

XENOSUN[®]LIGHT What is Artificial sunlight ?
XENOSUN



It is a state-of-the-art convergence artificial sunlight lighting that neutralizes various bacteria and viruses by using 405nm visible wavelength light that is harmless to the human body.



XENOSUN[®]LIGHT
XENOSUN

A new paradigm of life quarantine that neutralizes viruses with light !

Antiviral • antibacterial artificial sunlight lighting

Various bacteria
99.9%
Neutralization
Antibacterial
harmful bacteria

Human body
Safety evaluation
IEC62471
Highest grade

FULL
SPECTRUM
Wavelength
Artificial sunlight
lighting

Convenient
management
without need for
ventilation
or cleaning



Registered patent



Public Procurement Service
venture country



School marketplace



Safety
certification



Technology Innovation
small and medium-sized
business



ISO 9001



ISO 14001



Venture business

What is XENOSUN[®] LIGHT ?

XENOSUN

As an LED lighting that neutralize harmful viruses and bacteria such as respiratory viruses (COVID-19, MERS, SARS etc), Salmonella, E.coli, pneumonia and etc, A 405nm purple LED that is harmless to the human body is used, and it is an artificial sunlight white LED similar to natural sunlight that has high CRI and minimize eyestrain.

405nm

Antiviral, Antibacterial function / Purple area



BLUE SPIKELESS

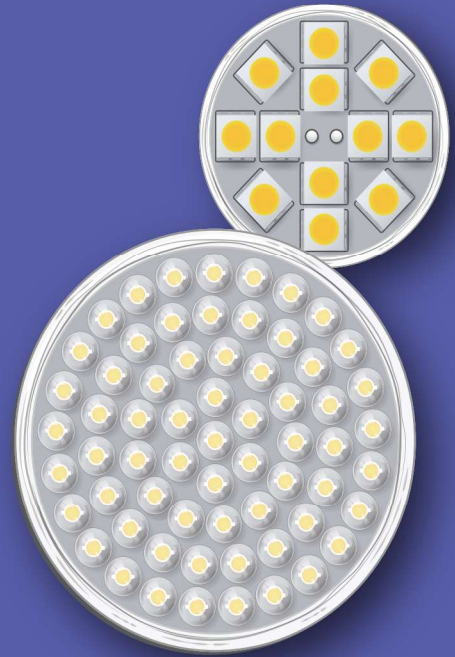
Eyesight protection / Bio-rhythm aid



Artificial sunlight function / Visible light area
(Full Spectrum)

Applied patent technology : 10-1990475

Multi-wavelength
multifunctional integrated
LED new light source



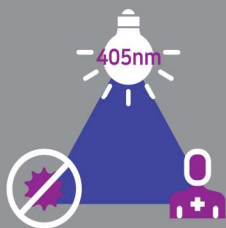
General LED lighting features

While general LED that we use are energy efficient, eco-friendly and have many advantages such as long battery. Including blue light due to the nature of light implementation, Blue light has a disadvantage of reducing the secretion of melatonin at night, adversely affecting sleep, and accelerating the aging of the retinal tissue, reducing vision and increasing eyestrain. In particular, it has the disadvantage of causing certain degenerative eye disease such as age-related macular degeneration.

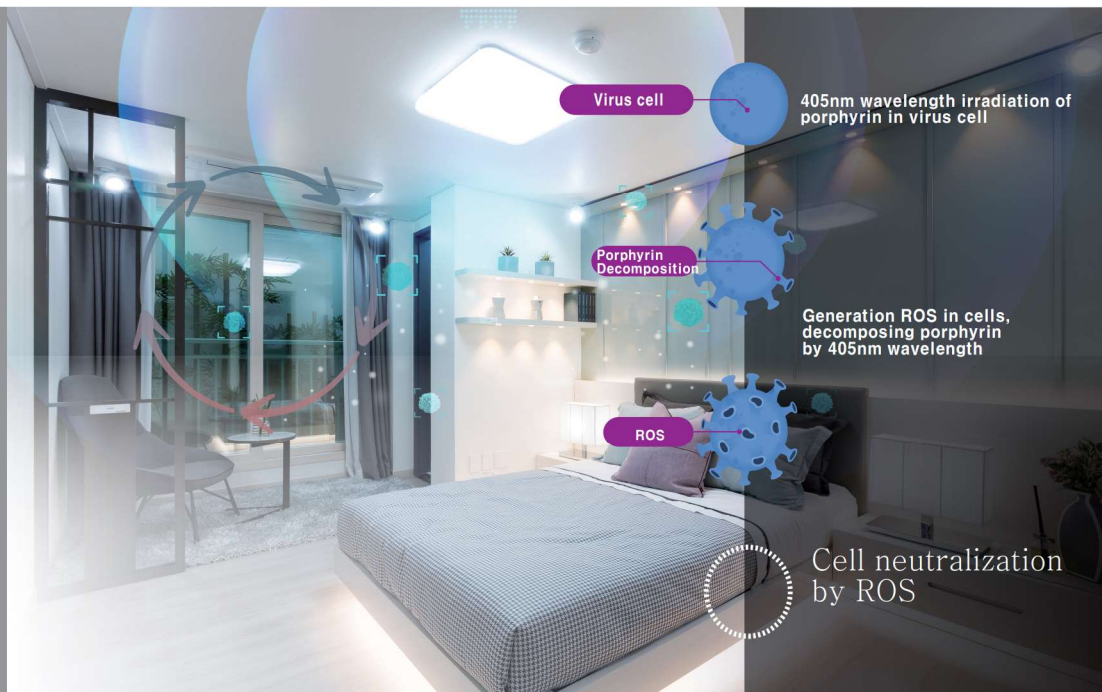


That is how neutralizes the virus.

Applying 405nm wavelength harmless to human body, It neutralizes the virus everywhere the light hits the space.



Unlike UV (Ultra Violet), which directly destroy DNA, the virus is neutralized by ROS (Reactive Oxygen Species) generated by the 'Porphyrin' decomposition the virus cell to 405nm



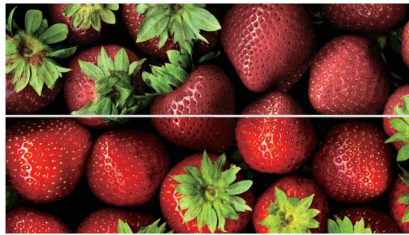
1. BLUE SPIKELESS

There is no blue spike that adversely affects eyeball macular degeneration or melatonin secretion.



2. HIGH CRI

The Ultra-high CRI LED of CRI max.99 makes colors vivid and vibrant.



3. Prevention of myopia/glaucoma

The genes that play a role in protecting myopia in the retina are increased, helping to prevent myopia and glaucoma.



4. FULL SPECTRUM (Artificial sunlight / natural light)

It is a continuous spectrum of seven colors with less strain and covers all visible light such as sunlight.



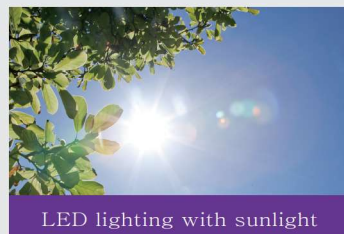
5. Human Centric Lighting & Circadian rhythm lighting

This LED is the most similar light to natural sunlight, and is suitable for H.C.L and circadian rhythm (biorhythm) lighting.



Spectrum of light

- As high and low in the wavelength range, Spectrum of light can know the features of each light source.
- The fact the wavelength intensity of the spectrum is evenly expressed in the visible region means that any color is well expressed.
- In other words, High-CRI enhances color reproducibility, increasing concentration and reducing light fatigue.
- XENOSUN LED most similar to natural light wavelength.



Comparison by light source

Feature	XenoSun LED	M Company	H Company
Antiviral	0	0	0
Artificial sunlight	0	x	x
Antibacterial effect	0	0	0
Color implementation	Can implement daylight color, day white color, light bulb color	Can implement Purple only with 405nm wavelength	Can implement Purple only with 405nm wavelength
Harmless to human body	0	0	0

Downlight

Model No.	Power(W)	CCT(K)	CRI(Ra)	Size	Input Voltage(VAC/Hz)	Remark
AQD170(15)	15	4000 ~ 7000	95~99	6 in	AC 200- 250 50/60	
AQD170(20)	20	4000 ~ 7000	95~99	6 in	AC 200- 250 50/60	
AQD190(30)	30	4000 ~ 7000	95~99	8 in	AC 200- 250 50/60	
AQD170(40)	40	4000 ~ 7000	95~99	6 in x 2	AC 200- 250 50/60	Dual

Panel Light

Model No.	Power(W)	CCT(K)	CRI(Ra)	Size	Input Voltage(VAC/Hz)	Remark
AQP600(25)	25	4000 ~ 7000	95~99	630 x 320mm	AC 200- 250 50/60	
AQP600(40)	40	4000 ~ 7000	95~99	630 x 630mm	AC 200- 250 50/60	
AQP600(50)	50	4000 ~ 7000	95~99	630 x 630mm	AC 200- 250 50/60	
AQP600(60)	60	4000 ~ 7000	95~99	630 x 630mm	AC 200- 250 50/60	
AQP600(100)	100	4000 ~ 7000	95~99	630 x 630mm	AC 200- 250 50/60	
AQP1200(40)	40	4000 ~ 7000	95~99	1280 x 320mm	AC 200- 250 50/60	
AQP1200(50)	50	4000 ~ 7000	95~99	1280 x 320mm	AC 200- 250 50/60	
AQP1200(60)	60	4000 ~ 7000	95~99	1280 x 320mm	AC 200- 250 50/60	
AQP1200(100)	100	4000 ~ 7000	95~99	1280 x 320mm	AC 200- 250 50/60	

Patent details



Domestic Patent : 10-1990475

With a patent that minimizes UV wavelength and Blue Spike by using an LED device with a number of phosphors applied to the Near Violet chip(405nm), it performs antiviral and antibacterial functions through 405nm wavelength, Light source technology that minimizes eyestrain by implementing a spectrum(visible light region) similar to sunlight.

International Patent

Japan (6854831) : Registered Patent
Europe (18804220.4) / U.S (16/098,224)
: Under Registration examination.

< XENOSUN artificial test report >

< XENOSUN photobiological stability test report >

TEST REPORT

우 13810 경기도 과천시 교육원로 98(중앙동) TEL: (063)214-2960 FAX: (063)214-2964

상징서번호: TSK-2021-000261 접수 일자: 2021년 01월 14일
대표자: 김중욱 시험완료일자: 2021년 03월 17일
업체명: (주)삼영이앤지
주소: 전라남도 나주시 황룡3길 7-32(빛가람동)
시료명: 황바이러스용 LED 조명 (XenoSun)

시험항목	단위	시험구분	결과치	시험방법
황바이러스시뮬(Human respiratory syncytial virus) - 2시간 후	Log reduction	-	3.50	ASTM E1053-20 준용
황바이러스시뮬(Human respiratory syncytial virus) - 4시간 후	Log reduction	-	≥3.75	ASTM E1053-20 준용
황바이러스시뮬(Rotavirus A) - 2시간 후	Log reduction	-	2.75	ASTM E1053-20 준용
황바이러스시뮬(Rotavirus A) - 4시간 후	Log reduction	-	3.50	ASTM E1053-20 준용

Test Item	Exposure Time	Result	Removal Rate
Human respiratory syncytial virus (h.R.S.V.)	2 hrs	3.50	More than 99.9%
	4 hrs	3.75	More than 99.9%
Rotavirus	2 hrs	2.75	More than 99.9%
	4 hrs	3.50	More than 99.9%

Manufacturer: Aliix Co., Ltd. Salesperson: Samyoung ENG Co. Ltd
KTR 한국화학융합시험연구원

2021년 03월 17일
Page: 1 of 3

시험 성적서

1. 의뢰자
○ 회사명: (주)올릭스
○ 주소: 전라북도 전주시 덕진구 반봉로 69

2. 의뢰일자: 2020. 06. 25.

3. 성적서 용도: 성능측정

4. 시험 규격/항목: 의뢰자 제시 규격 / 램프와 램프장치의 광생물학적 안전성 (항목 규격 KS C IEC 62471: 2019)

5. 시험 기간: 2020. 06. 30. ~ 2020. 07. 10.

6. 시험 결과: 시험결과 참조

시험 정보
○ 온도: (24 ± 3) °C
○ 습도: (45 ± 10) % R.H.
○ 품목: LED 등기구
○ 모델명: AOD180(15)
○ 규격: 220 V~, 60 Hz, 16 W

시험 정보 (Tested lamp)	시험 결과 (Test result)
램프 분류 그룹 (Lamp classification group)	시험 결과 (Test result)
□ 연속파 램프 (Continuous wave lamps)	□ 펄스 램프 (Pulsed lamps)
□ 예외군 1 (Risk 1)	□ 예외군 2 (Risk 2)
□ 예외군 3 (Risk 3)	□ 예외군 3 (Risk 3)

2020. 07. 14.

한국조명 ICT 연구원

양식-KILT-P-20-01B(Rev. 6.0) page 1 of 14 한국조명(CT)연구원(KILT)

< Certificate of conformity registration of XENOSUN broadcasting and communication equipment, etc >

< XENOSUN Safety certification >

방송통신기자재등의 적합등록 필증
Registration of Broadcasting and Communication Equipments

상호 또는 성명 (주) 올릭스
기자재명칭(제품명칭) LED 등기구(레입형)
기본모델명 AOD180(15)
파생모델명
등록번호 R-81-1P1-AOD180-15
제조자/제조(조합)국가 (주) 올릭스 / 한국
등록연월일 2020-08-20

이 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2020년 08월 20일 (Month) 20일 (Day)

국립전파연구원장
Director General of National Radio Research Agency

안전인증서
Safety Certificate

안전인증번호: JN11037-20001A
제조업자/수입업자명: (주)올릭스
주소: 전라북도 전주시 덕진구 반봉로 69(광복동2가)
제품명: LED등기구(레입형)
기본모델명: AOD180(15)
파생모델명: AOD170(15), AOD170(20)
정격/인정/인증/인증구분: 220 V~, 60 Hz, 15 W (LED 0.3 W × 48 EA)
시험기준: KC6598-1(2015-09), KC6598-2(2015-09)

본 인증서는 제조국명: 대한민국
제조업자명: (주)올릭스의 제품에만 해당함
제조공장의 주소: 전라북도 전주시 덕진구 반봉로 69(광복동2가)

2021년 03월 09일
year month day

KTR 한국화학융합시험연구원
KOREA TESTING & RESEARCH INSTITUTE

Neutralizing viruses and bacteria in real time



Antiviral · antibacterial artificial
sunlight irradiation lighting



Department Store



Subway



Hospital



School



Public office



Office



Sport facilities



restaurant



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