Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

IND-SS-48-5L-UVC

180W Industrial UVC Fluorescent Fixture - 304 SS - (5) 4' UV T8 Lamps - Surface Mount

Product ID: 222319

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-SS-48-5L-UVC Industrial UVC Fixture

Listing: -
Lamp Technology: UV Fluorescent
Dimensions: 48.75" x 17.75"
Space Between Lamps: 3.20"
Weight: -
Lamp Quantity: 5
Voltage: 120-277V AC
Frequency: 50/60 Hz
Total Watts: 180W
Single-lamp Watts: 36W
Total UV Output (Watts): 73W
Single-lamp UV Output (Watts): 14.6W
Total Radiant Intensity: 725 uW/cm2
Single-lamp Irradiance: 145 uW/cm2
Luminous Efficacy: -
Lamp Life: 8,000 Hours
Depreciation at Useful Lifetime: 10%
UV Band: UVC 254nm (200nm - 280nm)
Peak Wavelength: 280nm

Ratings/Approvals

NRTL Certified UL 595 Outdoor Marine Type (Saltwater)
NRTL Certified UL 1598A Marine Type
(5) 4` T8 UV Fluorescent Lamps
Germicide Applications
Risk Group 3 UV Product
EPA Reg. No 98409-1
EPA Est. No. 98409-TX-1

Color Temperature: -

Color Rendering Index: -

Lamp Type: UV T8 Fluorescent

Lamp Base: G13 (Medium Bi-Pin Fluorescent)

Replacement Lamp: -

Beam Angle: -

Lighting Configuration: Flood Pattern

Power Efficiency: -

Power Factor: -

Ballast Quantity: 2

Ballast Voltage: 120-277V AC, 50/60 Hz

Amps: 1.5A @ 120V, 0.75A @ 240V, 0.64A @ 277V

Operating Temp Range: -30°C to 85°C

Housing Material: 304 Stainless Steel

Hardware/Hub Material: -

Mounting: Flange Mount

Hub Quantity: 2

Wiring Hub Size: 1/2" or 3/4" Threaded

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.

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

This unit is Made In USA - Manufactured in Texas

The Larson Electronics IND-SS-48-5L-UVC UV Fluorescent Fixture provides UVC illumination in industrial facilities. This 180-watt unit features five, 4-foot T8 UV fluorescent lamps, housed in a 304 stainless steel housing. The luminary caters to flat surface mounting mounting and operates on 120-277V AC, 50/60 Hz.

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-SS-48-5L-UVC is a fluorescent-based UV lighting system for industrial facilities requiring effective sanitation or disinfection. Consisting of five, 4-foot T8 fluorescent UV lamps, the 180-watt unit offers 254nm UVC output with a wavelength range of 200nm to 280nm. Radiant intensity is 145 uW/cm2 per lamp. This UV fixture operates on 120-277V AC, 50/60 Hz (ballast voltage) and features a G13 medium bi-pin cap base. The lamp has an 8,000-hour useful lifespan.
The UV light`s housing is constructed of 304 stainless steel.
This UV fixture is a Risk Group 3 UV product. UV radiation from the unit can damage the skin and eyes without proper protection. Operators should avoid exposure to the eyes and skin when the unit is unshielded (for use in enclosed environments only). In the event of lamp breakage, it is recommended to ventilate the room for 30 minutes and clean the area with gloves (not a vacuum cleaner). Contents should be stored in a sealed plastic bag and brought to a waste/recycling facility.

Mounting Height	Irradiance/Second	Exposure Time Required*	Beam Length	Beam Width
6 in	4829.76 uW/cm2	6.21 seconds	4 ft	3 ft
12 in	2426.11 uW/cm2	13.6 seconds	4 ft	3 ft
18 in	1347.84 uW/cm2	24.48 seconds	4 ft	3 ft
2 ft	872.35 uW/cm2	43.33 seconds	4.77 ft	3.36 ft
5 ft	147.36 uW/cm2	4.07 minutes	11.92 ft	8.39 ft
10 ft	36.84 uW/cm2	17.64 minutes	23.84 ft	16.78 ft
12 ft	25.58 uW/cm2	27.36 minutes	28.6 ft	20.14 ft
15 ft	16.37 uW/cm2	42.75 minutes	35.75 ft	25.17 ft
18 ft	11.37 uW/cm2	61.56 minutes	42.9 ft	30.21 ft

20 ft	9.21 uW/cm2	76 minutes	47.67 ft	33.56 ft
22.5 ft	7.28 uW/cm2	96.19 minutes	53.63 ft	37.76 ft
25 ft	5.89 uW/cm2	118.75 minutes	60 ft	41.95 ft
28 ft	4.70 uW/cm2	148.96 minutes	66.74 ft	47 ft
30 ft	4.09 uW/cm2	171.01 minutes	71.51 ft	50.35 ft
32.5 ft	3.49 uW/cm2	200.69 minutes	77.46 ft	54.54 ft
35 ft	3.01 uW/cm2	232.76 minutes	83.42 ft	58.74 ft
40 ft	2.30 uW/cm2	304.01 minutes	95.34 ft	67.13 ft

*Exposure time is based off of total irradiance. The above calculations are based on 12mJ total exposure. This level of exposure deactivates most organisms.

Mounting/Wiring: The IND-SS-48-5L-UVC features a surface mounting system. Surface mounting brackets on the housing facilitate a low profile wall or ceiling mount, making it suitable for installations in tight spaces. Power connections to the UV unit can be completed via two accessible, threaded wiring hub (1/2" or 3/4").

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. The UV radiation is harmful to the eyes and skin, and that is why you should not be in the area while it is in operation. Please see user manual for additional safety information.

Applications: Germicidal, water purification, disinfection, food processing, air disinfection, pharmaceuticals, biotechnology and more.

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.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)

Q. Does this product kill COVID-19?

A. COVID-19 is the disease created from the SARS-CoV-2 coronavirus. Please see below link for effectiveness against viruses, including the 2019 SARS-CoV-2 coronavirus:
https://www.larsonelectronics.com/images/product/LightingFacts/266985.PDF

Q. Does this product kill he SARS-CoV-2 coronavirus?

A. Please see below link for effectiveness against viruses, including the 2019 SARS-CoV-2 coronavirus:
https://www.larsonelectronics.com/images/product/LightingFacts/266985.PDF

Q. Does this product generate ozone?

A. No. UV lights can be made as ozone-producing or non-ozone producing. Ozone producing lamps leaves radiation in the atmosphere and require a 20-30 minute time after lamps are turned off before the radiation levels dissipate to a safe level before you can re-enter the room/area. The products that Larson Electronics manufactures DO NOT use ozone-producing lamps. This means that the radiation stops the second the light turns off. Once the light is turned off, it is safe to return to the area being disinfected by the light. Please read manual for UV safety requirements.

Q. Is this product skin safe or eye safe?

A. No. UV radiation is not safe for the eyes or skin. Please read manual for UV safety requirements.

Q. Do I need to wear protective gear?

A. Yes. UV radiation is NOT safe for your skin or eyes. Please read manual for UV safety requirements.

Q. Is this unit safe to use in occupied areas?

A. No. This unit produces UV radiation. UV radiation is NOT safe for your skin or eyes. Please read manual for UV safety requirements.

Q. Does this product come with UV lamps

A. Yes. This product will ship with UV lamps. The required UV lamps are included with your purchase.

Q. What if obstacles are in the way of the UV light while it is disinfecting?

A. You will need to move objects around and disinfect again for another 30 minutes. If the cart does not have direct line of sight, it will not disinfect. This is a non-ozone UV generating product so it does not penetrate through solid surfaces and will not reflect and clean the underside of objects or behind objects. If you do not have direct line of sight from the light, you will need to move it around or move the obstacles to create proper exposure.

Q. What if I want to disinfect a larger area than the square footage that is listed in the specifications of this product?

A. You can move the product and cover other areas. Each time the unit is moved, the exposure time starts again.

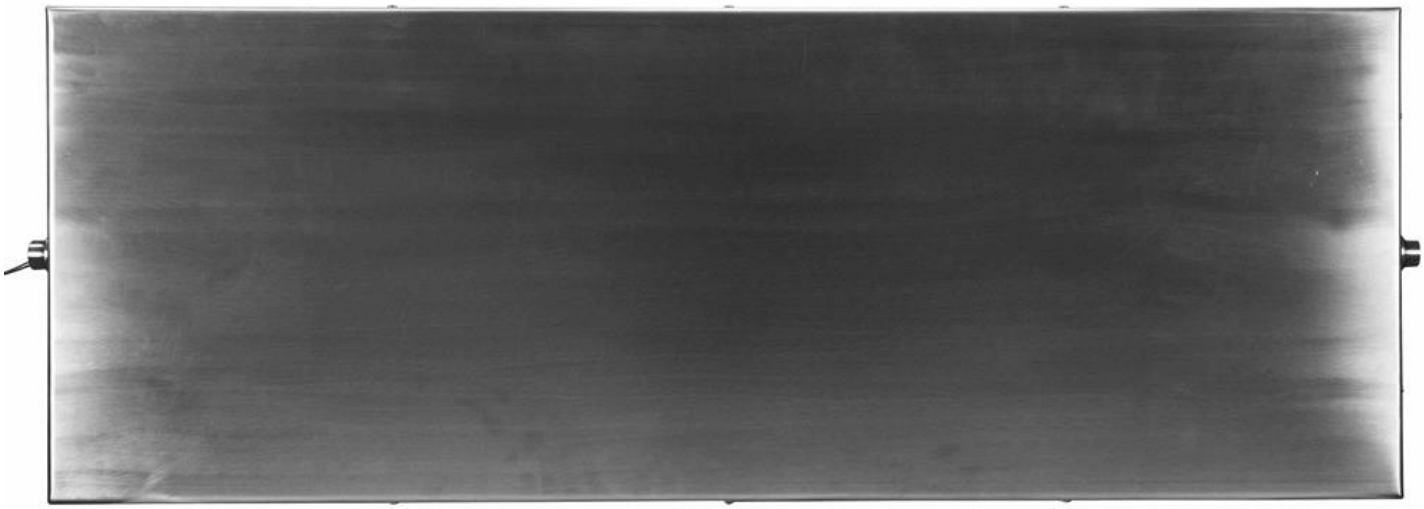
Q. How long does the fixture need to operate to kill viruses?

A. 30 minute exposure time is required for killing viruses









Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

IND-SS-48-5L-UVC

Product ID: 222319

Export Control Classification Number (ECCN): EAR99

Options:

IND-SS-48-5L-UVC-Hub Config

Example: IND-SS-48-5L-UVC-0.5IN

Hub Config	
1/2IN	-0.5IN
3/4IN	-0.75IN

Links (Click on the below items to view):

- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- 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
- Video1
- Video4
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map