



The Air Straighten Up

Leave it on
It protects you from harmful germs in the air

Corona Lamp | Clean Edge Product Catalogue

What is CLEAN EDGE?

Corona Lamp | CLEAN EDGE

Visible Spectrum Germicidal Lights.

Corona Lamp is a fusion type of lighting that sterilizes harmful germs on the surface of stuff in the area. We combined everyday-use lighting (color temperature - 2700k~6500k) with an additional light that has sterilization feature.

Now, turn Corona Lamp(Clean Edge) on and be free from the worldwide spreaded Coronavirus and many other harmful germs that cause respiratory symptoms.



CLEAN EDGE
Visible Spectrum
Germicidal Lights

What is CLEAN EDGE?

Corona Lamp | CLEAN EDGE is NOT ordinary lighting.



Corona Lamp (Clean Edge) is a **new-cutting-edge-technology applied product** that combines virus disinfection technology of many laser medical devices with everyday lighting so it gives you an easy and uncomplicated way of controlling the spread of viruses and germs in the air.

Unlike the portable UV sterilizer that has risk of breakdown and requires constant maintenance,

Corona Lamp (Clean Edge) needs no maintenance cost or other specific way of care.


Even better is that the product **is reasonably priced in spite of ground breaking technology applied** so we aim for the future that everyone enjoys benefit of **public sterilization.**

What is CLEAN EDGE?

Corona Lamp | CLEAN EDGE

Kills germs only by rays.

한국경제 “LED rays kill Coronavirus 99.9% in 30 seconds” Korea Economy

“LED 빛으로 30초 만에 코로나바이러스
99.9% 살균”  본문듣기 · 설정

기사입력 2020.04.02. 오후 5:38
최종수정 2020.04.03. 오전 12:42



A researcher examines LED chip that is under development.

The medical test related to germicidal lights shows that the closer and the longer exposure to the light source means the better sterilization, Korea University Medical College reports.

“UV LED kills not only germs but also Coronavirus”, an official says.

The sterilization effect of Clean Edge is from the specific wavelength of ultraviolet rays.

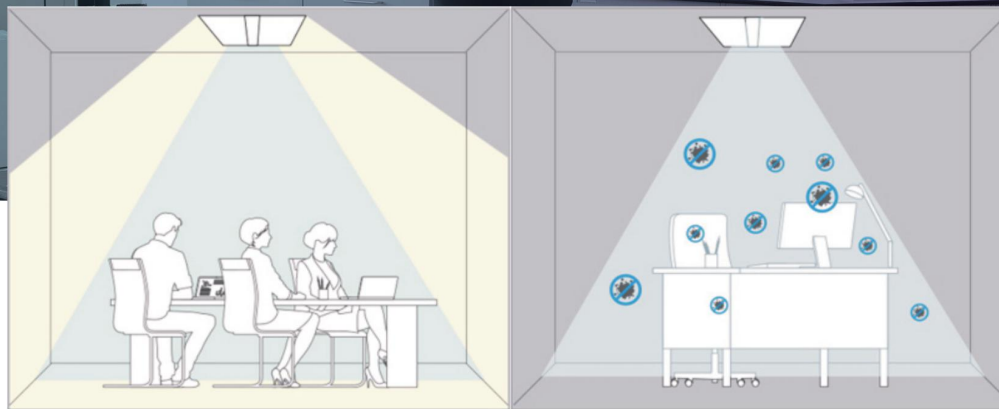
Harmless to humans and kills germs only by rays.

This technology that used to keep NASA space station in aseptic condition was not to be able to commercialize because the lifespan of LED was short.

However, this technology (Clean Edge) came out to the market for **Maltani succeeded to prolong the lifespan to 50,000 hours.**

What is CLEAN EDGE?

Corona Lamp | CLEAN EDGE is NOT a seasonal item.



Kills germs
~99.9%

Kills
Coronavirus
- Tested

Safety
Evaluation
IEC 62471
Top Grade

New viruses appear every year and put mankind in danger. It gets faster in its emergence cycle and more complicated to cure. The new viruses that appeared for the last 40 years are **more than 20 different kinds** so it is almost **impossible for new viruses to stop appearing.**

Corona Lamp (Clean Edge) is the solution for the times like nowadays that everyone is scared to stay in places like **public spaces** that is difficult to sanitize every second.

The 405nm Corona Lamp rays kill and control germs and viruses on the surfaces and in the air of such public spaces with ease.

CLEAN EDGE

How It Works



Safety Evaluation IEC 62471 Top Grade

IEC (International Electrotechnical Commission) Certified

Acquired the Top Grade "EXEMPT"

Safety Standard 62471 evaluates affect to eyes and skin

Photobiologically Safe

Corona Lamp | CLEAN EDGE

■ Sterilization Methods by Wavelength Comparison

Features	Common Germicidal Lighting			CLEAN EDGE
	UV-C (100~280nm)	UV-B (280~315nm)	UV-A (315~400nm)	405nm
Porphyrin Reaction Decomposition	X	X	X	O
Direct Sterilization (DNA Damage)	O	△	X	X
Affect to Human Body	Harmful (it can cause Skin Cancer, Cataract etc.)			Nothing Harmful

Well-known germicidal lights with UV-C, UV-B, UV-A is not suitable for daily living spaces because it has harmful wavelength to human body that can cause damage to human tissues. **Corona Lamp (Clean Edge)** that adopted the **405nm long wavelength light source**, which is not only safe to human body but also controls and kills viruses floating in the air, proved 99.9% sterilization to harmful germs such as E-Coli, Staphylococcus aureus, pneumococcus, MRSA and others.

<Photobiological Safety Test IEC62471>

Lighting affect to human body (eyes, skin) Test Result - Acquired "EXEMPT"(Top Grade)

<Sterilization Test KCL (Korea Conformity Laboratories)>

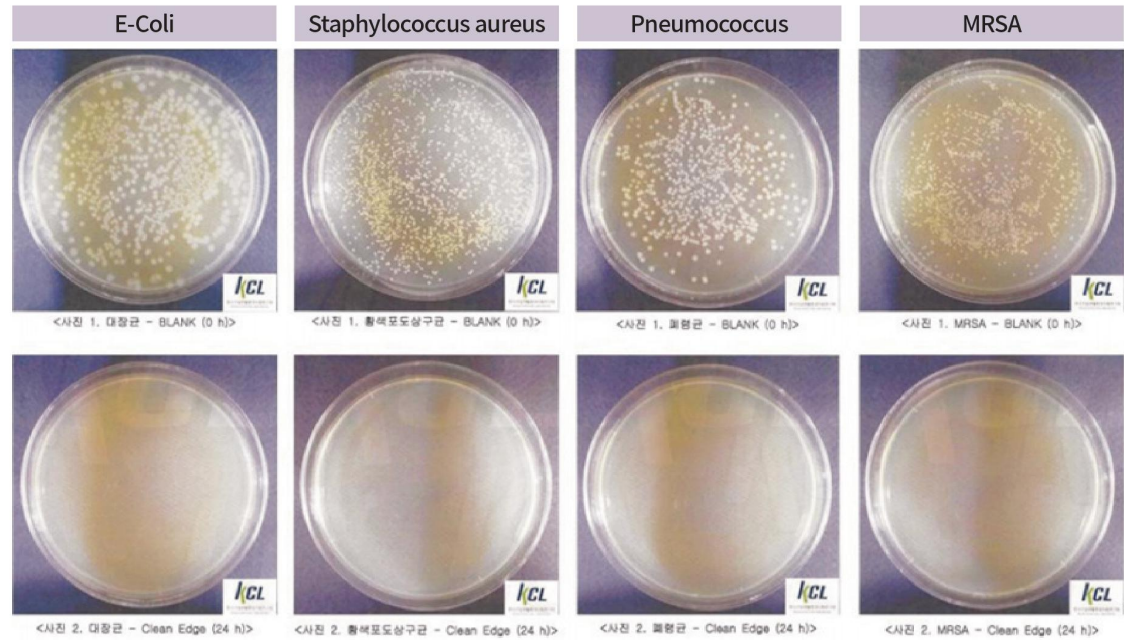
Sterilization 20% ~ Max 99.9%

CLEAN EDGE How It Works



Corona Lamp | CLEAN EDGE

■ KCL(KOREA CONFORMITY LABORATORIES) Test Result



9 – 24 hours of test shows that **Corona Lamp kills germs 99.9%** of E-Coli, Staphylococcus aureus, pneumococcus, MRSA and others.

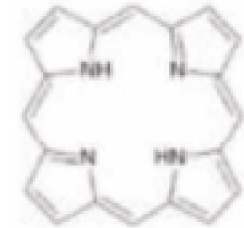
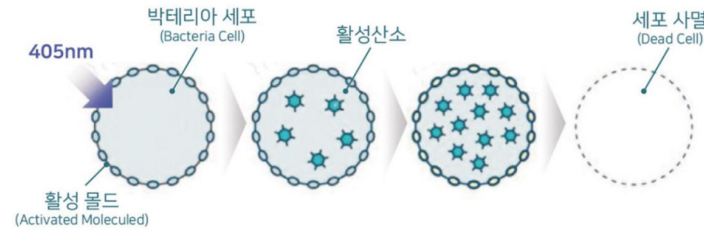
CLEAN EDGE How It Works



Corona Lamp | CLEAN EDGE

CLEAN EDGE – Visible Spectrum Sterilization Mechanism

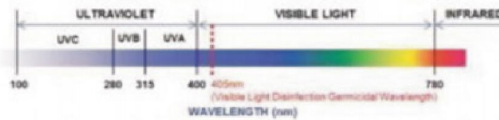
A wavelength in the visible spectrum kills bacteria in the way the **405nm** wavelength reacts with **porphyrin** within bacterial cell and **generates reactive oxygen**. Corona Lamp (Clean Edge) kills 99.9% of germs with **405nm** wavelength of which emission remarkably amplified.



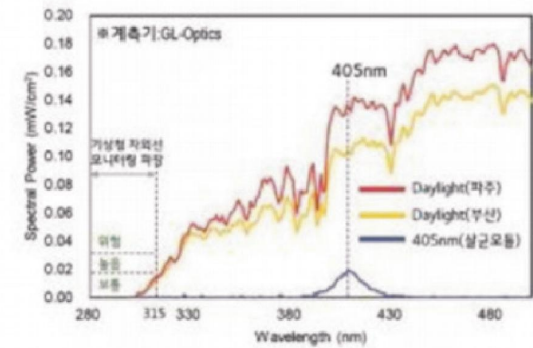
▲ **Porphyrin Decomposition Test** (405nm wavelength) demonstrates that 405nm wavelength kills cells with reacting with Porphyrin within bacteria and generating reactive oxygen.

▲ **Porphyrin** :
Reactive substance to 405nm wavelength

CLEAN EDGE – Visible Spectrum Non-Contact Sterilization



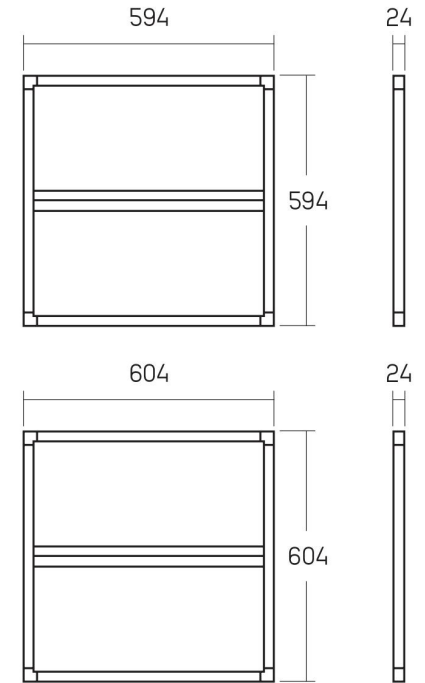
Spectrum Comparison (Daylight vs Sterilization Module)



CLEAN EDGE Product Specification



SIZE (mm)
T-BAR



Product Spec



Model NO.	Power (W)	Luminous Flux (lm)	CCT (K)	CRI (Ra)	Size (mm)	Weight (kg)	Input Voltage (VAC/Hz)
S-RLP2916-50-Coo1	29.5W+15W(2ch / 1ch)	≤ 4,500	5,000	≤ 80	L594 × W594 × H24	3.5	AC 220-230 50/60
S-RLP29161-50-Coo2	29.5W+15W(2ch / 1ch)	≤ 4,500	5,000	≤ 80	L604 × W604 × H24	3.5	AC 220-230 50/60

CLEAN EDGE Product Specification



Corona Lamp (Clean Edge) Beam Angle



* Corona Lamp (Clean Edge) Installation Sample

Corona Lamp | CLEAN EDGE BEAM ANGLE

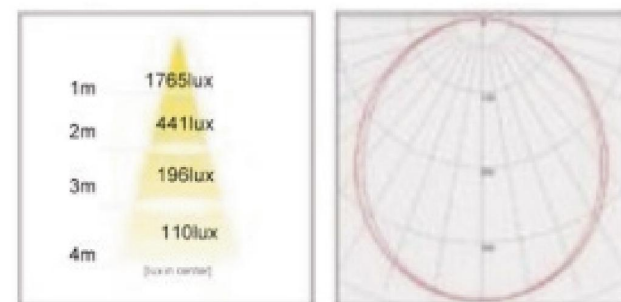
Corona Lamp (Clean Edge) has an **additional lighting - Beam Angle** (germicidal light) that has **three different angle options (30° / 60° / 90°)** according to the use of the room.

Such as night-time or holidays that no one stays in the room, **you can turn Beam Angle on so the room can be sterilized** with two options : **continuous sterilization / temporary sterilization.**

LIGHT DISTRIBUTION

S-RLP2916-50-Coo1

Clean Edge 29.5W+15W 5,000K



1m	1765lux
2m	441lux
3m	196lux
4m	110lux (lux in center)

CLEAN EDGE

Corona Lamp | CLEAN EDGE is Keep Safe Wherever You Are.



It is suitable for the crowded places like hospitals, airports, schools, kindergartens, buildings, waiting rooms, offices, houses and so on with the similar purposes.

CLEAN EDGE Development Production Company



Maltani Co., Ltd.

Specialized in Lighting production with eco friendly tech, design

With pioneering design competitiveness edge, the company was acknowledged in the global market with their constant effort of developing new product and quality control and it further accelerates R&D process for LED development.

1984~1999 Quality management

Establishment / Korean Industrial Standards Acquisition / Export and Import Permit / UL Mark

2000~2007 Design management

Design Awards / Sustainable Design Environment / Nominated as Best Partner By Construction Firms

2008~2019 Strategic management of R&D

Design Lab / Built LED Manufacture Line / MOU with SAMSUNG LED





Thank You