THE SAFETY	SOUDCELLC

Job Name:	
Туре:	
Part #:	

120-277 VAC, Nanometer Technology Antiseptic/ Anti-Virus, Air-Sanitizing/Filtering 2 x 2 LED Panel

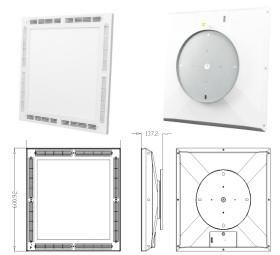
#### **Product Features**

- Cleans and Freshens the air
- Automatically killing bacteria and viruses that are airborne
- •
- Reduces floating particles in air Eliminates the TVOC concentration in the air
- Saves installation space
- Efficacy 110-130 Im/W •
- Input Voltage: Universal 120-277 VAC •
- High efficiency optical design Standard 2 x 2 lighting applications
- Ambient operating temperature: -20° C to 50° C
- THD: <20%
- Power Factor > 0.95 .
- LED chip lifetime: L70 > 100,000 hours @ 25° C Suitable for schools, health facilities, gyms transportation facilities, manufacturing, offices, retail/wholesale stores, dining areas, etc.

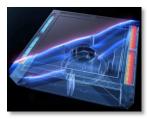
#### **Working Principle**

- The filters and surface of Polycarbonate cover are coated with Nanometer Silver and Titanium Dioxide. When bacteria or viruses in air touch the surface of the Nanometer coated filters and cover, they will subse-quently be killed.
- Silver ion reacts with hydrogen sulfide ion in bacteria and inhibits its reproduction.
- Contact produces auperoxide free radicals an breaks down the bacteria.
- The Nanometer surface has an electric charge that pulls the membranes of bacteria, causing them to rupture and eradication.
- The fixture is installed with a centrifugal industri fan which is powerful and silent. Air is filtered through the intake and also filtered through the outlet. The intake air will be purified by getting rid of floating particles and automatically kills bacteria, virus and neutralizes VOCs and other impurities.

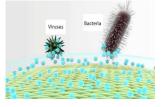




Fixture with centrifugal industrial fan



Nanometer silver killing the bacteria and virus



New nanometer material filter



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## **Parameters**

Power: Input Voltage: Dimming: Power Factor: Lumens: Lumens Efficiency: CCT: CRI: CADR: Application Area: Noise: Certification:

50W (35W LED, 15W FAN) Univ: 120-277 VAC 0-10 Volt ≥.95 4,000 lm ≥10 lm/W 4000K/5000K ≥82 202 ft³/min. 100-165 ft² <40dB UL (Pending), EPA, SGS and FDA (Pending) 50,000 Hrs. -20 ~ 50 °C

23.65" x 23.65" x 5.40"

16.8 lb









Filters effectively work for 2,160 hours. An indicator light will start flickering when that time threshold is reached. After the filters are replaced, a simple pin is used to reset the internal timer.

# Certifications

Temperature: Size:

Operating Life:

Working

Net Weight:

a. Test and Verification for Anti-viral Effect of New Nanometer Compound Material

Test and Verification for Anti-viral Effect of New Nanometer Compound Material

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#### b. Test and Verification for Antiseptic Effect of New Nanometer Compound Material

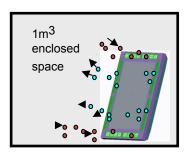
Classific ation	Туре	Effect	
	Superbug	Antiseptic rate after 24 hours>99%	
	Tubercle	Inhabiting rate of tubercle>80.8%	
	Pseudomonas aeruginosa	Antiseptic rate after 24 hours>99%	
	Staphylococcus	Antiseptic rate after 24 hours>99%	
Bacteria	Colibacillosis	Antiseptic rate after 24 hours>99%	
	White Candida	Antiseptic rate after 10 minutes>99%	
	Pneumophilia	Antiseptic rate after 24 hours>99%	
	Salmonella	Antiseptic rate after 30 minutes>99%	

#### c. Test and Verification for Organic Gas Decomposition

Classific ation	Туре	Effect	
Microbe	5 common microbes	No microbe growing after 28-day culture	
Environ	Formaldehyde	Antiseptic rate after 24 hours>99%	
ment	TVOC	Antiseptic rate after 24 hours>96.4%	
	ROHS	No Pb, Hg, Cd, Cr, PBB, PBDE	

#### d. Antiseptic Test for Air-circulating Panel Light

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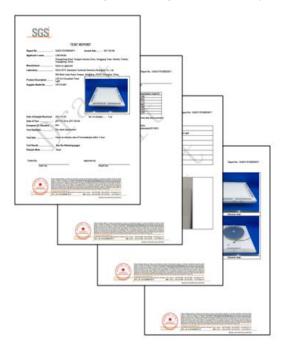
Specification referred to GB21551 (test space is revised as large as 1  $\ensuremath{m^{\mbox{\tiny s}}}\xspace)$ 

- Inject Staphylococcus aureus by gas in 1m<sup>3</sup> space
- Calculate value of natural colony ratio / formaldehyde concentration ratio before and after placing this fixture into the enclosed space
- As a clean antibacterial effect

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e. Air-circulating Panel Light Formaldehyde Decompsition Test



Formaldehyde	Removal rate
concentration(mg/m3)	
1.18	/
0.932	21.02%
0.715	39.41%
0.493	58.22%
0.396	66.44%
0.322	72.71%
0.276	76.61%
	concentration(mg/m3) 1.18 0.932 0.715 0.493 0.396 0.322

### Pass the SGS lab test

- Conduct the experiment according to national standard GB18801-2015
  Use 30-cubic meters experimental chamber
  Decomposition and removal rate of formaldehyde reaches 76.61% in an hour