

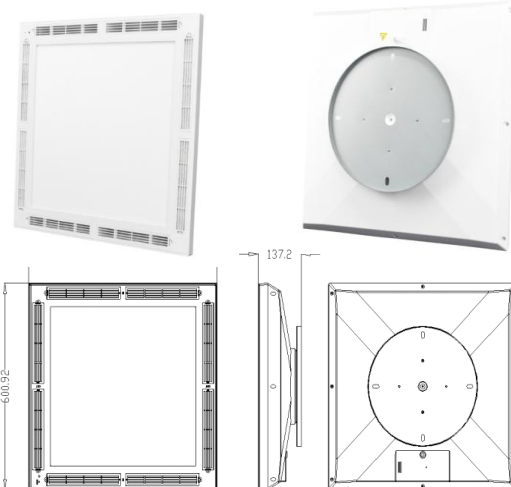
**120-277 VAC, Nanometer Technology Antiseptic/
Anti-Virus, Air-Sanitizing/Filtering 2 x 2 LED Panel**

Product Features

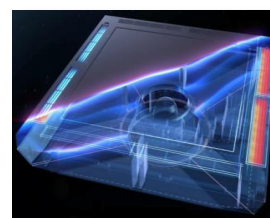
- Cleans and Freshens the air
- Automatically killing bacteria and viruses that are airborne
- Reduces floating particles in air
- Eliminates the TVOC concentration in the air
- Saves installation space
- Efficacy 110-130 lm/W
- Input Voltage: Universal 120-277 VAC
- High efficiency optical design
- 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

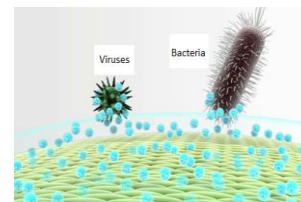
- The filters and surface of Polycarbonate cover are coated with Nanometer Silver and Titanium Dioxide. When bacteria or viruses in air touch the surface of the Nanometer coated filters and cover, they will subse-quently be killed.
- Silver ion reacts with hydrogen sulfide ion in bacteria and inhibits 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.



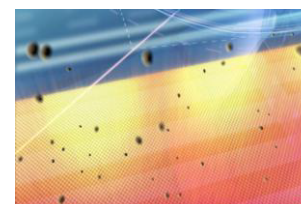
Fixture with centrifugal industrial fan



Nanometer silver killing the bacteria and virus



New nanometer material filter



Parameters

Power: 50W (35W LED, 15W FAN)
Input Voltage: Univ: 120-277 VAC
Dimming: 0-10 Volt
Power Factor: $\geq .95$
Lumens: 4,000 lm
Lumens Efficiency: ≥ 10 lm/W
CCT: 4000K/5000K
CRI: ≥ 82
CADR: 202 ft³/min.
Application Area: 100-165 ft²
Noise: <40dB
Certification: UL (Pending), EPA, SGS and FDA (Pending)
Operating Life: 50,000 Hrs.
Working Temperature: -20 ~ 50°C
Size: 23.65" x 23.65" x 5.40"
Net Weight: 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

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

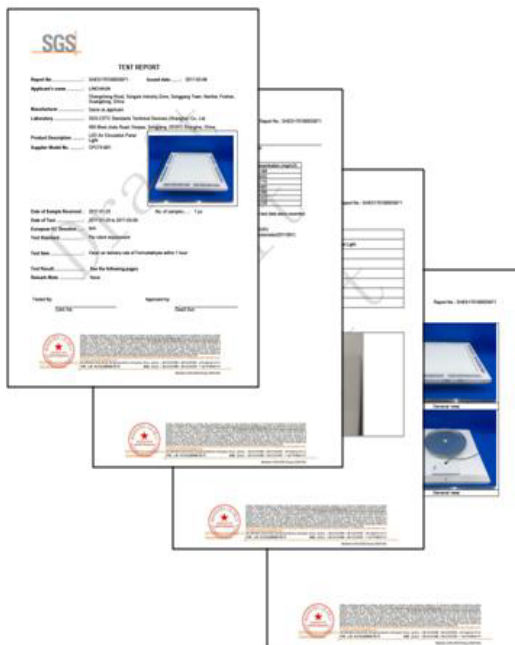
Job Name: _____

Type: _____

Part #: _____

Notes: _____

e. Air-circulating Panel Light Formaldehyde Decomposition Test



Test time (min)	Formaldehyde concentration(mg/m3)	Removal rate
0	1.18	/
10	0.932	21.02%
20	0.715	39.41%
30	0.493	58.22%
40	0.396	66.44%
50	0.322	72.71%
60	0.276	76.61%

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**