

"Exceeding Rational Expectations Every Day"

Introducing a Newly Designed Air-Circulating LED Panel Light with Antiseptic and Anti-Virus Nanometer Material

Patriot LED provides LED technologies to hospitals, major retailers, educational institutions, and large manufacturing concerns. Our expertise today is being applied to the implementation of cost-effective solutions to the COVID-19 epidemic and identifying sound technical and financial practices.



Product Features



- Quiet Recirculation and Cleaning of Air
- Automatically Kills Bacterial and Viruses
- Reduces Floating Particulates
- Eliminates TOVC Concentrations
- 2x2 Ambient Lighting Application
- Up To 130LM/W
- Input Voltage: 120V
- High-Tech Optical Design
- Widely Used For
- Ambient Operating Temperature: -20°c To 50°c
- THD:<20%







How It Works



Nano-Composite Filter

One of the emerging topics today is nanotechnology and nanoparticles (those less than 100 nanometers) to stop the novel COVID-19 virus.



Emergence has successfully integrated an environmentally friendly nano composite material providing our customers with a multipurpose LED light fixture for different types of applications/areas of use.



Filter Operation Overview



removal, antivirus filtration and decomposing organic gases.

Air Intake Vent

Function of Air Intake Filter





f. Antiseptic Test for Panel Light



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

Туре	Effect	
H1N1	99.99% of virus is eliminated after 20 minutes	
Enterovirus	99.99% of virus is eliminated after 20 minutes	
Respiratory mixed virus	Inhibiting ability reaches 90.0%	













Reports







Specification Reference GB21551

(Test space is revised as large as 1 m³) Infuse gaseous staphylococcus into one-cubic meter space and calculate ratio of natural colony number/ratio of formaldehyde concentration before and after being placed into lamps and electric lights from which its antiseptic effect can be seen.

Staphylococcus: Antiseptic rate after 24 hours>99%

Air- Circulating LED Panel Light SGS Formaldehyde Decomposition Test



Test time(min)	Formaldehyde concentration	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 meter chamber

Decomposition and removal rate of formaldehyde reaches 76.61% in an hour.

SGS Antiseptic Test for LED Panel Light





Shiny Surface (expanded panel) Antiseptic Test

Pass the SGS lab test according to national standard QB/T2591-2003. Removal rate of staphylococcus reaches 99%