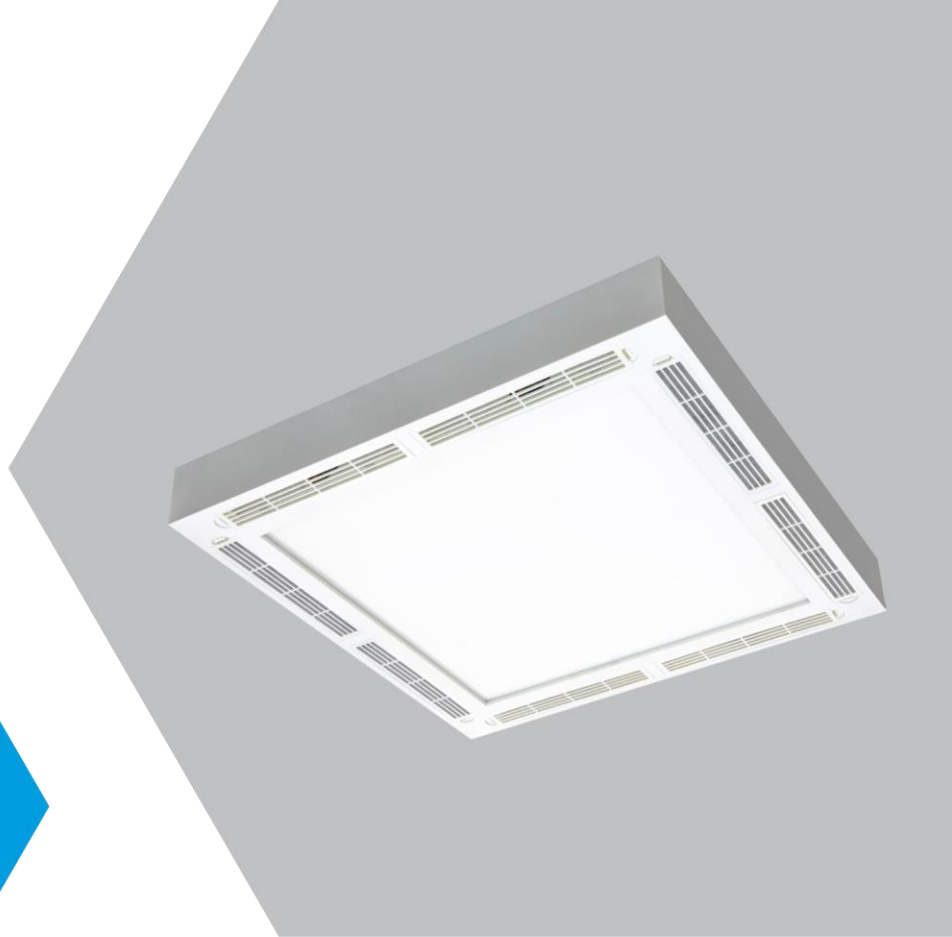


TITANCARE® SQUARE SM

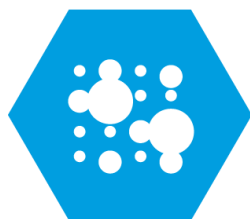
ANTI-BACTERIAL/
VIRAL LUMINAIRE

TitanCare® luminaires take advantage of our proprietary cutting edge antimicrobial and patented non-toxic Nano technology which has been approved and tested by worldwide renowned authorities such as FDA, Ofi, SGS, MICROBAC and by some famous hospitals and government institutions worldwide.



Product Description

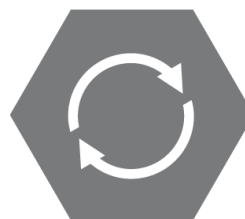
TitanCare® Square SM is a highly functional LED panel light with anti-pathogenic and air purifying functions, achieved through self-circulating fans, filters and antimicrobial TitanCare TT® Nano coating.



Antimicrobial



Air purification



Selfcleaning

Application Areas

The lamp is perfect suitable for general lighting applications in Clean Rooms, Doctor Ordinations, Educational Institutions, Hospitals, Laboratories, Nursing Homes, Offices, Rehabilitation Centers, Merchandising and Retail Facilities.

TITANCARE® SQUARE SM

ANTI-BACTERIAL/ VIRAL LUMINAIRE



Features & Benefits

- Built-in self-circulating fans continuously refreshing the air in the room
- Protects the indoor space from common pathogenic bacteria and viruses
- Effectively reduces TVOCs in the air, such as formaldehyde
- High optical grade diffuser providing good efficiency and impact resistance
- Provides smooth lighting without LED “dots”
- Superior performance and broad uniform light distribution
- No flash frequency
- Easy to install
- Over 1.500 water transfer printing designs available
- Using newest PM 2.5 filter technology with TitanCare TT® coating
- Patented light fixture
- Awarded with “INTERNATIONAL INVENTION OF THE YEAR AWARD” at the 2017 British invention show

TitanCare® Material Information

TitanCare® Square SM takes benefit of the worldwide patented TitanCare® TT Nano technology which is based on Titanium dioxide and Nano silver. The material has highly functionality under visible light and even without light. The material has efficiency against gram- and gram+ Germs incl. MRSA and MRGN up to 99,999% proven by worldwide renowned test laboratories and works against almost all bacteria's and viruses.

TitanCare® TT Anti-Bacterial / Anti-Viral / Fungus / TVOC / Formaldehyde results			
Enterovirus	>99,99%	Staphylococcus aureus	>99,99%
H1N1	>99,99%	Legionella pneumophila	>99,92%
Escherichia coli	>99,999%	Proteus mirabilis	>99,99%
Salmonella enterica	>99,99%	Formaldehyde	>99,9%
Aspergillus Niger ATCC 9642/ Penicillium Pinophilum ATCC 11797/Chaetomium ATCC 6205/ Gliocladium ATCC 9645/ Aureobasidium ATCC 15233	Grade 0	TVOC Reduction incl. Benzene, Toluene, Ethylene Benzene, Xylene, Carbon Dichloromethane; 1,2 & 1,4 Dichlorobenzene, Styrene, Tetrachloroethylene, Trichlorethylene	96,4% after 24 hr

The interior design of this luminaire uses UV LEDs (Ultra Violet Light Emitting Diodes) of the classification UVA with 315-400nm and a total power of 0.72W to optimize the anti-pathogenic mode of operation. Emits ultraviolet radiation during operation inside the luminaire but doesn't emit this UV light outside the luminaire. Do not directly look into the UV light during service operation of the luminaire. This can be harmful to human body especially to eyes and skin, even for a brief period because due to the intense of UV light. If viewing of the UV light for service purposes is necessary, please use UV filtered glasses to avoid damage by the UV light. The lamp may only be opened by authorized personnel when the luminaire is powered off.

TITANCARE® SQUARE SM

ANTI-BACTERIAL/
VIRAL LUMINAIRE



Technical Specifications

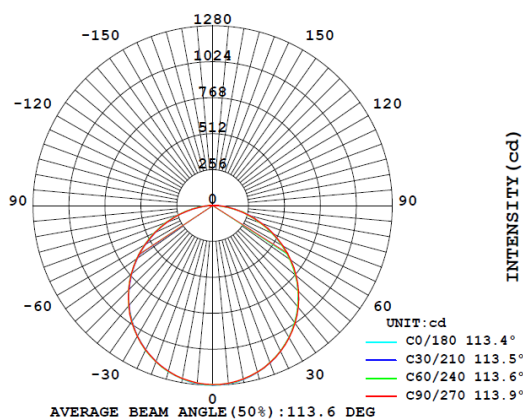
Product Code	TC-SSM/HL/RG-xxx
Input Voltage [VAC]	90-305
Input Power [W]*	41
Input Frequency [Hz]	50/60
Power Factor	> 0.9
CCT [K]**	3000 / 4000 / 5000
Efficiency of LED chip [lm/W] *	120 / 125 / 135
Efficiency of LED panel with driver [lm/W] *	100 / 105 / 115
Efficiency of complete fixture [lm/W] *	80 / 85 / 95
CRI	80
Life [L80] [h]	50000
IP Rating	IP 20
Insulation Class	Class II
Operating temperature [°C]	0-40 °C
Certifications for Europe, USA, Asia	CE / UL / CCC
Driver	Meanwell
Weight [kg]	7
Dimensions L/B/H [mm]	595 / 595 / 82

* The variation of lumen output and power consumption is +/- 10% based on the technology

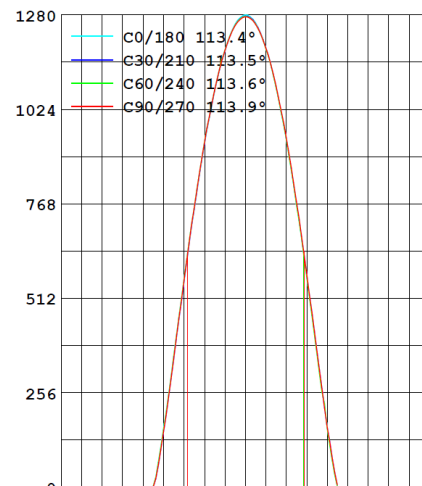
** Other CCT and efficiencies values on request

Photometric Data 4000K

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION

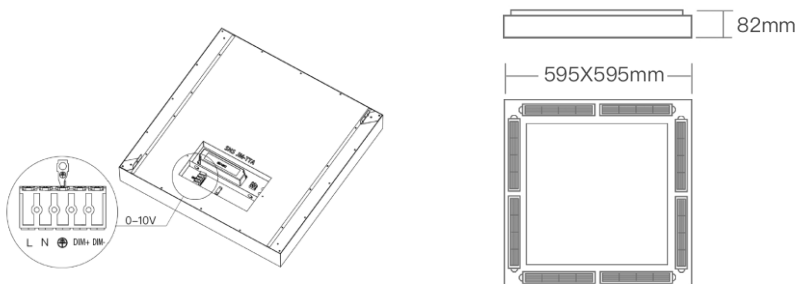


TITANCARE[®] SQUARE SM

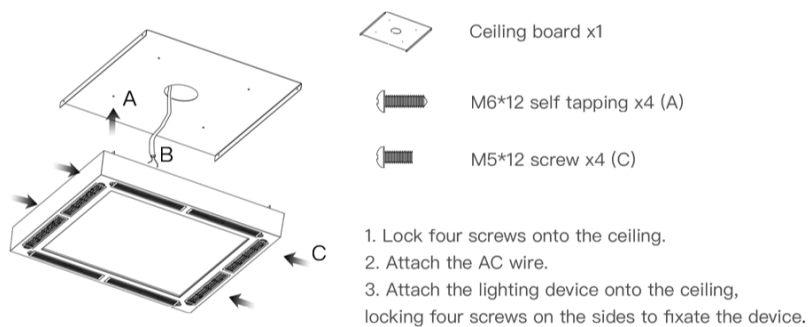
ANTI-BACTERIAL/
VIRAL LUMINAIRE



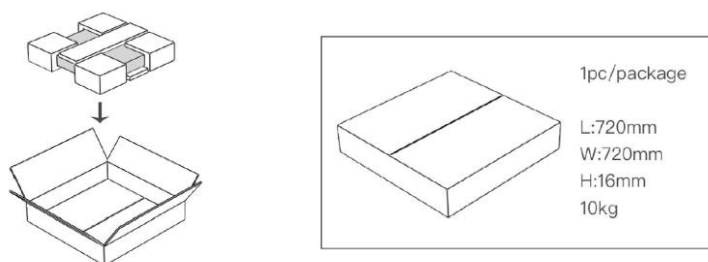
Electrical Connection and Technical Drawing



Surface Mount Accessory



Packaging



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Spec 20181101