

# Cold Cathode UV Lamp (UV-CCL)



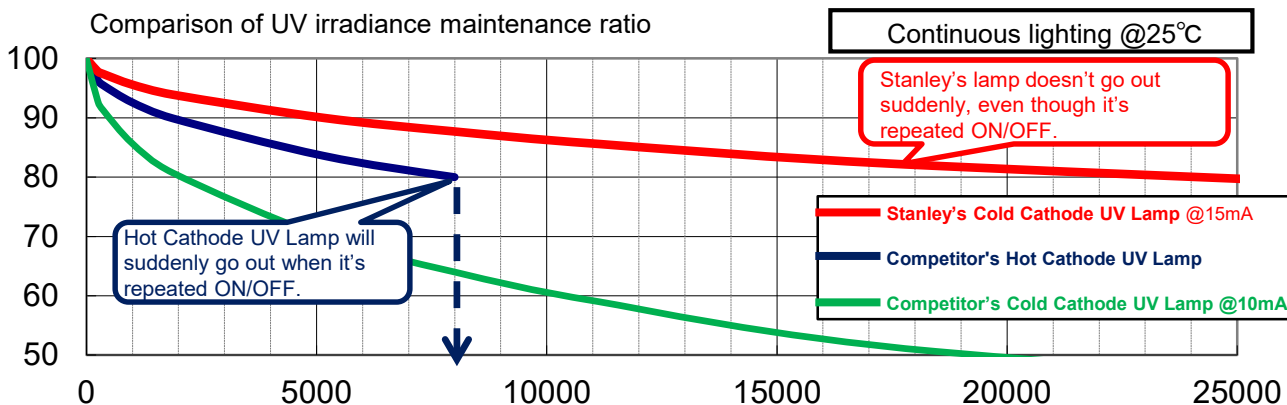
Achieved the longest lifetime in the industry. No filaments at electrodes make this product robust & insensitive to vibrations; further irradiance is dimmable and never unlit suddenly, and can be fine tuned to customer applications requirements. Compact size applicable even in limited space; makes it possible to add full-fledged sterilization function.

## Feature

- Achieved longest lifetime (30,000~50,000 Hours)
- Compact size applicable even in limited space.
- No filament at electrode make this product robust and insensitive to vibrations
- Lower power consumption, therefore it is an eco-friendly alternative to current general germicidal lamps.
- Available in various lamp types & wave lengths for different applications (deodorization/ disinfection)

## Applications

- Air conditioner
  - Air sterilization / deodorization
- Deodorization machine / Humidifier
  - Air sterilization / deodorization
- Washing machine
  - Water sterilization
- Toilet
  - Water / Surface sterilization



## Specification

Item	Product type					
	UC Series (Lamp only)					
Type						
Lamp length	70mm		150mm		240mm	
Wavelength	185+254nm	254nm	185+254nm	254nm	185+254nm	254nm
Part Name	UC/4E70/Z	UC/4F70/Z	UC/4E150/Z	UC/4F150/Z	UC/4E240/Z	UC/4F240/Z
Ozone Deodorization	○		○		○	
UV disinfection	○	○	○	○	○	○
Lamp current	10mA		15mA		15mA	
Rated Output	3mg/h		9mg/h		15.5mg/h	
	2.2μW/cm <sup>2</sup>	2.1μW/cm <sup>2</sup>	7μW/cm <sup>2</sup>	6.7μW/cm <sup>2</sup>	11.7μW/cm <sup>2</sup>	11.4μW/cm <sup>2</sup>
UV radiant flux	0.2W	0.2W	0.6W	0.6W	1.1W	1.1W
Lamp Power Consumption	1.6W	1.4W	3.3W	3.1W	5.4W	4.7W
Life time	30,000Hr	30,000Hr	30,000Hr	50,000Hr	30,000Hr	50,000Hr

\*UV radiant flux means total radiant flux at 254nm as index of UV light energy. Measurement distance is 1.0m.

\*The lifetime is based on a maintained ratio of 254nm.

This document was submitted in Oct .2018

## STANLEY ELECTRIC Co.,Ltd.

<https://www.stanley.co.jp/e/product/>

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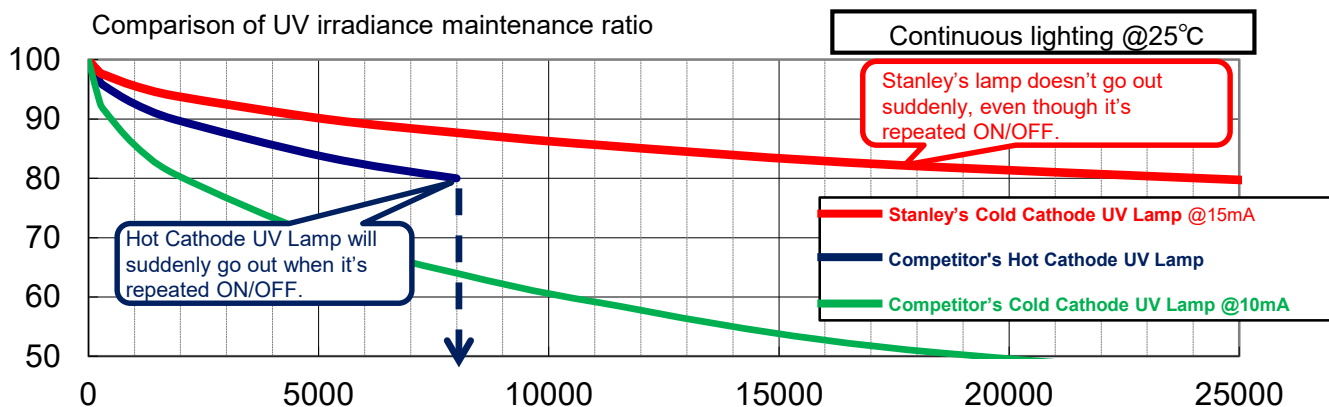
While keeping the longest lifetime, the size became much compact. Comparing UV straight type UV-CCL with this compact UV Lamp, UV irradiation in the same space is 3 times higher. It can be installed even in limited spaces and has achieved a full-fledged sterilization function.

## Feature

- Compact size can be installed even in limited space.
- UV irradiation is about 3 times higher than straight type UV-CCL.
- Achieved longest lifetime (30,000~50,000 Hours)
- Available in various lamp types & wavelengths for different applications (deodorization/disinfection)

## Applications

- Water purifier
  - Water sterilization
- Dish washing machine
  - Water / Surface sterilization
- Deodorization machine / Humidifier
  - Air sterilization / deodorization
- Toilet
  - Water / Surface sterilization



## Specification

Item	Product type					
	UC Series Compact Lamp (Lamp only)					
Type						
Lamp length	35mm		75mm		120mm	
Wavelength	185+254nm	254nm	185+254nm	254nm	185+254nm	254nm
Part Name	UC/4E35/Z	UC/4F35/Z	UC/4E75/Z	UC/4F75/Z	UC/4E120/Z	UC/4F120/Z
Ozone Deodorization	○		○		○	
UV disinfection	○	○	○	○	○	○
Lamp current	10mA		15mA		15mA	
Rated Output	(2.5mg/h)	-	(8.0mg/h)	-	(14.0mg/h)	-
UV radiant flux	2.0μW/cm <sup>2</sup>	2.0μW/cm <sup>2</sup>	6.8μW/cm <sup>2</sup>	6.5μW/cm <sup>2</sup>	11.4μW/cm <sup>2</sup>	11.1μW/cm <sup>2</sup>
Lamp Power Consumption	1.6W	1.4W	3.3W	3.1W	5.4W	4.7W
Life time	30,000Hr	30,000Hr	30,000Hr	50,000Hr	30,000Hr	50,000Hr

\*UV radiant flux means total radiant flux at 254nm as index of UV light energy. Measurement distance is 1.0m.

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