

CIVILLIGHT

HALED Pro.

HCL by Intelligence and Rhythm with SUNWHITE®
CRI97⁺, Halogen light effects with HALED®



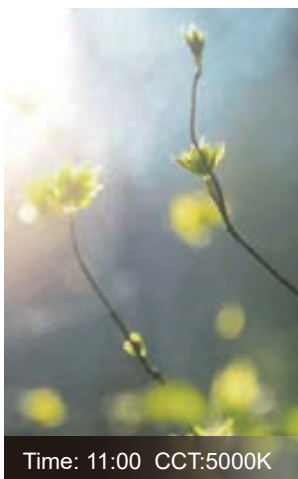
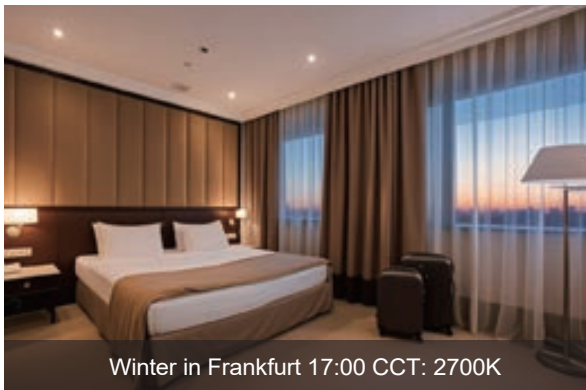
HALED Pro.

CRI97, R9>95, Rf>95 full spectrum, halogen-like comfortable light effect with low glare;
Ideally promoting melatonin growth to improve optimally human biological, psychological, and physical rhythm, ultimate human-centric light (HCL);
Smart lighting control, by DALI2 or Casambi;

Patented HALED optical design;
Cold forged housing is unique as optimal heat sink (most die-cast luminaires used in non-enclosed luminaires);
Graphene coated black version with supreme heat dissipation can be used in enclosed luminaires;

Industry-leading useful light efficiency up to 100Lm/;
Top-glass useful light efficiency & optimally saving energy.

HALED Pro. With HCL



Spring



Summer



Autumn



Winter

Light change like sunlight by SUNWHITE Technology
Automatically adjusting according to the season and time of day at your location.

For example:

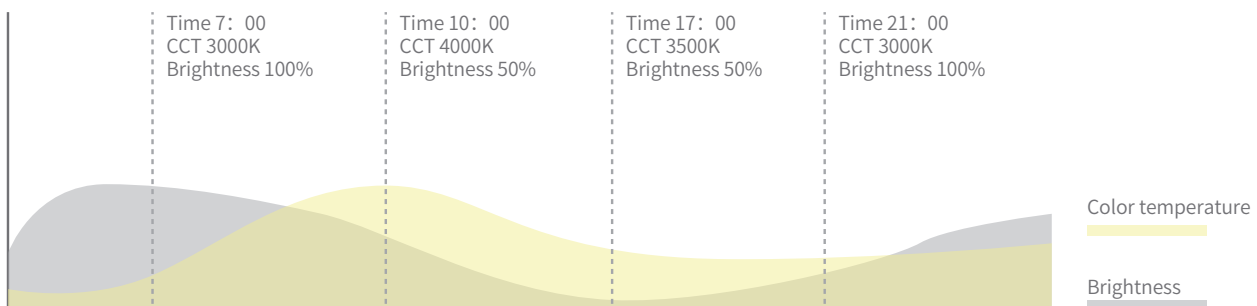
It shifts to warm white in winter,
Neutral white in autumn,
And cool white in summer.

Similarly, it provides neutral or cool white light at midday,
And warm white light in the evening.



HCL by SUNWHITE Technology

Frankfurt - Winter



SUNWHITE® Technology

Which enables automatic adjustment of both the color and brightness of the lights, without the need for an additional control system.

By combining SUNWHITE technology with auto-dimming brightness, the luminaire intelligently adjusts its output.
Or connect with other dimming technology (wire and wireless)



Safe, Easy

SUNWHITE dimming technology

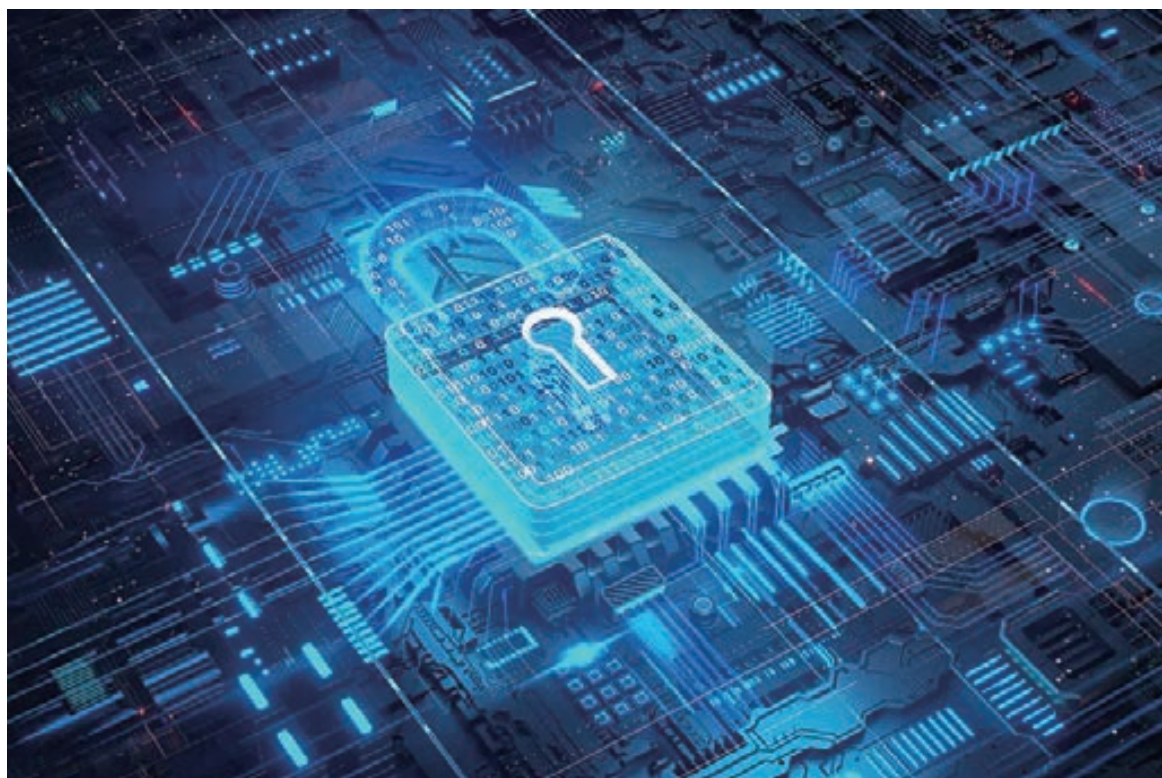
Note: SUNWHITE requires no network connection or app, ensuring user data security.

It automatically synchronizes with local sunrise/sunset times.

Simple manual adjustments are accessible even for elderly or child users.

SUNWHITE requires no network connection or app, ensuring user data security.

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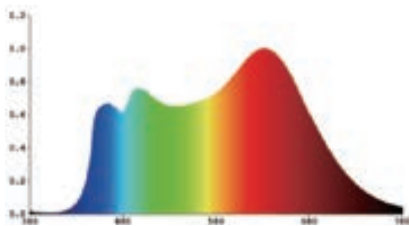


HALED Pro. With High-quality healthy light

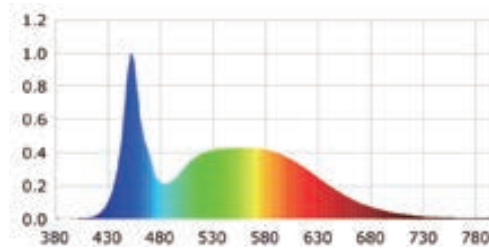
Connecting with nature like sunlight

CRI 97, R9 > 95, Rf > 95

Industry-leading useful light efficiency up to 100Lm/W



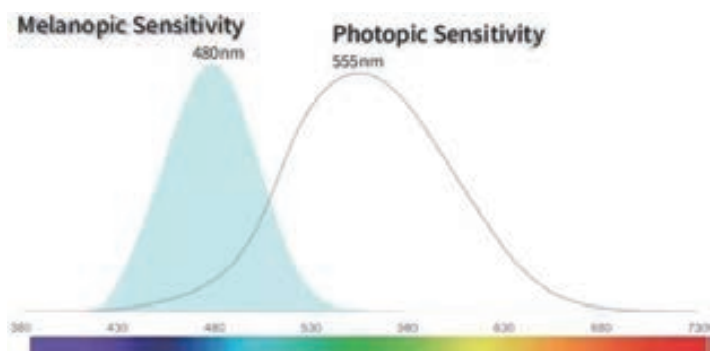
HALED Pro Spectrum



Other products on the market Spectrum

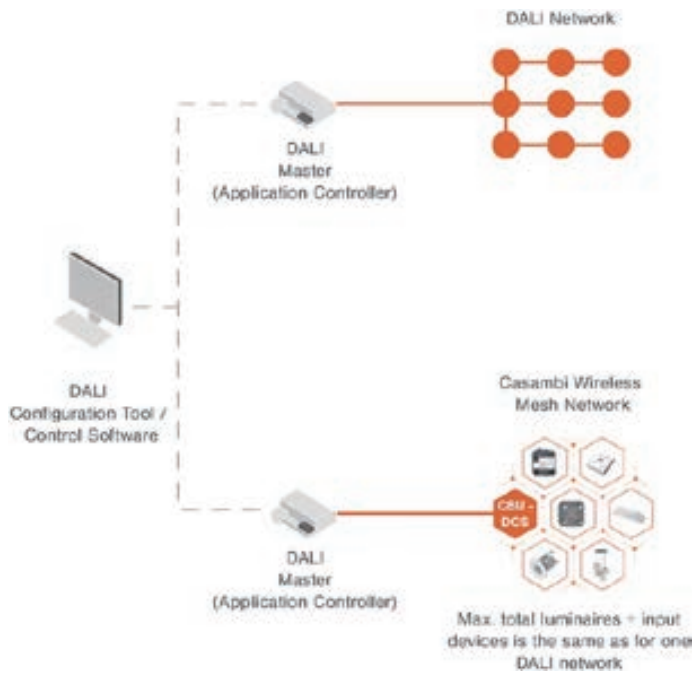
Healthy lightThe light of the sun affects biological, psychological, and physical influences by controlling the human biorhythm. However, modern people spend their time mostly indoor so that people cannot enjoy the benefit of natural light.

Healthy light promotes the growth of melatonin
The CCT is as low as 2100K

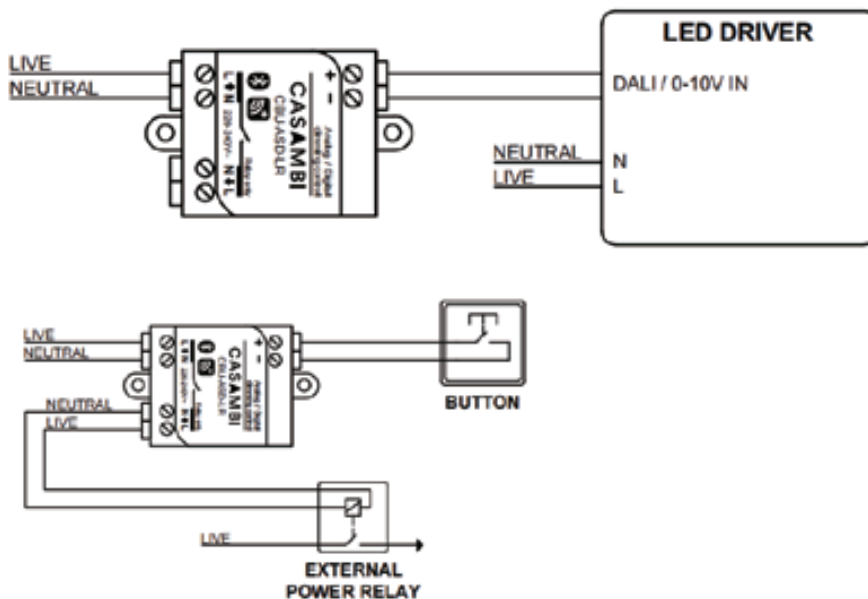


Melatonin is an amine hormone secreted by the human pineal gland. Due to its significant role in regulating sleep and circadian rhythms, it has been extensively studied and applied.

HALED Pro. Diversified intelligent control solution.



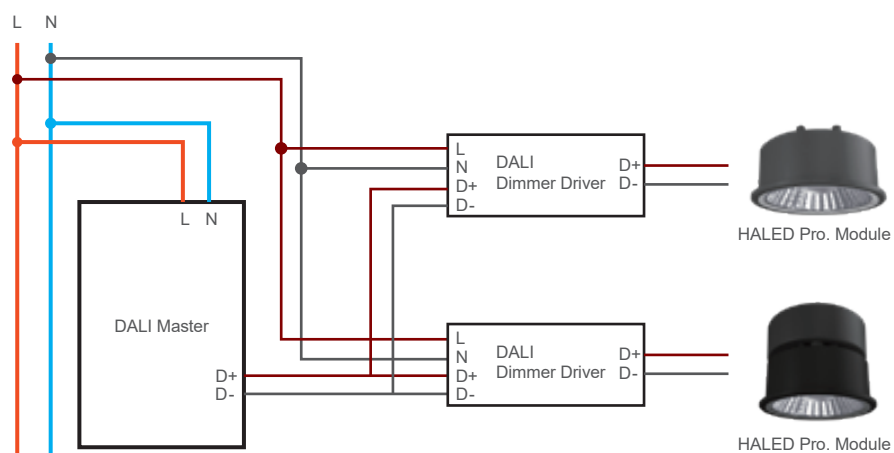
Wireless control (APP)



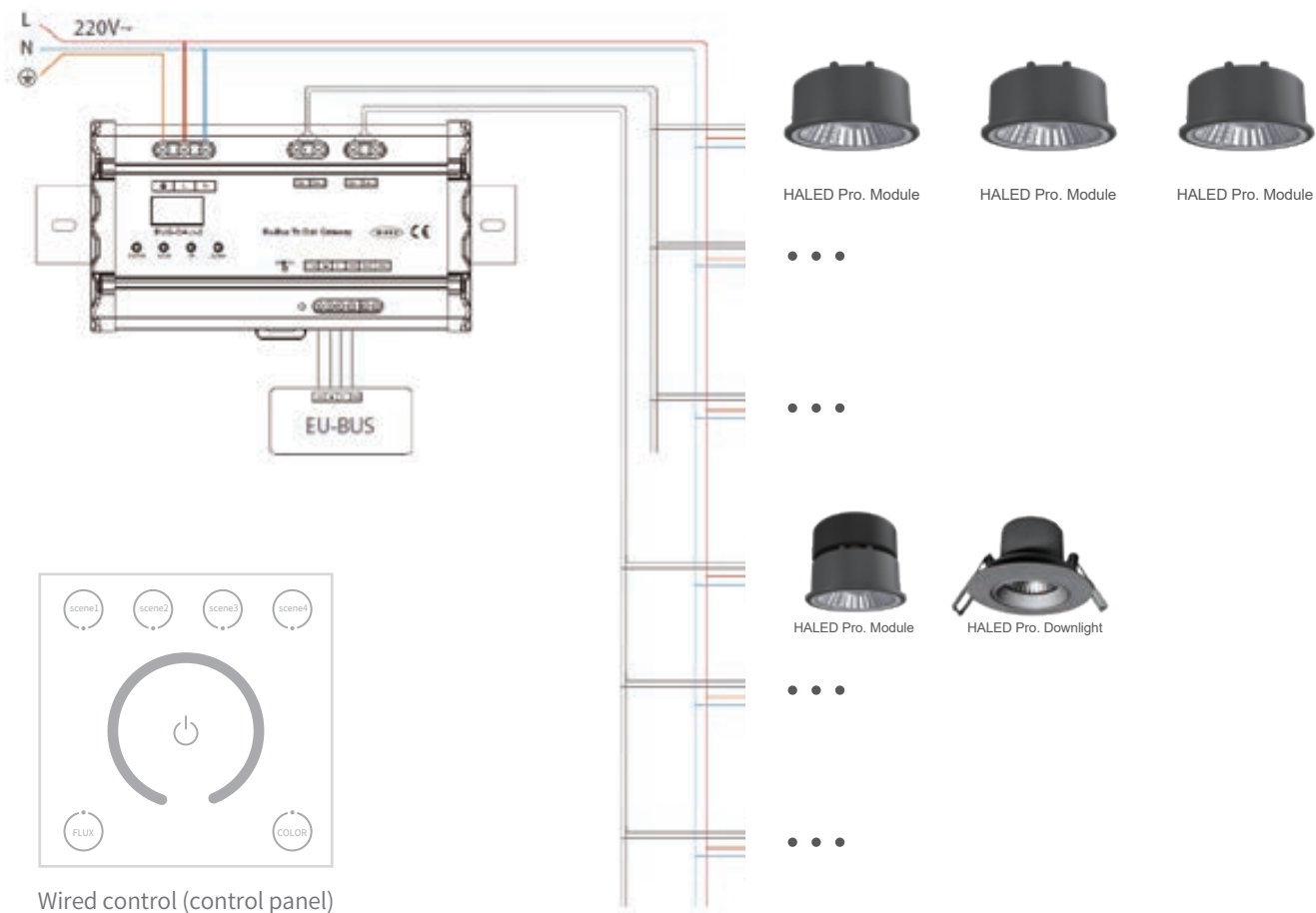
CASAMBI Technology

This system supports Casambi protocols, enabling large-scale project implementation via wireless solutions, as well as wire-wireless convergence.

Input: AC220~240V



It can be connected to a DALI dimmer drive to achieve single-lamp single-control and multi-lamp group control

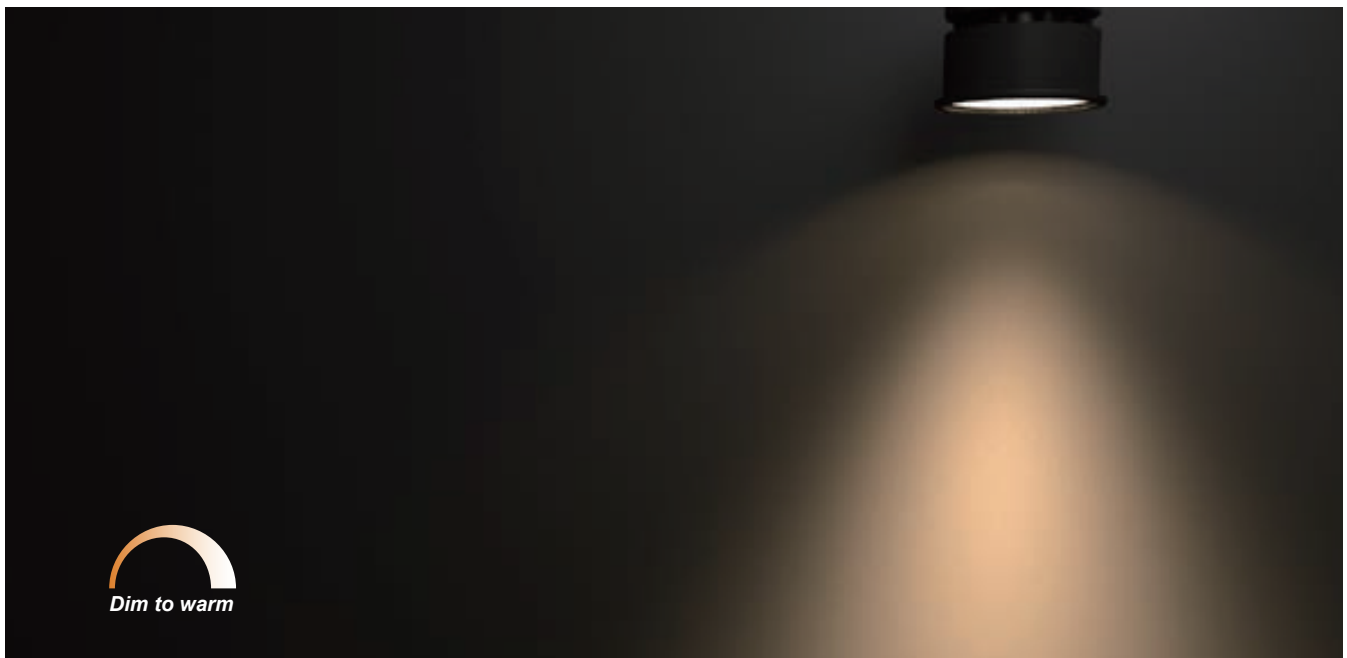


DAI Technology

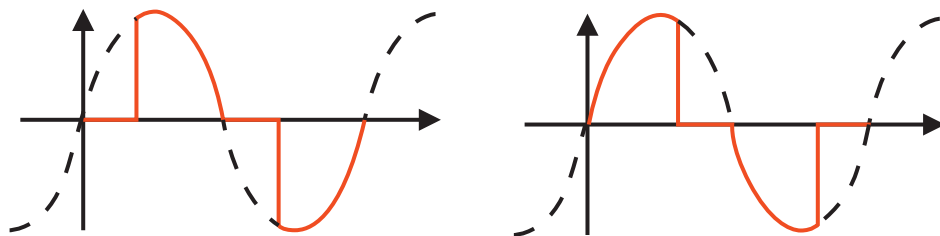
It can be connected to a DALI dimmer drive to achieve single-lamp single-control and multi-lamp group control

Dim to Warm same as Halogen Lamp

The light will be change to warm like candle light when dimming the brightness, Both wire-dimming(triac dimming and DALI) and wireles-dimming(bluteeth and others).



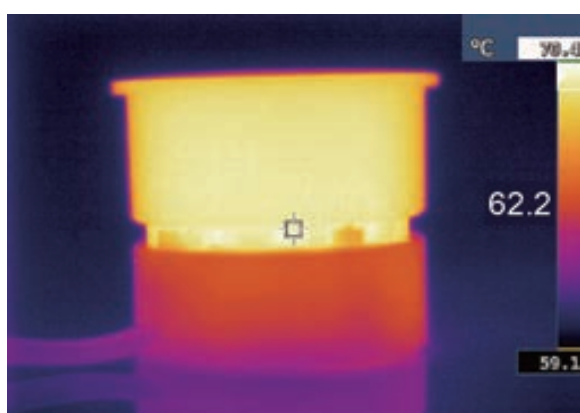
HALED optical light effect is similar to traditional halogen spots



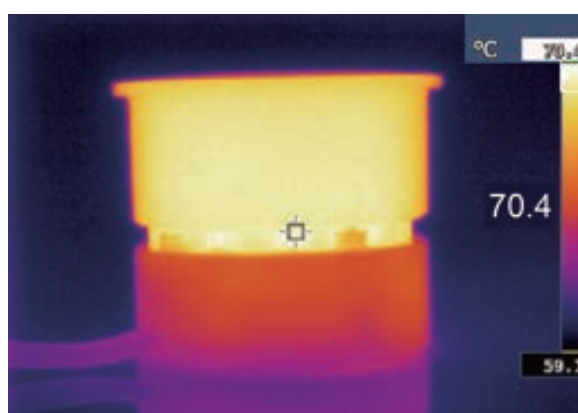
Dim to Warm by Triac Dimmer

It is compatible with both front-edge phase-cutting dimming and rear-edge phase-cutting dimming methods simultaneously

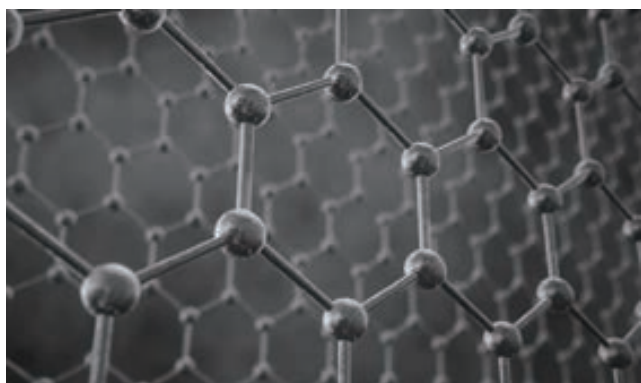
Excellent heat dissipation by Graphene + cold forging process



Graphene layer



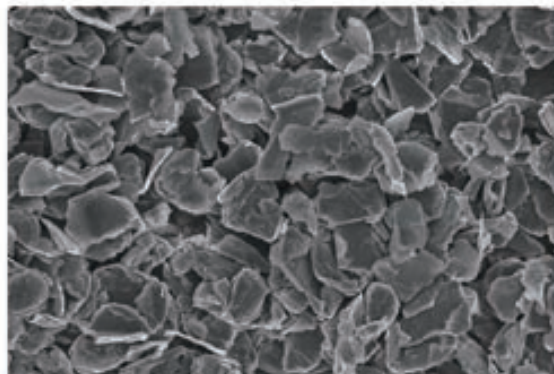
Conventional product



The surface coating is made of graphene (only the surface is black). It has excellent heat radiation capability. Even for a 10W product, it can be used in sealed lighting fixtures.

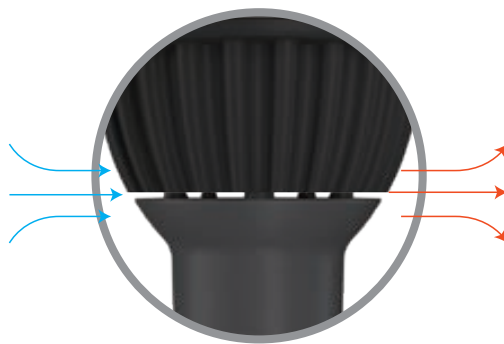


Physical picture

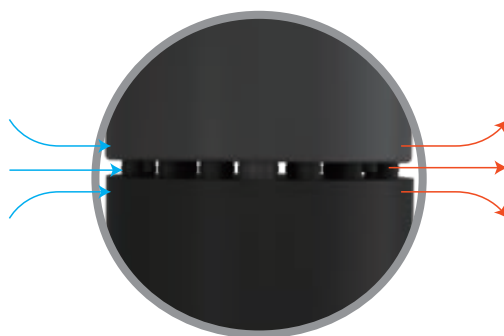


Microstructure

1070 pure aluminum material cold forging process



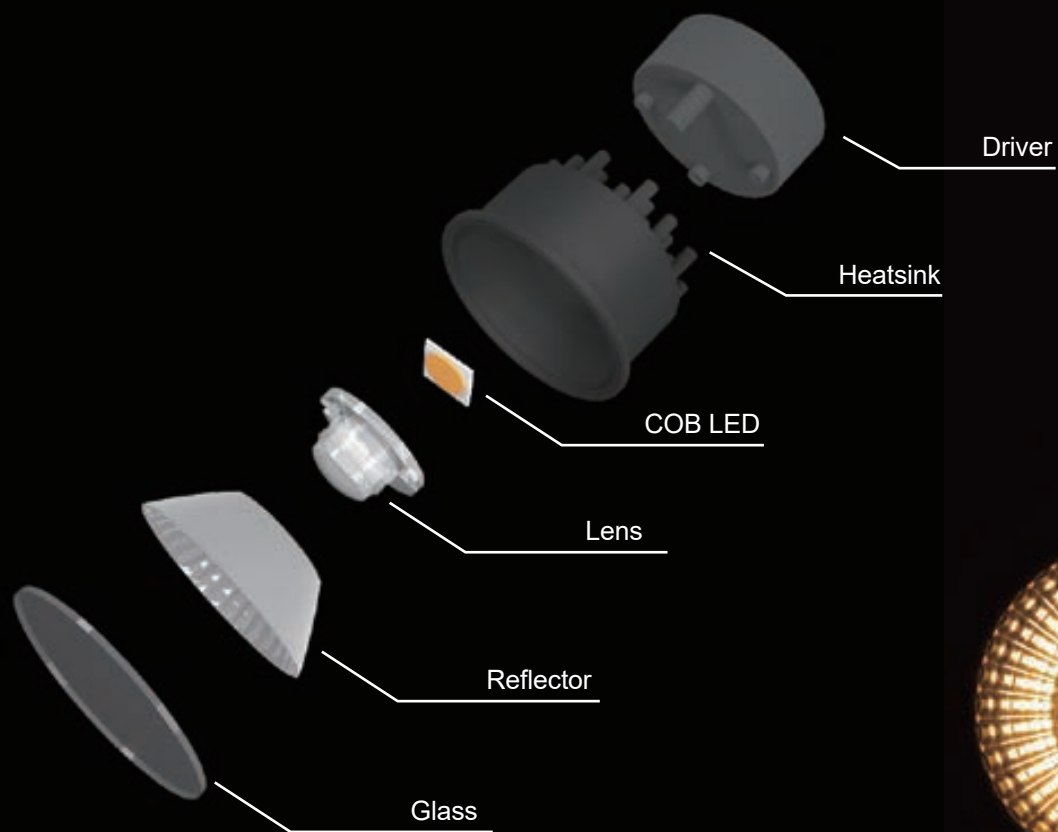
Heat radiation structure



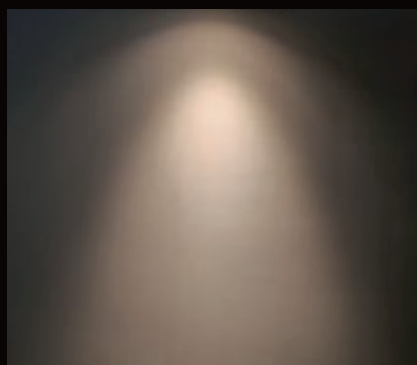
Heat radiation structure

Between the lamp body and the driver, a gap of 3 to 5 millimeters should be maintained to prevent the heat from the lamp body from directly transferring to the power supply of the product, which could cause the power supply components to be affected by excessively high environmental temperatures and thereby impacting the performance and lifespan of the power supply. At the same time, this gap also increases the heat dissipation area and the release of heat, further enhancing the performance of the product.

The product can be used in both indoor and outdoor enclosed lighting fixtures and is guaranteed to have a continuous service life of 40,000 hours.



- HALED Pro delivers exceptional light quality like halogen lamps
- When the brightness is lowered, the light change to warm(2100K) just like a halogen lamp



HALED Optics



Halogen Optics



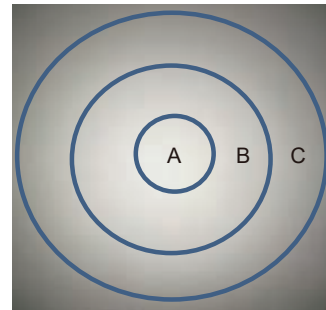
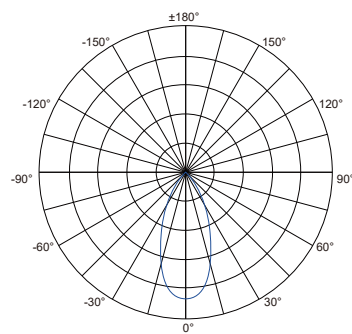
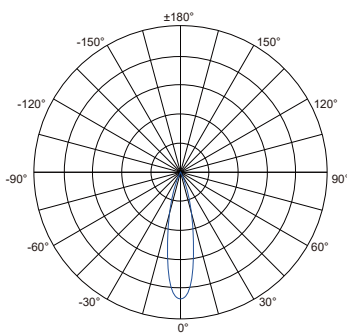
Normal Brand

HALED optical light effect is similar to traditional halogen spots

Dim To Warm & Dimmable

Dimming coefficient: 1-100%

Photometric Information

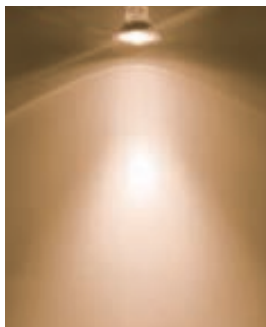


A Intense
B
C Weak

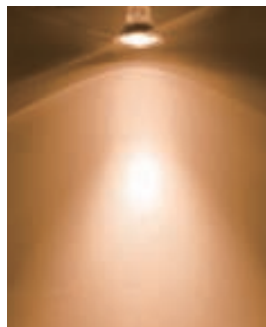
HALED® Product Dim to Warm



2700K Brightness 100%

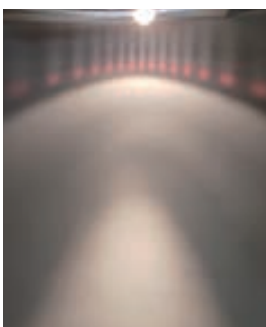


2500K Brightness 50%

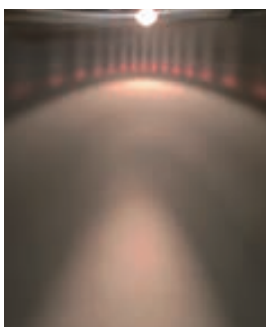


2100K Brightness 20%

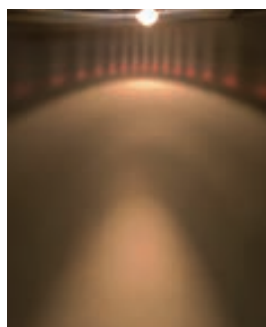
Halogen Lamp Dim to Warm



2700K Brightness 100%



2500K Brightness 50%



2100K Brightness 20%



Dim to warm

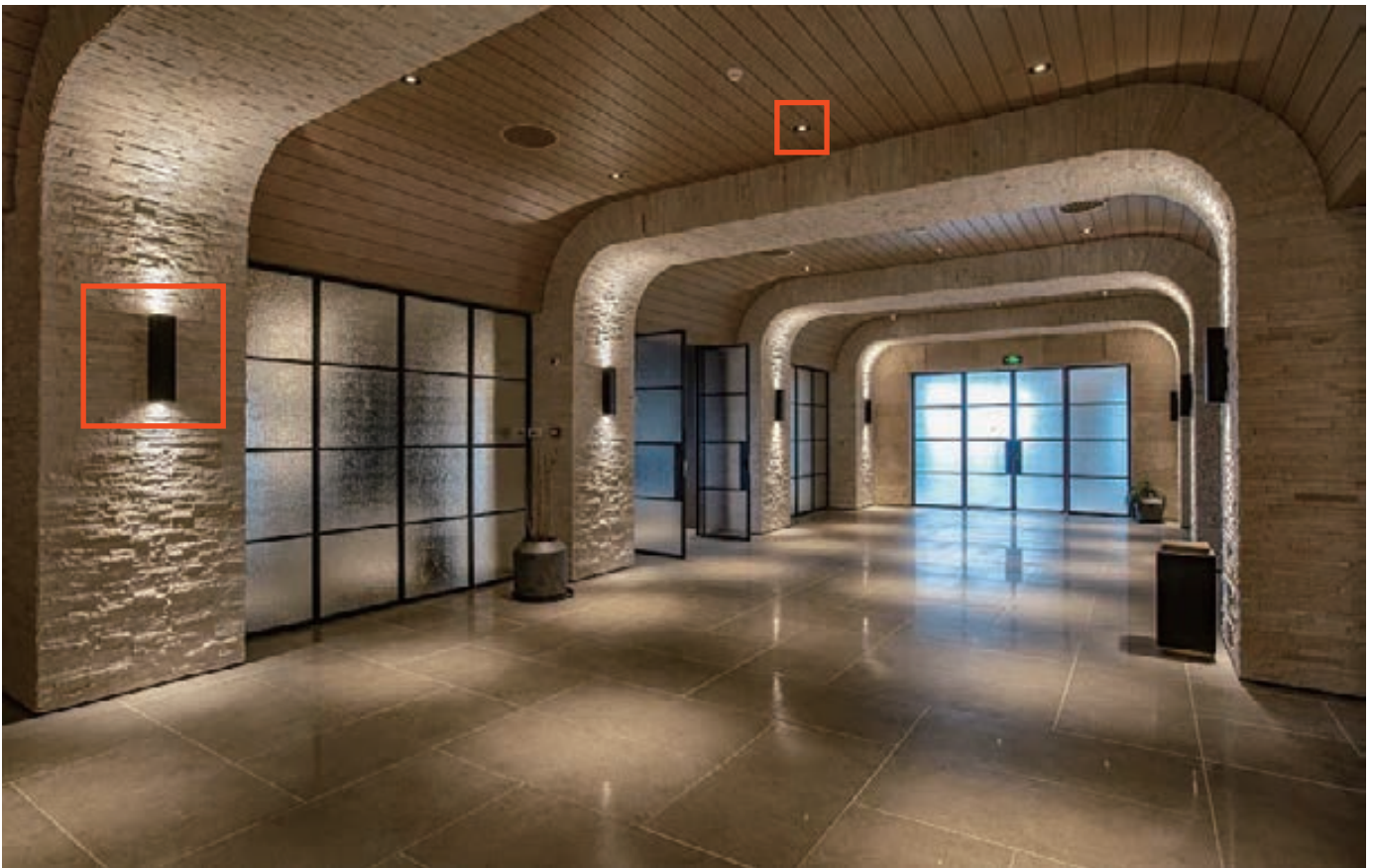


Dimmable

Compatible with both leading-edge and trailing-edge dimming

HALED Pro Application

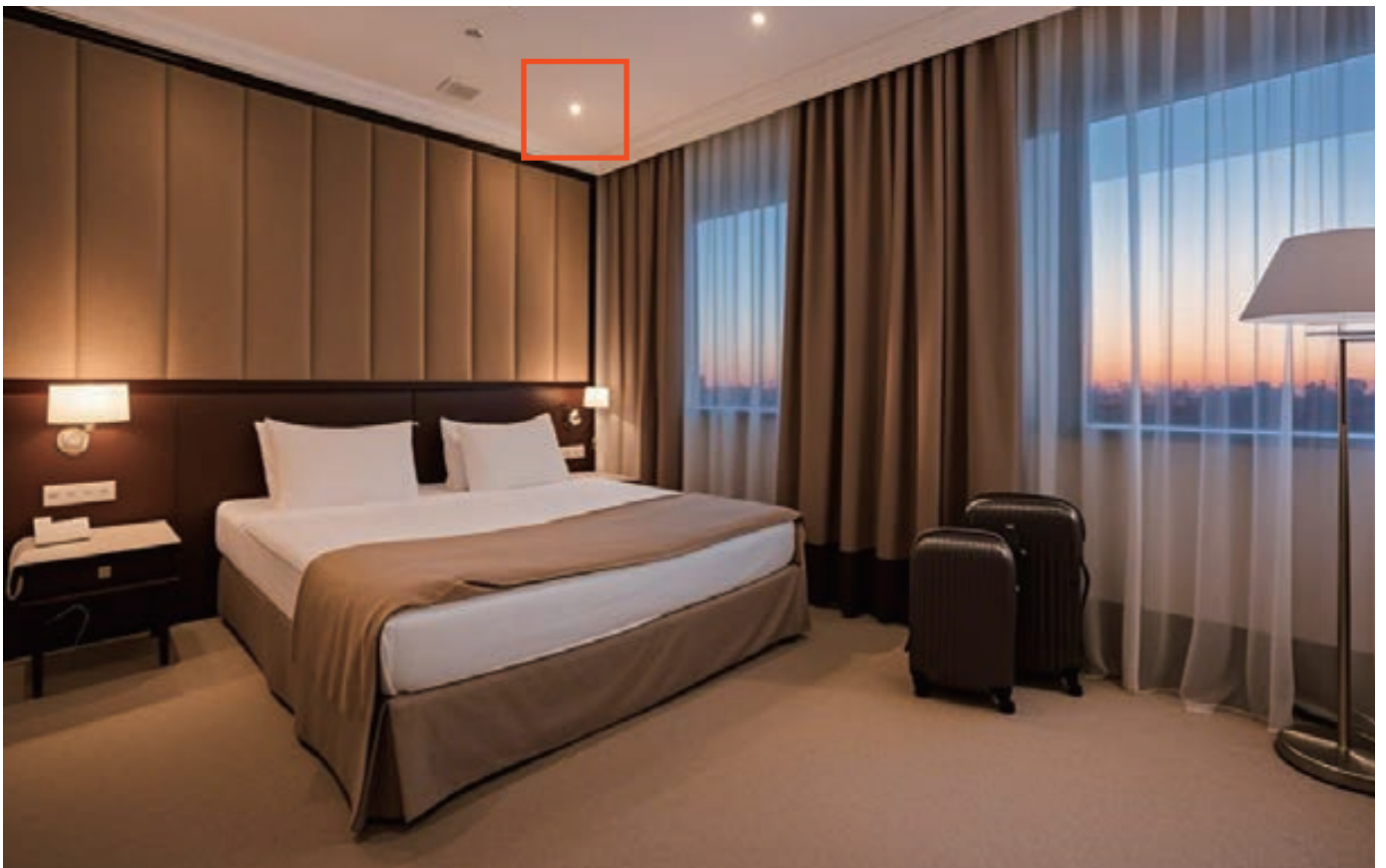
The excellent heat dissipation performance enables it to be used in enclosed lamps, thus expanding its application scope.



36°



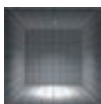
24°



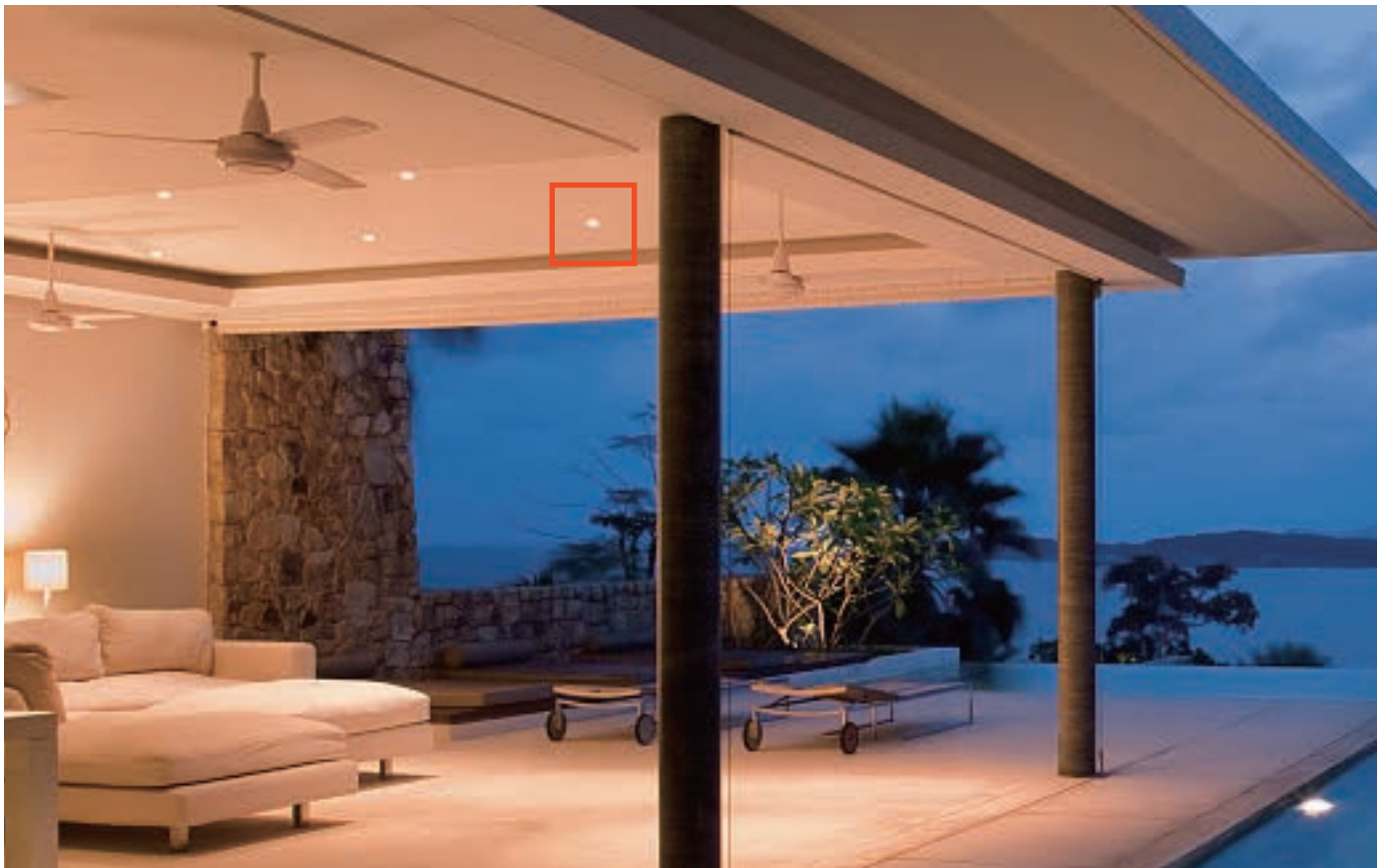
36°



36°



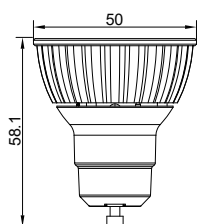
24°



36°

HALED Pro. GU10

Dimmer Type: Triac



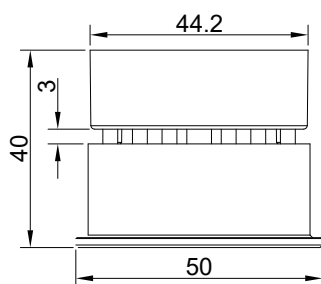
CE RoHS ErP✓



Product	■ GU10	
Wattage	■ 6W	6W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ Dim to Warm	Dimmable
CCT	■ 3000~2000K	2700K/ 3000K
Lumens	■ 500lm	500lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 1650cd/ 1100cd	1800cd/ 1200cd
Life Span	■ 40000hrs	40000hrs

HALED Pro. Module Driver Inside

Dimmer Type: Triac/ DALI



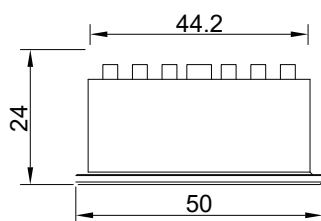
CE RoHS ErP✓



Product	■ Module	
Wattage	■ 6.5W	6.5W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ Dim to Warm	Dimmable
CCT	■ 3000~2000K	2700K/ 3000K
Lumens	■ 540lm	540lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 1800cd/ 1200cd	1950cd/ 1300cd
Life Span	■ 40000hrs	40000hrs

HALED Pro. Module Driver Outside

Dimmer Type: Triac/ DALI



CE RoHS ErP

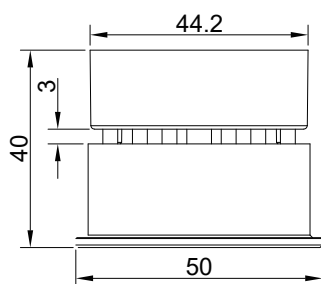
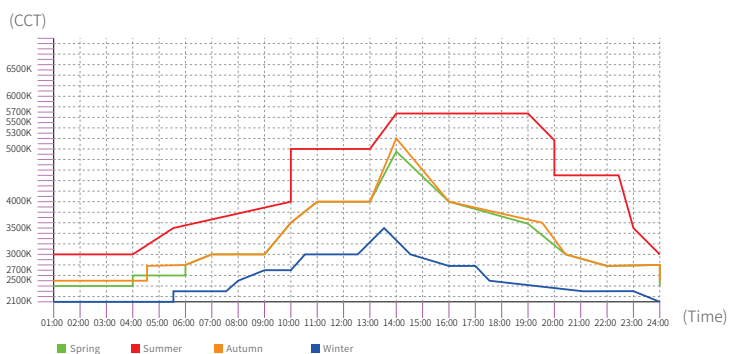


Product	■ Module	
Wattage	■ 8W	8W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ Dim to Warm	Dimmable
CCT	■ 3000~2000K	2700K/ 3000K
Lumens	■ 620lm	620lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2175cd/ 1450cd	2325cd/ 1550cd
Life Span	■ 40000hrs	40000hrs

HALED Pro. Module Driver Outside

Dimmer Type: SUNWHITE&DALI

The CCT curve vaiation in Frankfurt



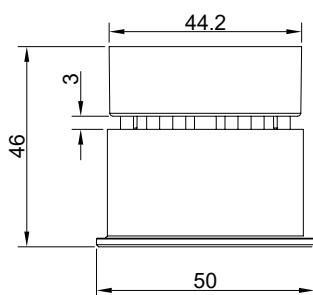
CE RoHS ErP✓



Product	■ Module	
Wattage	■ 8W	8W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ SUNWHITE & Triac	Dimmable & DALI
CCT	■ 2000~4000K	2000~4000K
Lumens	■ 620lm	620lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2175cd/ 1450cd	2175cd/ 1450cd
Life Span	■ 40000hrs	40000hrs

HALED Pro. Module Driver Inside

Dimmer Type: Triac/ DALI



CE RoHS ErP✓

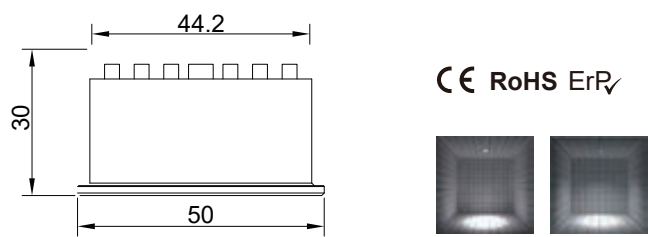


Product	■ Module(Driver Outside)	
Wattage	■ 8W	8W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ Dim to Warm	Dimmable
CCT	■ 3000~2000K	2700K/ 3000K
Lumens	■ 620lm	620lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2175cd/ 1450cd	2325cd/ 1550cd
Life Span	■ 40000hrs	40000hrs

HALED Pro. Module

Driver Outside

Dimmer Type: Triac/ DALI

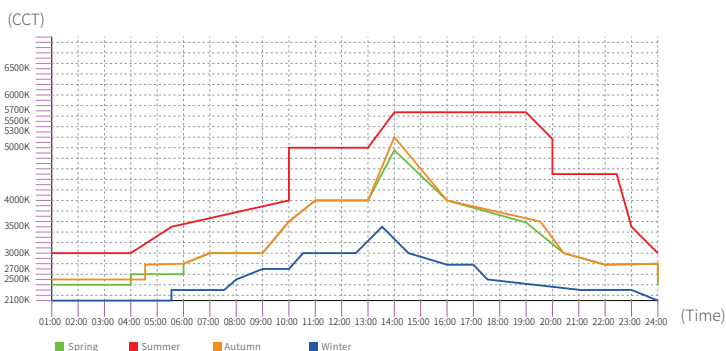


Product	■ Module(Driver Outside)	
Wattage	■ 9.5W	9.5W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ Dim to Warm	Dimmable
CCT	■ 3000~2000K	2700K/ 3000K
Lumens	■ 750lm	750lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2550cd/ 1700cd	2700cd/ 1800cd
Life Span	■ 40000hrs	40000hrs

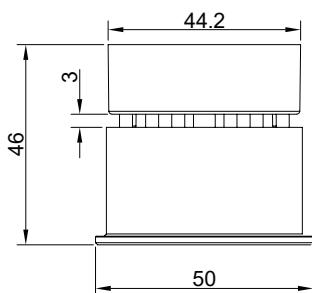
HALED Pro. Module Driver Outside

Dimmer Type: SUNWHITE&DALI

The CCT curve vaiation in Frankfurt



It can be adjusted according to cusuoomer needs.



CE RoHS ErP✓



Product	■ Module(Driver Outside)	
Wattage	■ 9.5W	9.5W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ SUNWHITE& Triac	SUNWHITE& DALI
CCT	■ 2000~4000K	2000~4000K
Lumens	■ 750lm	750lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2550cd/ 1700cd	2550cd/ 1700cd
Life Span	■ 40000hrs	40000hrs

HALED Pro. Downlight

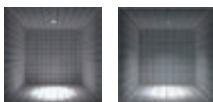
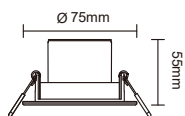
Dimmer Type: Triac/ DALI

Driver Inside

The black module is coated with graphene and can be used in enclosed luminaires.



CE RoHS ErP



Product	■ HALED Pro. Downlight (Driver Outside)	
Wattage	■ 8W	8W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ Dim to Warm	Dimmable
CCT	■ 3000~2000K	2700K/ 3000K
Lumens	■ 620lm	620lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
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HALED Pro. Downlight

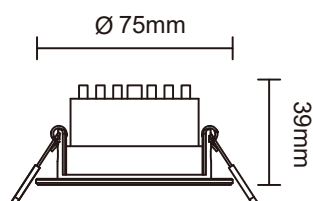
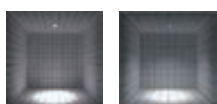
Dimmer Type: Triac/ DALI

Driver Outside

The black module is coated with graphene and can be used in enclosed luminaires.



CE RoHS ErP



Product	■ HALED Pro. Downlight (Driver Inside)	
Wattage	■ 9.5W	9.5W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ Dim to Warm	Dimmable
CCT	■ 3000~2000K	2700K/ 3000K
Lumens	■ 750lm	750lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2550cd/ 1700cd	2700cd/ 1800cd
Life Span	■ 40000hrs	40000hrs

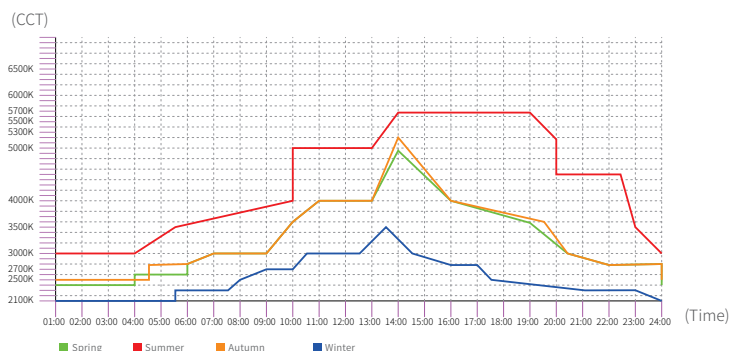
HALED Pro. Downlight

Dimmer Type: Triac/ DALI

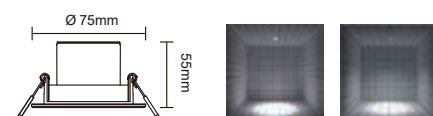
Driver Outside

The black module is coated with graphene and can be used in enclosed luminaires.

The CCT curve variation in Frankfurt



CE RoHS ErP

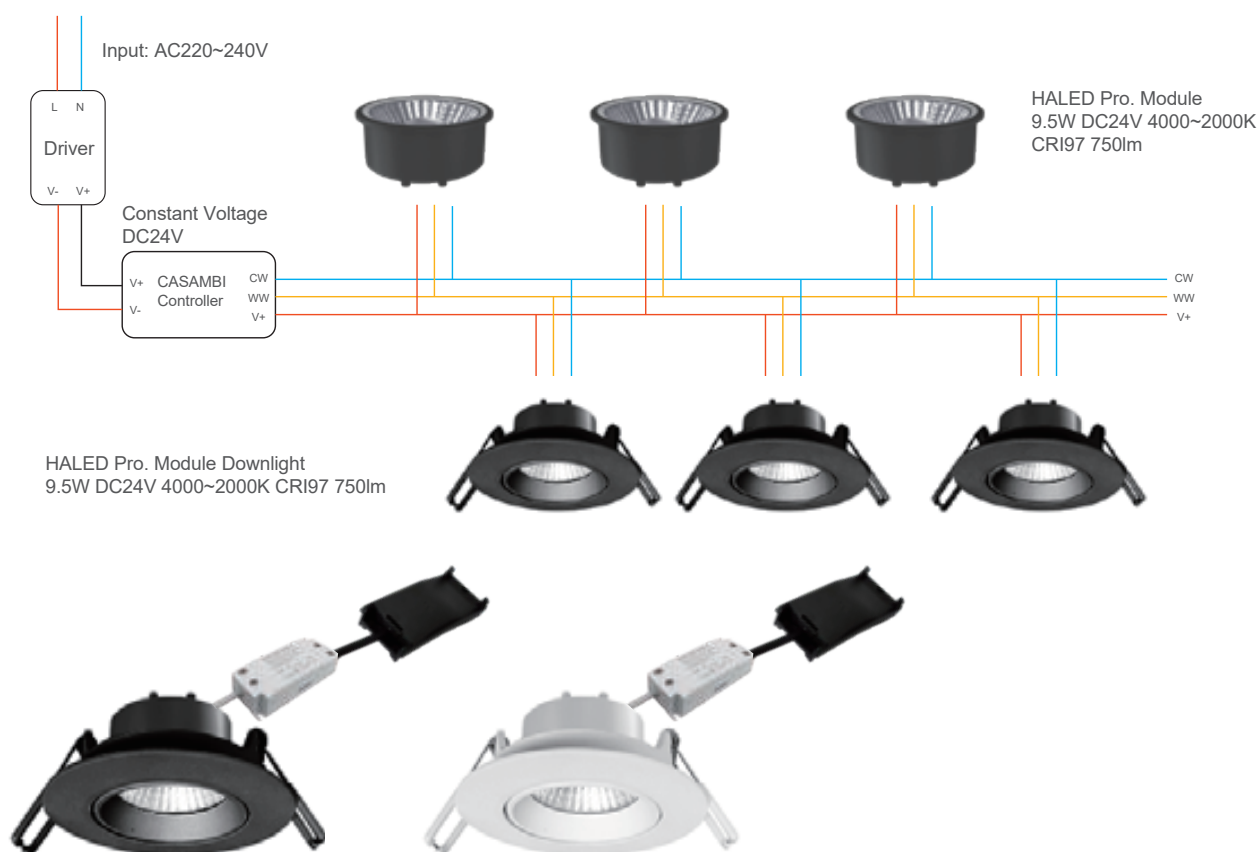


Product	■ HALED Pro. Downlight (Driver Outside)	
Wattage	■ 9.5W	9.5W
Voltage	■ AC200-240V	AC200-240V
Dimmable	■ SUNWHITE& Triac	SUNWHITE& DALI
CCT	■ 2000~4000K	2000~4000K
Lumens	■ 750lm	750lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2550cd/ 1700cd	2550cd/ 1700cd
Life Span	■ 40000hrs	40000hrs

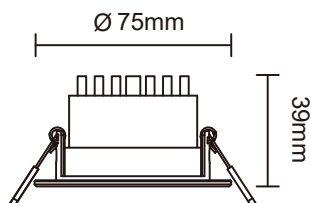
HALED Pro. Module & Module Downlight

Dimmer Type: CASAMBI

Connection diagram



CE RoHS ErP



Product	HALED Pro. Module Downlight	HALED Pro. Module
Wattage	■ 9.5W	9.5W
Constant Voltage	■ AC200-240V	AC200-240V
Current (mA)	■ 330	330
Dimmable	■ Yes	Yes
CCT	■ 2000~4000K	2000~4000K
Lumens	■ 750lm	750lm
CRI	■ 97	97
Beam Angle	■ 24°/ 36°	24°/ 36°
Peak luminous intensity	■ 2550cd/ 1700cd	2550cd/ 1700cd
Life Span	■ 40000hrs	40000hrs



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