

# CANDEX®

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## 2-COLOR MODES SELECTABLE



Disinfecting  
Violet-Blue

Ambient  
Warm White



## Antibacterial LED A19 - M850306

### Recommended Use:

After 3-5 hours, ROS are produced around bacterial cell walls after a chemical reaction between endogenous porphyrins and the violet blue light.

Turn on violet-blue light minimum 6 hours per day to effectively inactivate microbes in the air or on the surface (decontamination) 8-9 inches away from the light source or 2 consecutive day of 3 hours of operations.

### HOW IT WORKS?

Research has proven 400nm-420nm wavelength of visible light destroy bacteria, mold, and fungi cells. This light is called violet-blue light (VBL). Candex LED Technology use VBL to target specific molecules found in microbes. These microorganisms will absorb VBL leading to the production of cytotoxic reactive oxygen species (ROS) and causing cell wall damage and death.

The endogenous photosensitizing chromospheres (photosensitizers), including porphyrins, flavins, and NADH, were identified in microbial cells. Studies also provided evidence that VBL inactivation of microbes

was attributed to ROS-induced cell membrane damage, inactivation of virulence factors, DNA-oxidation, genetic changes, etc.

Endogenous porphyrins, present in bacterial cell walls, after absorbing VBL at 400 – 420nm wavelength, lead to highly cytotoxic ROS production that kills bacteria.

Testing has shown over 99% bacteria reduction in controlled laboratory for hard surfaces. Results may vary depending on amount of light reaching intended surfaces and the length of exposure time.

NON - UV

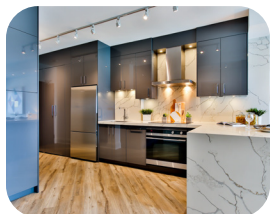


# ANTIBACTERIAL LED A19

## Disinfect & Illuminate

Introducing a new form of antibacterial technology with the ability to eliminate bacteria in your home, as well as providing general purpose light – Candex Antibacterial LED Series.

This LED is an innovative bulb with simple functionality – change light modes by **turning bulb on-off-on**. With a longer pause, the bulb will reset and turn on to general-purpose ambient light.. Candex Antibacterial will destroy 99% of harmful bacteria in air and on surfaces. Plus, it is safe for you, your family, and your pets.



Kitchen



Bathroom



Safe for Humans



Safe for Babies



Safe for Pets

MODEL	LIGHTING TYPE	SHAPE	WATTAGE	VOLTAGE	BRIGHTNESS	BASE
M850306	LED	A19	9W	120V, 60Hz	800Lm	E26, Medium
CRI	CCT	BEAM	DIMMABLE	LOCATION RATING	CERTIFICATION	LIFESPAN
≥80	3000K, Violet Blue	230°	No	Damp	UL Listed	25,000 Hours

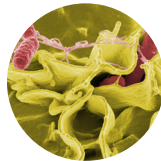


## HELP PREVENT



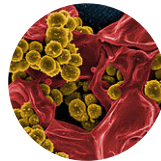
**E. coli**

Causes 265,000 illnesses per year in the US.



**Salmonella**

Causes 26,500 hospitalizations/420 deaths in the US every year.



**MRSA**

Causes 120,000 cases/20,000 deaths in the US in 2017.



**Staphylococcus Aureus**

Causes more than 119,000 people to suffer in the US in 2017.

### Antibacterial LED A19 SAFETY FEATURES:

- UV-Free
- High quality antimicrobial LEDs
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- Continuous use at home without worry

Unlike UV lights, VBL is out of ultraviolet (UV) spectrum and therefore harmless continuous antimicrobial action. It has scientifically been proven to be safe from both humans and pets.

Candex Antibacterial Lights have passed the IEC 62471 tests performed by UL/ETL labs.

The IEC 62471 Standard is intended to address potential photobiological safety concerns from LEDs by providing a method for categorizing the potential risk to the eyes and skin.

Protect people from injuries and blindness caused by exposure to UV, visible, and infrared/thermal electromagnetic radiation.