

Project :	Date :
Cat. No. :	Type :
Notes :	Volts :

Features

The industrial and commercial NTPL-RD-60W/100W made of a heavy duty frame with guard grill, can be suspended or floor stand.

Standard anti UV AC power cord 106 inches and with a 10 inches female AC for daisy chain connection

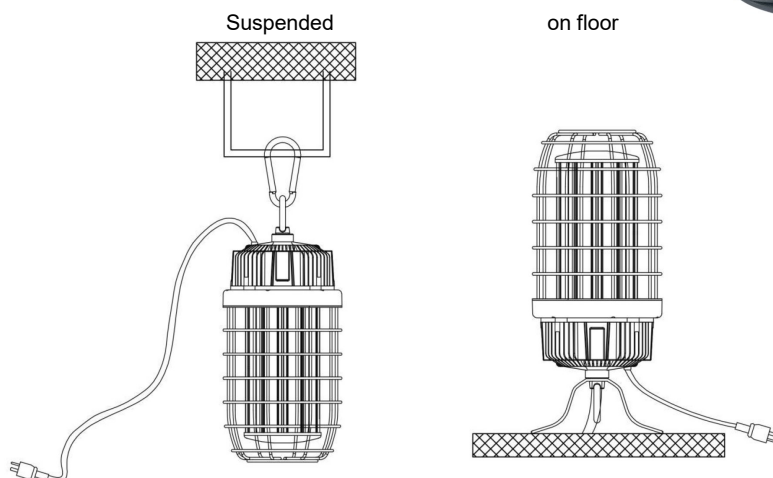
270nm wave length led projection 360 degrees

Can disinfect on surface, air and water

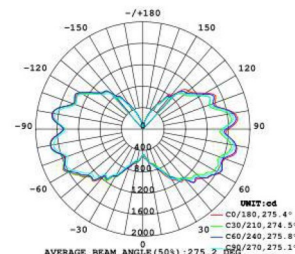
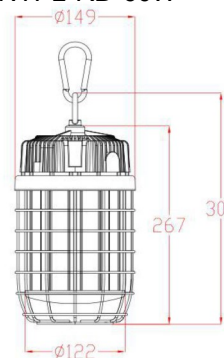
Suitable for installation in many areas such as Emergency medical center, day-care center, nursing homes, schools, bathroom, churches, gymnasium or meeting room etc..

60 watts for 60m² for 20 minutes
100 watts for 100m² for 25 minutes

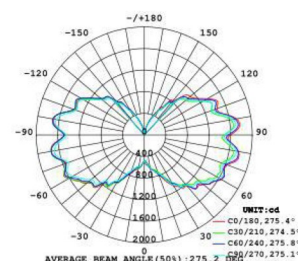
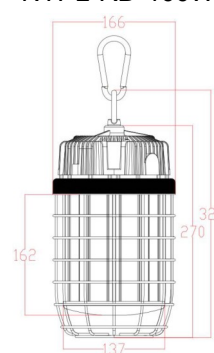
Installation



NTPL-RD-60W



NTPL-RD-100W



WARNING



1. When using an ultraviolet disinfection lamp, people, animals and plants must leave the site.
2. The eyes should not stare at the ultraviolet disinfection lamp. Ultraviolet light has certain damage to human skin and mucous membrane
3. Always wear protective glasses when operating UV disinfection lamp.
4. Acrylic listing contents: "do not enter during disinfection"

Table de commande / Spécification

Modèle	Wattage	Couleur	Dimension	Voltage
NTPL	RD	UVC		120VAC
	60 Watts 100 Watts		14.9 X 26.7cm (60W) 16.6 x 27. cm (100W)	



Natech Industrie

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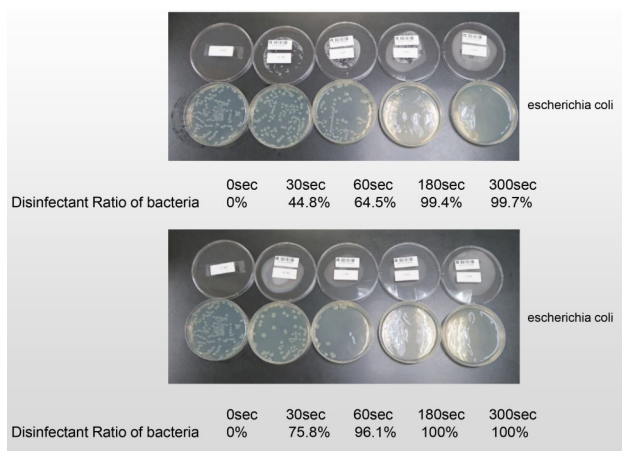
UVC FUNCTIONS

UV Luminaire emits ultraviolet radiation, which has disinfectant properties against various viruses. Within its emitted ultraviolet spectral bands, the 250-270 nm wavelengths demonstrated the strongest disinfectant properties against bacteria and viruses.

UV radiation luminance is swift, effective and safe against humans with protective gears. It efficiently and effectively destroys the molecular structure of DNA or RNA in bacteria and viruses, causing the death of existing cells and new cells, hence achieving the effects of sterilization and disinfection.

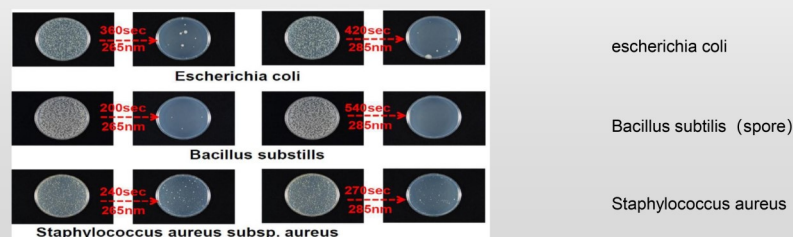
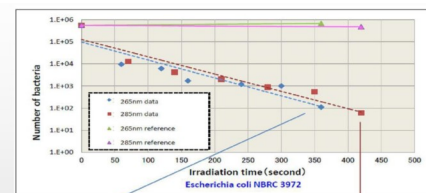
Ultraviolet radiation is effective in destroying most bacteria and viruses. Various degrees of UV radiations can sterilize and disinfect bacteria and viruses on various surfaces and fluids within a very short time.

Sterilization test (wavelength) UVCLED : 265-275nm Optimum germicidal wavelength



UVCLED Disinfectant Test (Wavelength vs Bacterial and Virus species)

265nm: 1.3mW/cm²
285nm: 2.4mW/cm²
Dosage = UVC radiation intensity x times
(mW/cm² x Sec = mJ/cm²)



Principle of Sterilization

UVC disinfection principle: Given microorganisms such as bacteria, viruses, and microorganism are very primitive, simple life-cycle cells with extremely short life span in seconds of time. They reproduce within fractions of second by budding or producing spores. Thus, when their inability to regenerate is being stopped by the UV radiations, the whole colony of bacteria or virus simply die away.

The UVC disinfection performance is designed to work on microbial UVC in various doses.

UVC LED Product Superiority

- Classification similar to Cool-white of visible light, as such does not heat up radiation surface as visible light. Generates narrow or close to mono-chromatic wavelengths. Absence of Infra-red wavelengths. Hardly raise the temperature of radiated surface.
- High efficacy, UVC delivers narrow spectral bands with high radiation intensity comparatively to the conventional Mercury UV lamps. Spectral Bands consist of some visible luminous spectra (that make it looks brighter) while the actual effective disinfectant wavelengths are less, hence, less efficient and radiate much thermal energy.
- Long life, Life span is about 10 x of the Traditional Mercury luminaires. The life span is not affected by the number of switch on and off.
- Instantly reach its peak radiation performance with maximum intensity at switch on. No delay or waiting time is needed to turn it on and off
- Cost effectiveness: High intensity, stable radiation, high efficacy to deliver high performance and efficiency
- Ecology and Environment Impacts: Electrical energy consumption is only 10% of Mercury UV lamps, hence saving 90% of energy.

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