

VALKIDA

VALKIDA Co., Ltd.
A. 4F, 250, Hakui-ro, Dongan-gu, Anyang-si, Gyeonggi-do,
Republic of Korea
T. +82-50-6575-7973 F. +82-50-4213-7973
E. valkida@naver.com
W. www.valkida.com



Lighting with a Perk.
Get your Air-Clight for spatial disinfection

VALKIDA

VALKIDA

An LED lighting that reduces airborne bacteria

VALKIDA AIRCLIGHT

2022 PRODUCT CATALOG

Total airborne bacteria

The total airborne bacteria mean the general bacteria and pathogenic bacteria floating in the area. They exist in our indoor environments throughout the year. Total airborne bacteria that survive by sticking to a particle of dust or vapor is a biological contaminant that reproduces itself. Therefore, they can multiply in number significantly to reach a high density if the indoor air quality is not kept under control.



The cause of allergic diseases

Total airborne bacteria are one of the most representative biological contaminants that exist in indoor environments and may cause fever, coughing, or inflammation.

Also, if they come in contact with the respiratory organs, mucosa, skin, etc., they can cause hypersensitivity, atopic dermatitis, infectious diseases, allergic diseases, or respiratory diseases.

PLASMA WIND SYSTEM

Balkida Air-Clight to reduce the total airborne bacteria

By generating plasma wind, the device can send the wind to the outside without a fan, reducing the airborne bacteria that are invisible to our eyes but can inflict harm to our health.

SEMI-PERMANENT

Balkida Air-Clight that you can trust and last almost indefinitely

No noise from the product due to the fan-less design. Almost indefinite service life due to the use of a filter-less design Balkida Air-Clight, an environmentally-friendly product that you can trust.



Filterless System

Due to the absence of filters, the Air-Clight prevents the multiplication of the secondary viruses because of dust from happening.



Fanless System

The Air-Clight prevents noises or malfunctions due to fans thanks to its fan-less design.



ANTIBACTERIAL

Brightness + color temperature + spatial anti-bacterial effect

If the existing lighting was limited to brightness and color temperature, Balkida Air-Clight is capable of spatial disinfection, as well.



Kills 99.9% of pneumococcus in the space of 8m³.

KCL 한국건설생활환경시험연구원
Korea Conformity Laboratories

ISO 16000-36:2018 테스트 챔버를 사용하는 공기 청정기에 의한 배양 가능한 공기 중 박테리아의 감소율을 평가하는 표준 방법.

부유미생물 저감 시험(예험군) Airclight모듈 기동 전 농도(CFU/m³) 1.0 x 10⁴ 기동 후 농도(CFU/m³) < 10 감소율 99.9% 시험환경 (37.0 ± 0.2) °C (50.5 ± 2.0) % R.H. CFU : Colony Forming Unit 시험군주 : Klebsiella pneumoniae ATCC 4352

챔버크기 : 8m³ 측정장비 : MAS-100 NT (MERCK, 유량 : 100 L/min 기동시간 : 3시간) Feller Conversion Table 적용 의뢰자제시기간 : ISO 16000-36:2018에 준함 (단, 제품가동시간:3시간)

시험장소 : 경기도 안성시 중앙로 327 한국대학교 산학협력관

항균시험 : 대장균 Airclight모듈 기동 전 농도(CFU/m³) 1.1 x 10⁴ 기동 후 농도(CFU/m³) < 10 감소율 99.9% 시험환경 (37.0 ± 0.2) °C

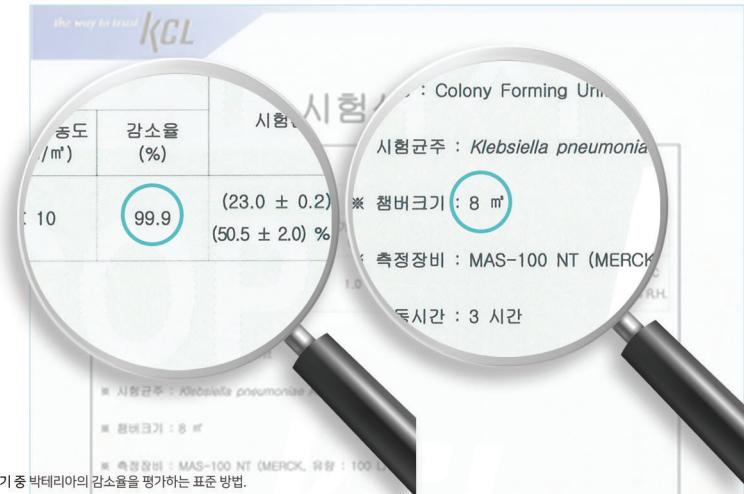
항균시험 : 항색포도상구균 Airclight모듈 기동 전 농도(CFU/m³) 1.1 x 10⁴ 기동 후 농도(CFU/m³) < 10 감소율 99.9% 시험환경 (37.0 ± 0.2) °C

항균시험 : 폐렴균 Airclight모듈 기동 전 농도(CFU/m³) 1.1 x 10⁴ 기동 후 농도(CFU/m³) < 10 감소율 99.9% 시험환경 (37.0 ± 0.2) °C

CFU : Colony Forming Unit 시험군주 : Klebsiella pneumoniae ATCC 4352 Escherichia coli ATCC 25922 Staphylococcus aureus ATCC 6538

제시방법 : 의뢰자가 제공한 아크릴 박스(50cm x 50cm x 50cm) 내부에 시험군주가 접종된 배지와 제품을 넣고 배지를 의뢰자가 제시한 제품 토출구로부터 50cm 거리에서 24시간동안 노출 시킨후 감소율 측정

검증원 준비 : 접종방법 및 결과판독 : KCL-FIR-1002:2018 준함. 시험장소 : 경기도 안성시 중앙로 327 한국대학교 산학협력관



The total airborne bacteria control criteria.

The Act on the Control of Indoor Air Quality in Publicly Used Establishments, etc., sets a limit of 800 CFU/m³ for medical institutions, child-care facilities, public long-term care homes and geriatric clinics, and post-delivery care centers, as well as other sensitive establishment groups. (Fungi limit 500 CFU /m³)

Article 3 of Act on the Control of Indoor Air Quality (Scope of Application) - Publicly used establishments (26 in total, including subway stations, large retail places, child-care centers, etc.)

Contaminants	Fine dust (PM-10) (µg/m ³)	Fine dust (PM-2.5) (µg/m ³)	Carbon dioxide (ppm)	Formaldehyde (µg/m ³)	Total airborne bacteria (CFU/m ³)	Carbon monoxide (ppm)
Publicly used establishments						
Subway stations, underground arcades, lobbies of railway stations, lobbies or bus terminals, lobbies or ports, passenger lobbies or airports, libraries, museums, art galleries, large retail facilities, funeral homes, movie theaters, cram schools, exhibition centers, business facilities for Internet computer gaming facility businesses, business facilities of public bath businesses	Less than 100	Less than 50	Less than 1,000	Less than 100	-	Less than 10
Medical institutions, post-delivery care centers, long-term care homes, child daycare centers, children's indoor playgrounds	Less than 75	Less than 35		Less than 80	Less than 800	
Indoor parking lots	Less than 200	-		Less than 100	-	Less than 25
Indoor sports facilities, indoor performance halls, offices or buildings of multiple purposes	Less than 200	-	-	-	-	-

Contaminants	Nitric dioxide (ppm)	Radon (Bq/m ³)	Total VOC (µg/m ³)	Fungi (CFU/m ³)
Publicly used establishments				
Subway stations, underground arcades, lobbies of railway stations, lobbies or bus terminals, lobbies or ports, passenger lobbies or airports, libraries, museums, art galleries, large retail facilities, funeral homes, movie theaters, cram schools, exhibition centers, business facilities for Internet computer gaming facility businesses, business facilities of public bath businesses	Less than 0.1		Less than 500	-
Medical institutions, post-delivery care centers, long-term care homes, child daycare centers, children's indoor playgrounds	Less than 0.05	Less than 148	Less than 400	Less than 500
Indoor parking lots	Less than 0.30		Less than 1,000	-

A colony of airborne bacteria

CFU: Colony-forming unit. A unit for counting the number of colonies of bacteria.



When the density of airborne bacteria is low.



When the density of airborne bacteria is high.

The purpose is to control and maintain the quality of the air inside a publicly used establishment, newly built multi-unit residential buildings, and public transit vehicles property to protect the health of the citizens who use such facilities and prevent environmental harm. (Revision on 2020.04.03)



Common space / Hallway

Usable in various places

Valkyda Airclite



Kindergarten

Library



Hospitals and Nursing homes



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School



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RECESSED LIGHT

Front door / dress room / pantry

LED 20W (max)

LED 10W (max)

3000K – 5700K

InjectionPC

InjectionABS

Steel

W260 X D260 X H50 (Cut-W240 X D240)

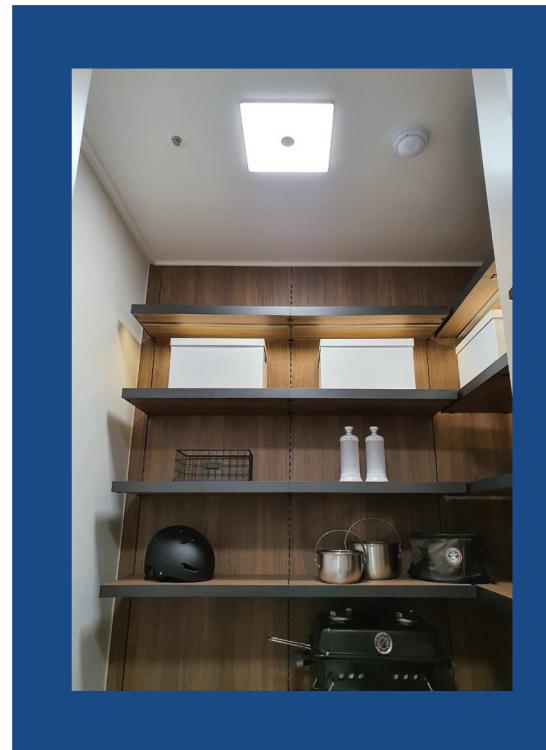
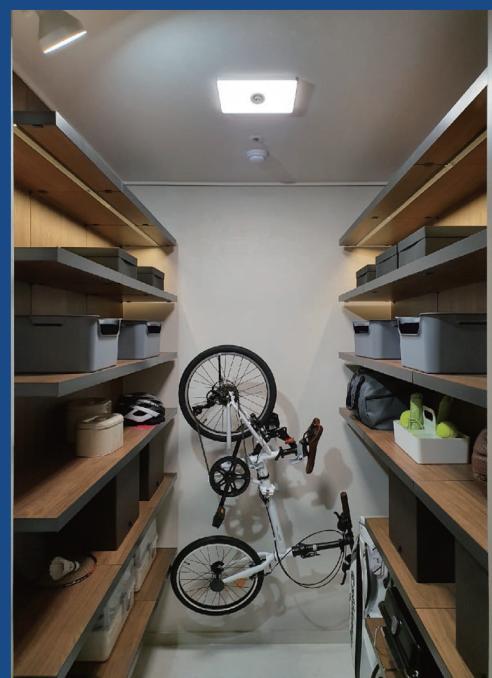
W200 X D200 X H50 (Cut-W180 X D180)

TRIMLESS DESIGN

A neat, modern look
without trims



Light Sensor Bacterial
reduction



VALKIDA

RECESSED LIGHT
Kitchen / Bathroom
/ Dressroom / Pantry

LED 30W (max)
LED 40W (max)
3000K - 5700K
InjectionPC
InjectionABS
Steel

TRIMLESS DESIGN

A neat, modern look
without trims



Light Bacterial
reduction



Embedded type

W700 X D120 X H50 (Cut-W680 X D100)
W1000 X D120 X H50 (Cut-W980 X D100)



Basic type

W700 X D120 X H40
W1000 X D120 X H40

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CEILING / WALL LIGHT
Balcony / Outdoor unit room

LED 8W (max)
3000K – 5700K
InjectionPC
InjectionABS
W150 X H50

LED 15W (max)
3000K – 5700K
InjectionPC
InjectionABS
W230 X H65



COMPACT DESIGN

A compact product with
a wide light dispersion



VALKIDA

CEILING / WALL LIGHT
Balcony / Outdoor unit room

LED 15W (max)
3000K – 5700K
InjectionPC
InjectionABS
W220 X H65

LED 15W (max)
3000K – 5700K
InjectionPC
InjectionABS
W250 X H80

TRIMLESS DESIGN

A neat, clean design without trims



Light Bacterial reduction



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DOWN LIGHT

Hallway / bathroom / common area

LED 12W (max)

3000K – 5700K

InjectionPC

InjectionABS

Steel

W173 X H65 (CUT : W155)

LED 8W (max)

3000K – 5700K

InjectionPC

InjectionABS

Steel

W105 X H50 (CUT : W95)

TRIMLESS DESIGN

A neat, clean design without trims



Light



Bacterial reduction



VALKIDA

RECESSED LIGHT

Living Room / Bedroom
/ Kitchen / Dressing Room

LED 6W (max)

3000K – 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

W130 X D63 X H65 (CUT:W115 XD45)



COMPACT DESIGN

Makes your kitchen
space look more open



LIGHT



VALKIDA

RECESSED LIGHT

Living Room / Bedroom
/ Kitchen / Dressing Room

LED 12W (max)

3000K – 5700K

InjectionPC

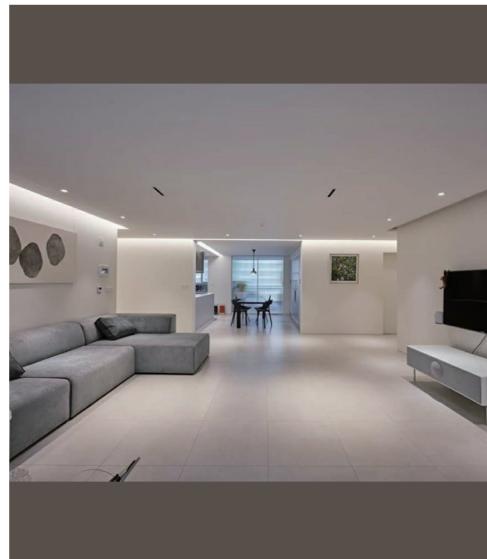
InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

W233 X D63 X H42 (CUT:W215 XD45)

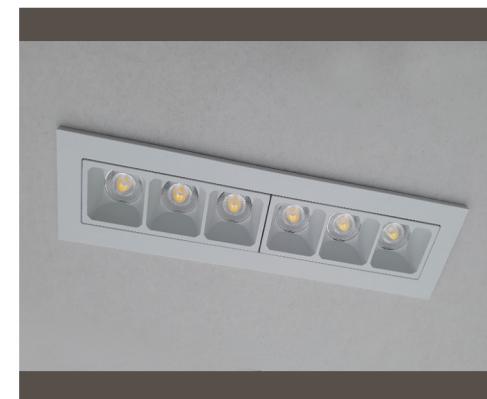


COMPACT DESIGN

Makes your kitchen
space look more open



LIGHT



VALKIDA

RECESSED LIGHT

Living Room / Bedroom
/ Kitchen / Dressing Room

LED 8W (max)

3000K – 5700K

InjectionPC

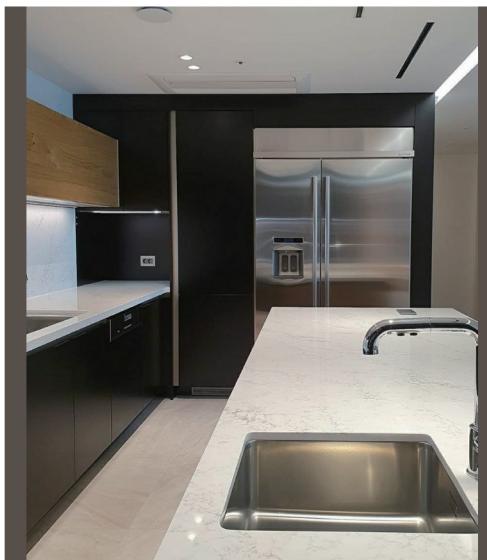
InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

W115 X D115 X H42 (CUT:W98 XD98)

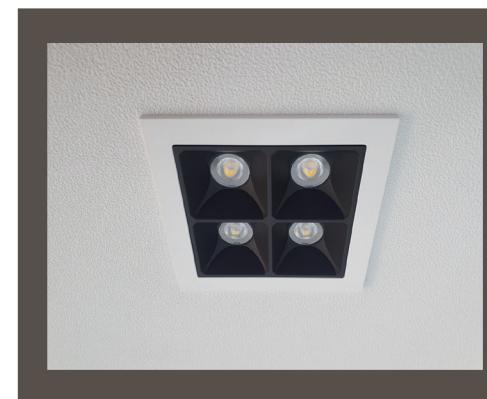
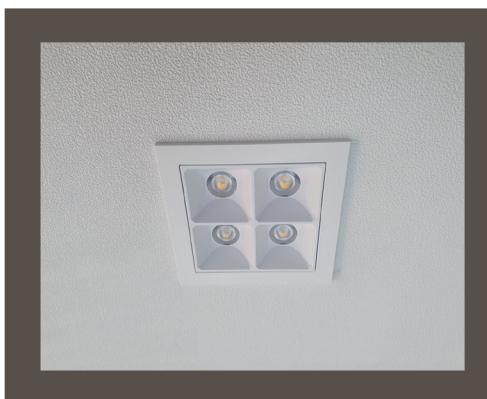


COMPACT DESIGN

Makes your kitchen
space look more open



LIGHT



VALKIDA

RECESSED LIGHT

Living Room / Bedroom
/ Kitchen / Dressing Room

LED 12W (max)

3000K – 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

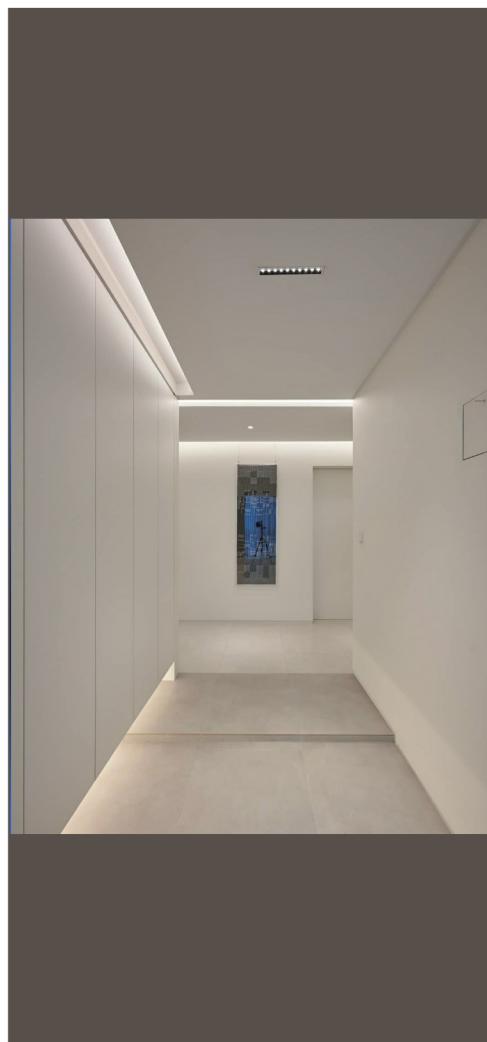
W135 X D135 X H42 (CUT:W118 XD118)

COMPACT DESIGN

Makes your kitchen
space look more open



LIGHT



VALKIDA

RECESSED LIGHT

Living Room / Bedroom
/ Kitchen / Dressing Room

3000K – 5700K

InjectionPC

InjectionABS

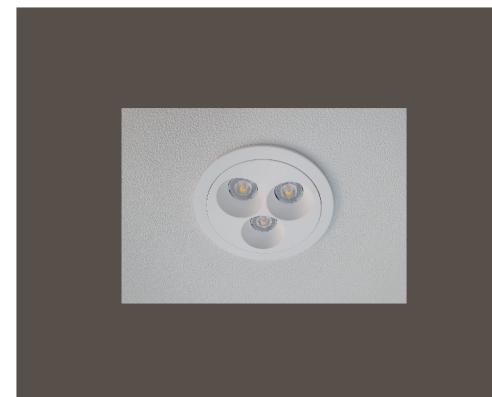
Steel

WhiteBody

Reflector(Chrome, Black, White)

LED 6W(MAX)

W112 X H45 (CUT:W100)



COMPACT DESIGN

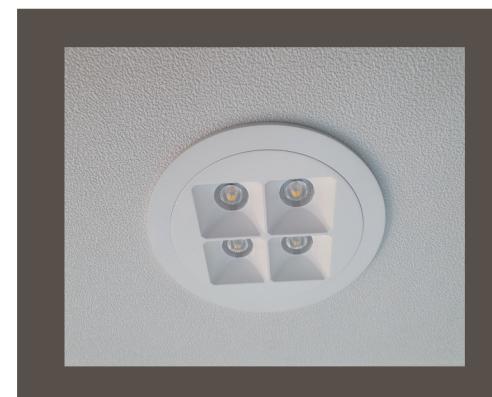
Makes your kitchen
space look more open



LIGHT

LED 8W(MAX)

W145 X H45 (CUT:W120)



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RECESSED LIGHT

Dining Table / Hallway

3000K – 5700K

InjectionPC

InjectionABS

Steel

LED 8W(MAX)

W112 X H45 (CUT:W100)



PIN UP DESIGN

A modern design
that prevents flashing



LIGHT

LED 8W(MAX)

W105 X H50 (CUT:W95)



VALKIDA

RECESSED LIGHT

Living Room / Bedroom
/ Kitchen / Dressing Room

3000K – 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

COMPACT DESIGN

Makes your kitchen
space look more open



LIGHT

LED 10W(MAX)

W165 X H45 (CUT:W150)



LED 15W(MAX)

W165 X H45 (CUT:W150)



VALKIDA

RECESSED LIGHT

Dining Table / Hallway

3000K – 5700K
Beam Angle 15,24,40
InjectionPC
InjectionABS

LED COB 8W~12.5W(MAX)
W110 X H60 (CUT:W95)



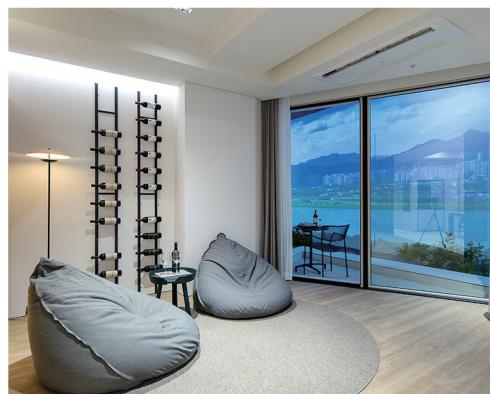
POINT DESIGN

A modern design
that prevents flashing



LIGHT

LED COB 16W~25W(MAX)
W110 X H60 (CUT:W95)



VALKIDA

RECESSED LIGHT

Dining Table / Hallway

LED 10W (max)

3000K – 5700K

InjectionPC

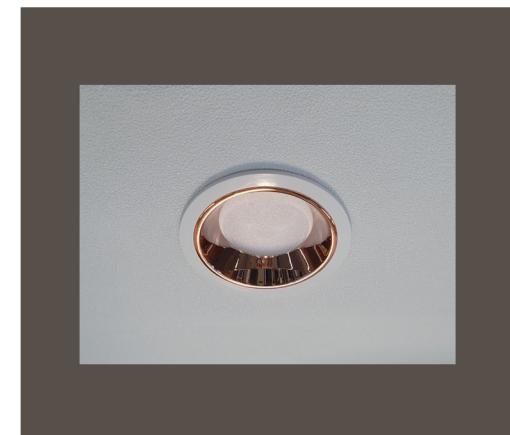
InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

W110 X H60 (CUT:W95)



POINT DESIGN

A modern design
that prevents flashing



LIGHT