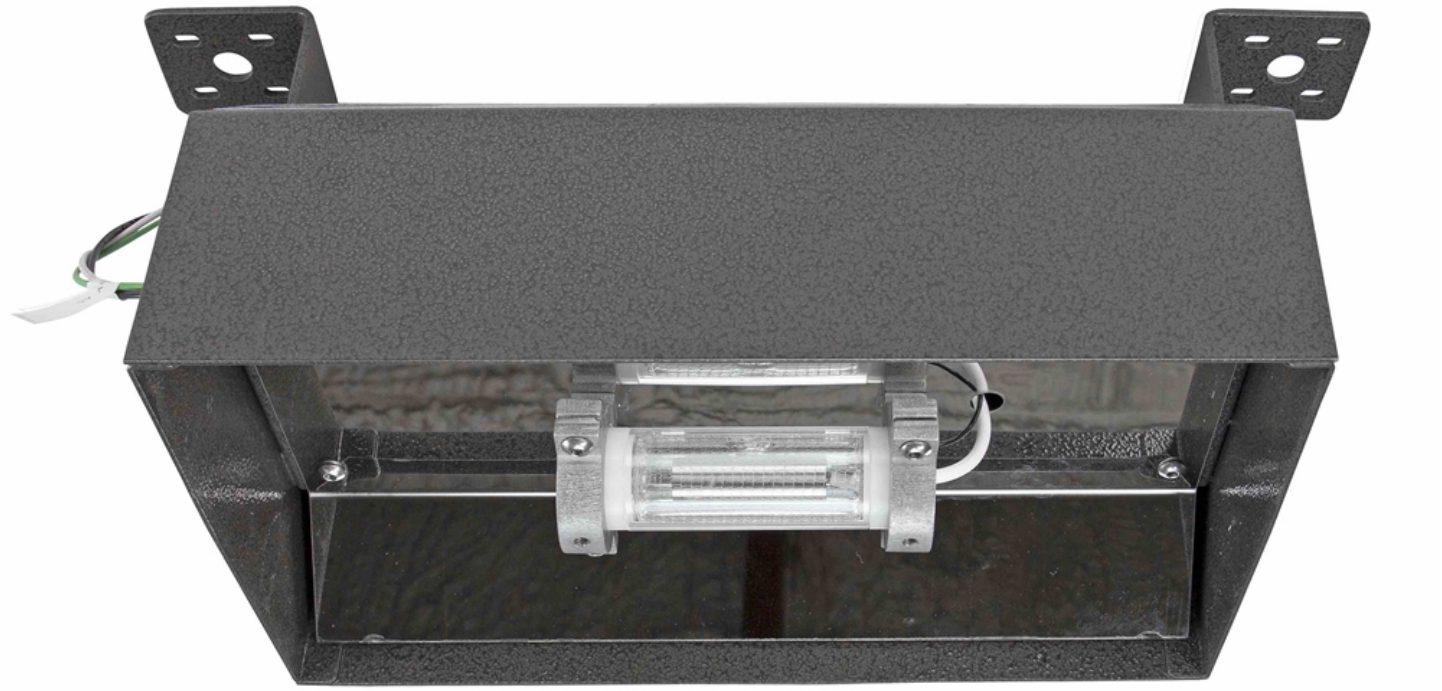
Applications: Sanitation, disinfection, restaurants, retail spaces, lobbies, commercial locations, industrial parks, schools, public transportation hubs, airports, office buildings, medical centers and more; kill 99% of viruses, bacteria, mold and spores.

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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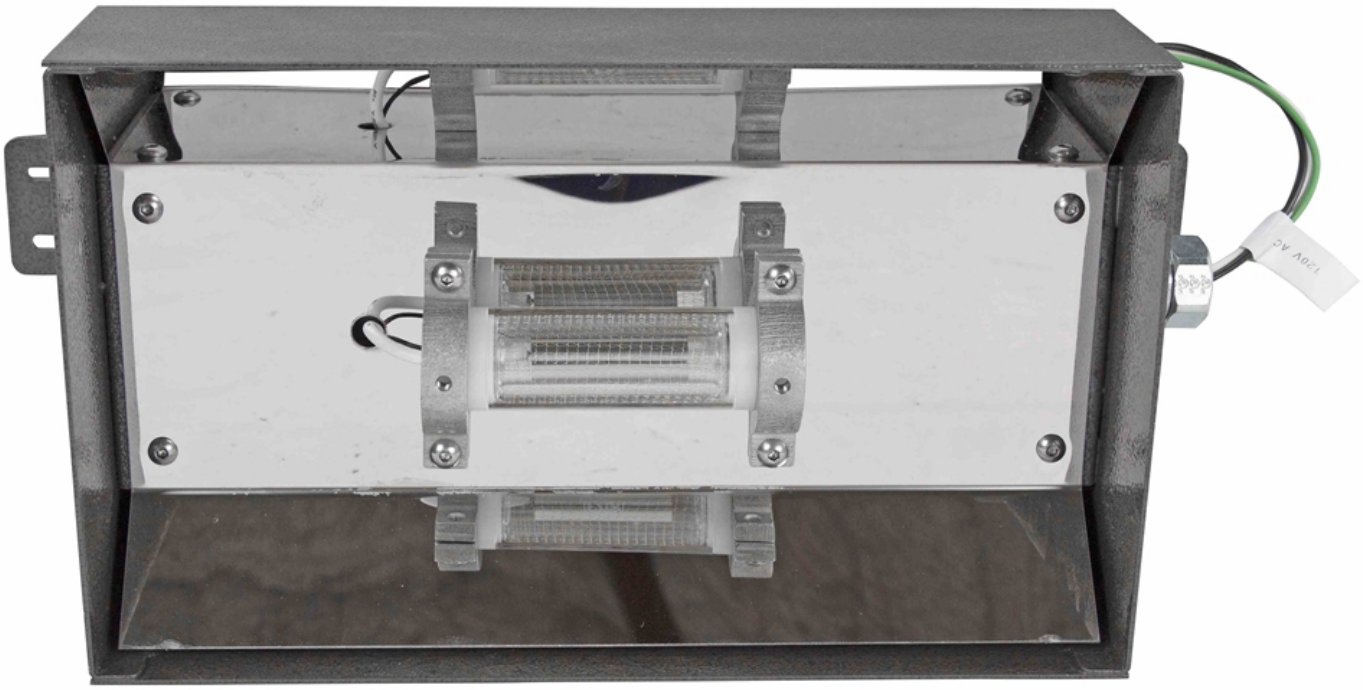
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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- Beam Information (Coverage, Datafile)
- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- Catalog Page - Product Series
- Certificate 1, Misc
- Certificate 4, Misc
- Eye Safety Information/Certificate
- Lighting Facts & Information
- 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