

Content

LED HIGH BAY



Industrial

Warehouses
Production halls
Food industry
Parking areas
Farms
Refrigeration rooms



Shop & Retail

Shopping mall
Supermarkets
Retail stores
Food

Architectural

Exhibition center
Library
Art Museum
Concert hall
Museum

APPLICATION

LED UFO HIGH BAY



Industrial

Warehouses
Production halls
Food industry
Parking areas
Farms
Refrigeration rooms



Shop & Retail

Shopping mall
Supermarkets
Retail stores
Food



Architectural

Exhibition center
Library
Art Museum
Concert hall
Museum



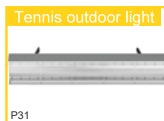
APPLICATION

LED TENNIS LIGHT LED FLOODLIGHT



Industrial

Warehouses
Production halls
Food industry
Parking areas
Farms
Refrigeration rooms



Outdoor

Car parks
Pools
Habor
Port wharf
Gas stations
Bus stations



Stadium

Stadium
Football Stadium
Padel tennis
Badminton
Tennis



APPLICATION

LED HIGH MAST LIGHT



Industrial

Warehouses
Production halls
Food industry
Parking areas
Farms
Refrigeration rooms



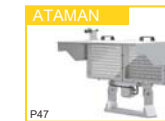
Outdoor

Car parks
Pools
Habor
Port wharf
Gas stations
Bus stations



Stadium

Stadium
Football Stadium



APPLICATION

LED STREET LIGHT



APPLICATION

Outdoor

Car parks
Motor Way
Street
Urban Road

LED GARDEN LIGHT

Garden-N1



P57

Garden-N2



P60

Garden-N3



P61

Garden-N4



P62

Garden-N5



P63

Garden-N6



P65

APPLICATION

Outdoor

- Car parks
- Garden
- Villar
- Urban Road

LED EXPLOSION PROOF

Expert



P67

Excel



P70

Ex-Mega



P71

Ex-Apollon



P72

APPLICATION

Industrial

- Warehouses
- Medicine plant
- Food industry
- Painting store

Outdoor

- Petrol station
- Gas station

LED TRI-PROOF LIGHT

Mongol



P73

Sumo



P77

Amazon II



P80

Pirate



P81

APPLICATION

Industrial

- Warehouses
- Production halls
- Food industry
- Parking areas
- Farms
- Refrigeration rooms

Education

- Classrooms
- Cafeterias
- Auditorium
- Sports halls
- Chemical Lab
- Pools

Outdoor

- Car parks
- Pools
- Airports
- Train stations
- Gas stations
- Bus stations

Shop & Retail

- Shopping mall
- Supermarkets
- Retail stores
- Food

LED GROW LIGHT

Sniper-grow



P83

Foison



P87

APPLICATION

Plant

- Green house
- Indoor grow room
- Tent
- Farming

LED CELLAR LIGHT

Chateau



P89

Mellower



P92

UFO-EL



P93

APPLICATION

Cellar

Redefine Anti-Glaring **UGR <19**

Anti-glaring light is required more and more for applications where people doesn't feel comfortable with the glaring light, especially when the light were not very high. SNIPER is the ideal solution for visual protection. This increases the performance of staff and the quality of their work.

“

The right lighting in the right place is a crucial factor in industry for greater productivity and employee motivation. The effortless managing of visual tasks affects employee performance, the quality of work as well as occupational safety. The spectrum of these requirements is so diverse that generally applicable lighting and only a single correct lighting for workplaces is not possible. All our lightings are therefore developed on the basis of specific characteristics and requirements depending on the respective needs.

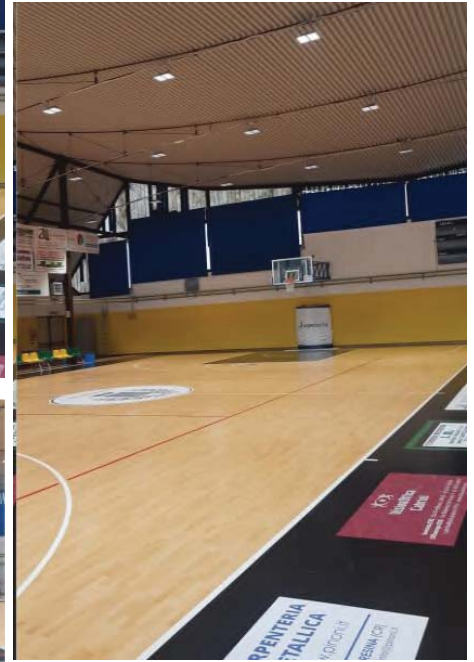


Europe Patent

160LM/W



Project: Indoor Basketball Gym
Location: Italy
Light used: 35pcs Mildbeam 200w



UGR<19



IK 10

● **Advanced UGR technology**

The Optics was specially developed to minimize glare and maximize homogeneity. With an anti-glaring film on the lens and a shield in front, we managed to achieve UGR<19

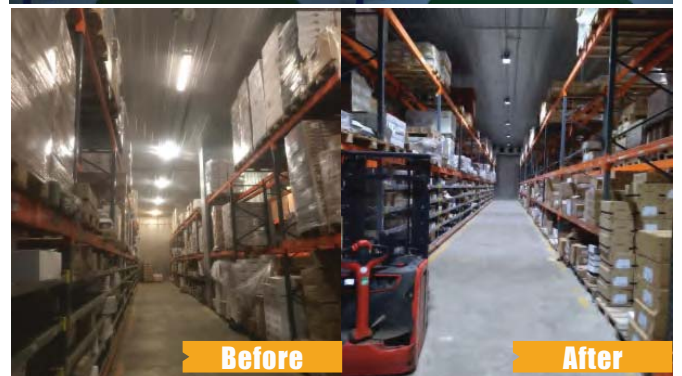
● **Simple installation**

With ceiling installation accessory equipped with mains lead, the two suspension points at the ceiling could be combined to One-Point installation. This saves time and cost for installation. And even vibrations and air movements are no longer able to twist it.



Before

After



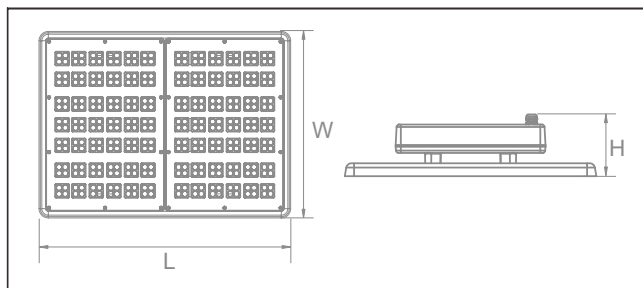
Project: Wall's Warehouse
Location: France
Light used: 89pcs Mildbeam



UGR < 19
IK 10

Features

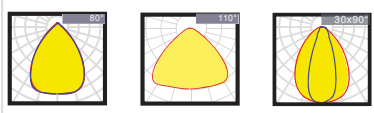
Housing: Pure Aluminum
 Thermal Conductivity: 226 W/m·K
 Led: CREE JK 3030
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell ELG
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP65
 Impact Test: IK10
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>70,000H
 Lifetime: 100,000H



Functions

ZigBee * PWM * DALI * 0/1~10V * Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
SNIPER-N1-60-CM	60W	100~277V	7800LM	>70 (80)	IP65	L362*W257*H120MM
SNIPER-N1-100-CM	100W	100~277V	13000LM	>70 (80)	IP65	L362*W257*H120MM
SNIPER-N2-150-CM	150W	100~277V	19500LM	>70 (80)	IP65	L415*W310*H120MM
SNIPER-N3-200-CM	200W	100~277V	26000LM	>70 (80)	IP65	L487*W362*H120MM
SNIPER-N4-300-CM	300W	100~277V	39000LM	>70 (80)	IP65	L720*W365*H130MM





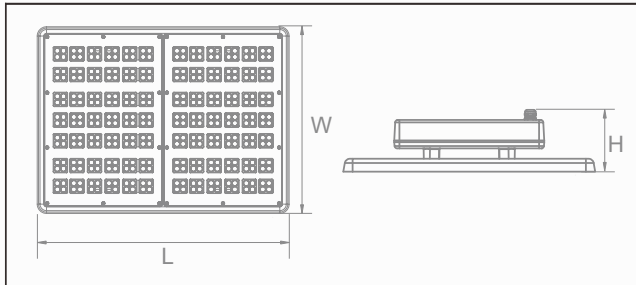
RoHS compliant



160LM/W

Features

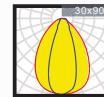
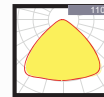
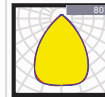
Housing: Pure Aluminum Thermal
 Conductivity: 226 W/m·K
 Led: CREE JK 3030
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Osram
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK10
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>70,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



160lm/w

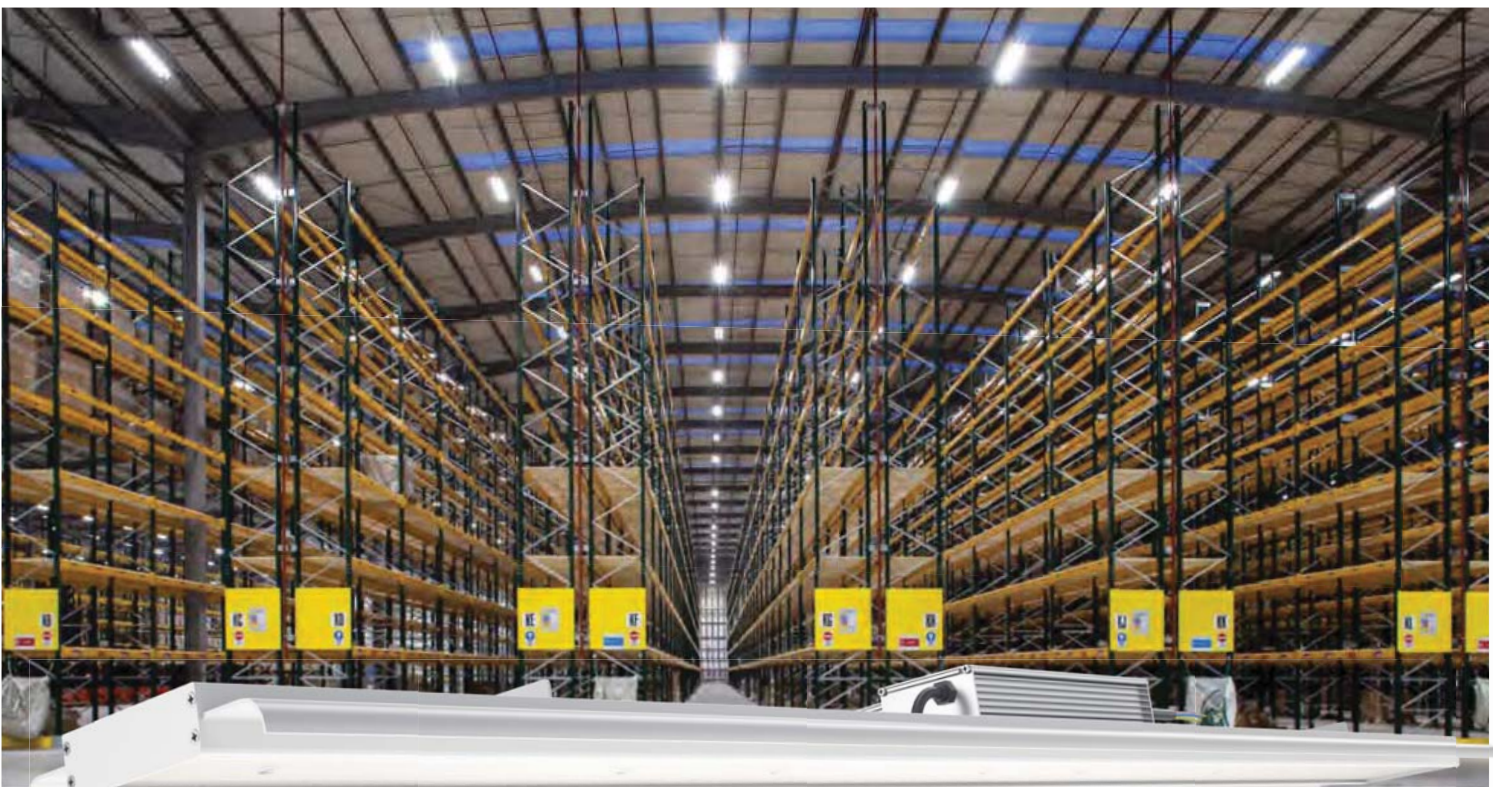
5 YEARS WARRANTY

Osram Driver

CREE LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
SNIPER-N1-60-CO	60W	220~240V	9600LM	>70(80)	IP65	L362*W257*H120MM
SNIPER-N1-100-CO	100W	220~240V	16000LM	>70(80)	IP65	L362*W257*H120MM
SNIPER-N2-120-CO	120W	220~240V	19200LM	>70(80)	IP65	L415*W310*H120MM
SNIPER-N3-150-CO	150W	220~240V	24000LM	>70(80)	IP65	L487*W362*H120MM
SNIPER-N3-200-CO	200W	220~240V	32000LM	>70(80)	IP65	L487*W362*H120MM
SNIPER-N4-300-CO	300W	220~240V	48000LM	>70(80)	IP65	L720*W365*H130MM
SNIPER-N4-360-CO	360W	220~240V	57600LM	>70(80)	IP65	L720*W365*H130MM





Born for Warehouse

The **Batman** series linear high bay delivers best-in-class efficiency (170 Lm/W), durability and versatility, resulting in significant energy savings . It comes standard with suspension cables, making it an easy upgrade from suspended fluorescent fixtures, but can also be pendant or surface mounted.

Special lens and PCB design are used for our **Batman** Linear high bay light. Those make the light perfect straight line which provides good appearance and lower glaring light distribution. It is designed specially for warehouse. The rectangle shape light distribution saves 50% energy in comparison with standard highbay light which 50% of the light was wasted on the top of shelves.



Before



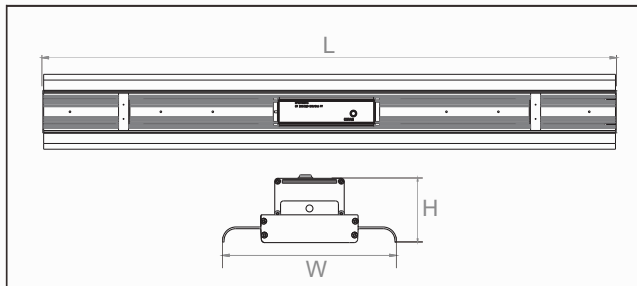
After

 **Project:** Warehouse
Location: Spain
Light used: 225pcs *Batman* 150W



Features

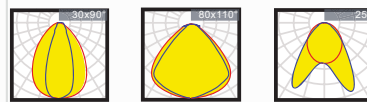
Housing: Pure Aluminum A6063
 Thermal Conductivity: 226 W/m·K
 Led: Cree
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Osram
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP54
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 Tm21: L90B10>70,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave · PIR

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
BTM-100-CS	100W	100~277V	17000LM	>70 (80)	IP54	L577*W150*H55.2MM
BTM-150-CS	150W	100~277V	25500LM	>70 (80)	IP54	L862*W150*H55.2MM
BTM-200-CS	200W	100~277V	34000LM	>70 (80)	IP54	L1148*W150*H55.2MM



200
LM/W



With Plug-in Sensor

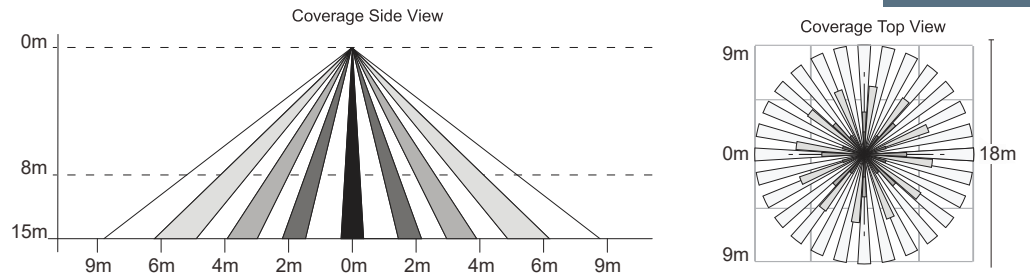
The **Apache G2** series High bay light is an affordable direct replacement for HID fixtures that delivers an immediate reduction in energy costs while improving the consistency and quality of light within a space. Certified with TUV as standard, this luminaire delivers up to 200 **Lm/W**. Various lens packages are available, offering the perfect solution to your specific application.



Project: PIPELIFE Factory
Location: Ireland
Light used: 80pcs 150W



Coverage



“ Demonstration:

Target-time: 10min
Setpoint on:50lux
Setpoint off:300lux
Waiting Level:50%
Waiting Time: 30mins
Background Level: 10%
Background Time: +∞

Target time

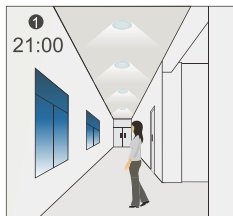
Refers to the time period the lamp remains at 100% illumination after no motion detected.

Waiting Time

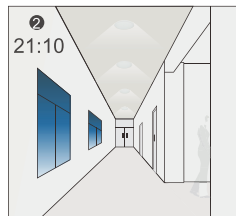
Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

Waiting Level

The low light level you would like to have after the hold time in the long absence of people



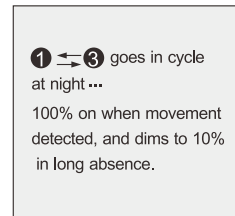
1
21:00
The light switches on at 100% when there is movement detected.



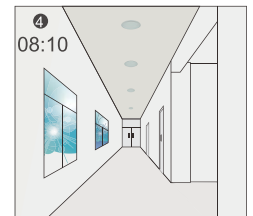
2
21:10
The light dims to 50% waiting level after the hold-time.



3
21:40
The light remains in 10% low dimming level at night.



1 ↔ 3 goes in cycle at night...
100% on when movement detected, and dims to 10% in long absence.



4
08:10
When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied.

NOTE: Factory Default Setting:

Detection range: 100%
Target Level time: 10mins
Daylight sensor: off
Waiting level: 50%
Waiting level time : 30mins
Background level: 0%

More Energy Saving



LEDesta

VS

OTHERS

More energy saving lighting products are strongly required day by day. Customers pay more attention to the cost saving in the long term run. Not only higher brightness is a key, but also smart control will save more energy automatically. Our Plug-in sensor UFO is the ideal solution to meet customers' need. 200lm/w brightness will save half energy than other competitors, and also the plug-in sensor option will save 40%-60% energy.

Manufacturer	ours	others
Power	120w	200w
Brightness	24000lm	24000lm
Comsumption per month (6H/D, 20D/M)	14.4 kwh	24 kwh
Constant illuminance saving (day light and micro-wave sensor)	40%-60%	non
Electric charge	0.305\$/kwh	0.305\$/kwh
Device used	100pcs	100pcs
Electric charge per month	\$263.52	\$732.00
Electric charge in 5 years	\$15,811.20	\$43,920.00



RoHS compliant



LM 79

LM 80

TM 21

Apache G1
LED High Bay

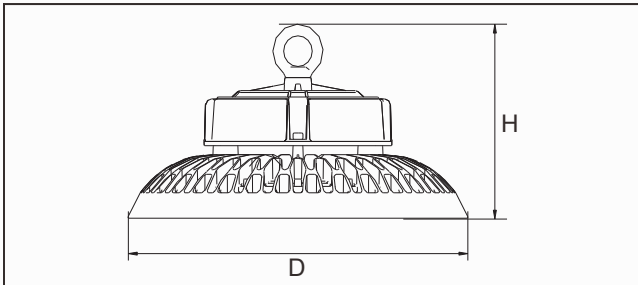
Series



200LM/W

Features

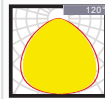
Housing: Die-cast Aluminum ADC12
 Thermal Conductivity: 96 W/m·K
 Led: Sanan led
 CRI: Ra>70 (80&90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 4KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 TM21: L90B10>70,000H
 Lifetime: 100,000H



Functions

ZigBee+Micro-wave+PIR+Daylight

Optical options:



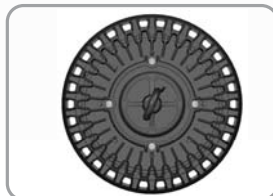
200lm/w

5 YEARS WARRANTY

Sosen Driver

Sanan LED

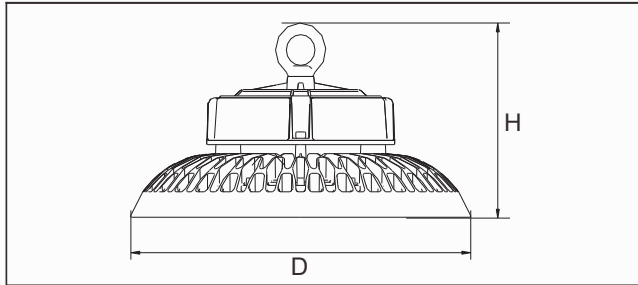
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
APCH-UFO-100-SSS	100W	100~277V	20000LM	>70 (80)	IP65	D290*H174MM
APCH-UFO-120-SSS	120W	100~277V	24000LM	>70 (80)	IP65	D340*H181MM
APCH-UFO-150-SSS	150W	100~277V	30000LM	>70 (80)	IP65	D340*H181MM
APCH-UFO-200-SSS	200W	100~277V	40000LM	>70 (80)	IP65	D380*H183MM





Features

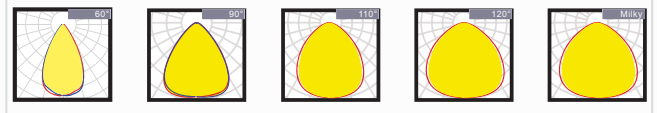
Housing: Die-cast Aluminum ADC12
 Thermal Conductivity: 96 W/m·K
 Led: Cree led
 CRI: Ra>70 (80&90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell HBG
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 TM21: L90B10>70,000H
 Lifetime: 100,000H



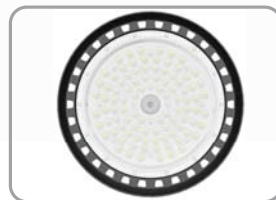
Functions

ZigBee • PWM • DALI • 0/1~10V • Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
APCH-UFO-100-CM	100W	100~277	15000LM	>70 (80)	IP65	D250*H178MM
APCH-UFO-120-CM	120W	100~277	18000LM	>70 (80)	IP65	D300*H181MM
APCH-UFO-150-CM	150W	100~277	22500LM	>70 (80)	IP65	D300*H181MM
APCH-UFO-200-CM	200W	100~277	30000LM	>70 (80)	IP65	D345*H183MM
APCH-UFO-240-CM	240W	100~277	36000LM	>70 (80)	IP65	D345*H183MM





With Plug-in Sensor

With plug in sensor and different function options such as PIR sensor, micro-wave sensor, Zigbee +sensor, etc, our Apache series UFO is the ideal solution to lower inventory, faster stock turnover, cost saver, and more options for end user. It not only lowers the purchasing cost, but also increases customers' competitive advantage.

Sensor Options

Zigbee
Micro-wave Sensor

Zigbee
PIR Sensor

Zigbee
Daylight Sensor

Micro-wave
& Daylight

Zigbee
Micro-wave + Daylight

PIR
& Daylight

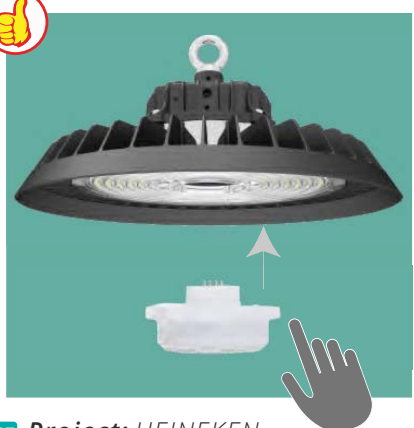
Zigbee
PIR + Daylight

Daylight Sensor



Easy = Money saving

To compare with the sensor highbay and Zigbee control in the market, our light is more easy to use, more flexible, and easy installation. This not only lowers the label cost, but also makes marketing more easier and provides more options for end users.



Project: HEINEKEN
Location: Ireland
Light used: 220pcs 150w



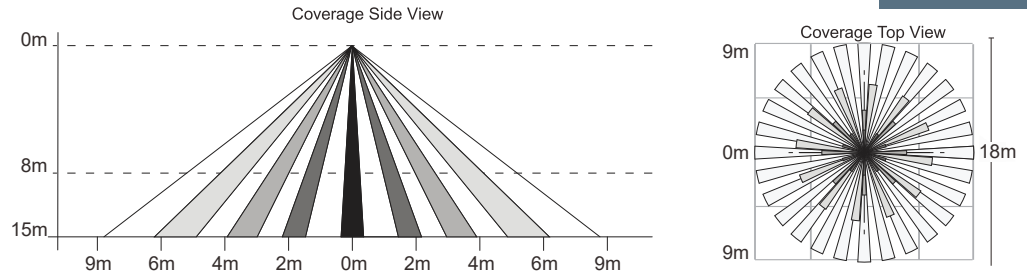
Before



After



Coverage



“ Demonstration:

Target-time: 10min
Setpoint on:50lux
Setpoint off:300lux
Waiting Level:50%
Waiting Time: 30mins
Background Level: 10%
Background Time: +∞

Target time

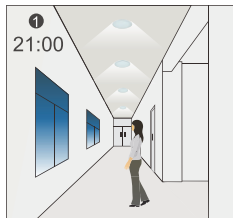
Refers to the time period the lamp remains at 100% illumination after no motion detected.

Waiting Time

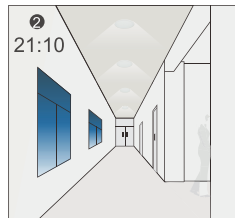
Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

Waiting Level

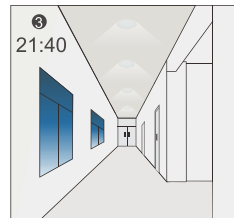
The low light level you would like to have after the hold time in the long absence of people



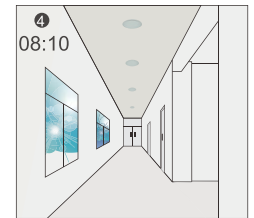
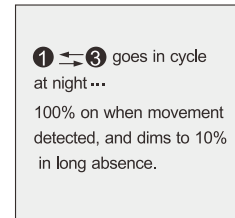
The light switches on at 100% when there is movement detected.



The light dims to 50% waiting level after the hold-time.



The light remains in 10% low dimming level at night.



When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied.

NOTE: Factory Default Setting:

Detection range: 100%
Target Level time: 10mins
Daylight sensor: off
Waiting level: 50%
Waiting level time : 30mins
Background level: 0%

More Energy Saving



LEDesta

VS

OTHERS

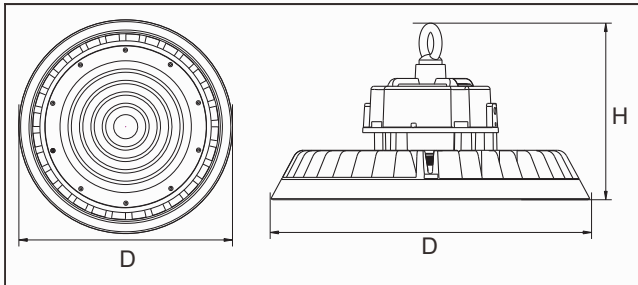
More energy saving lighting products are strongly required day by day. Customers pay more attention to the cost saving in the long term run. Not only higher brightness is a key, but also smart control will save more energy automatically. Our Plug-in sensor UFO is the ideal solution to meet customers' need. 200lm/w brightness will save half energy than other competitors, and also the plug-in sensor option will save 40%-60% energy.

Manufacturer	ours	others
Power	150w	200w
Brightness	22500lm	24000lm
Comssumption per month (6H/D, 20D/M)	18.0 kwh	24 kwh
Constant illuminance saving (day light and micro-wave sensor)	40%-60%	non
Electric charge	0.305\$/kwh	0.305\$/kwh
Device used	100pcs	100pcs
Electric charge per month	\$329.40	\$732.00
Electric charge in 5 years	\$19,764.00	\$43,920.00



Features

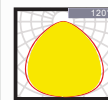
Housing: Die-cast
 Thermal Conductivity: 96 W/m·K
 Led: Philips
 CRI: Ra>80 (90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 4KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 TM21: L80B10>70,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · 0/1~10V · Micro-wave

Optical options:



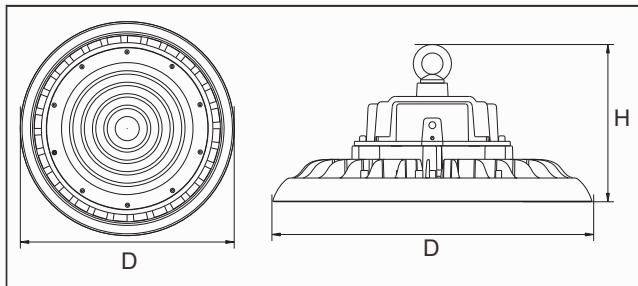
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
APCH-UFO-100-PSS	100W	100~277V	15000LM	>80	IP65	Φ258*139mm
APCH-UFO-150-PSS	150W	100~277V	22500LM	>80	IP65	Φ299*139mm
APCH-UFO-200-PSS	200W	100~277V	30000LM	>80	IP65	Φ347*142mm





Features

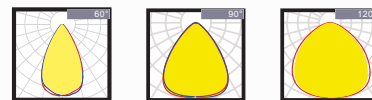
Housing: Die-cast
 Thermal Conductivity: 96 W/m·K
 Led: Philips
 CRI: Ra>80 (90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 4KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 TM21: L80B10>70,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · 0/1~10V · Micro-wave

Optical options:



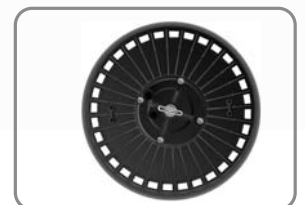
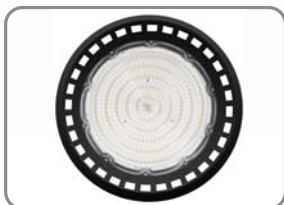
130lm/w

5 YEARS WARRANTY

Sosen Driver

Philips LED

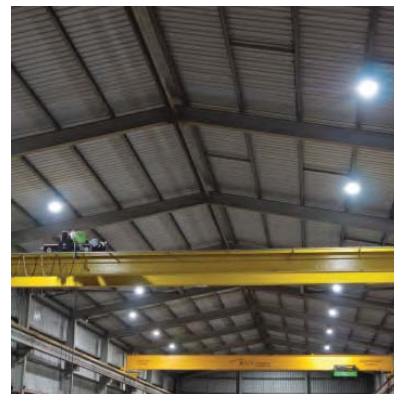
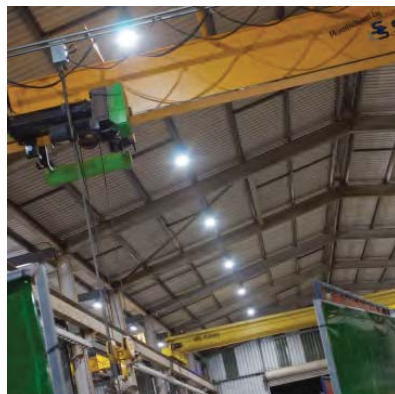
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
APCH-UFO-100-PS	100W	100~277V	13000LM	>80 (90)	IP65	D258*H139MM
APCH-UFO-150-PS	150W	100~277V	19500LM	>80 (90)	IP65	D299*H139MM
APCH-UFO-200-PS	200W	100~277V	26000LM	>80 (90)	IP65	D347*H142MM





“

Terminator series high bay LED provides operators with a powerful energy efficient LED alternative to traditional high maintenance fixtures. It allows the fixture to provide a brilliant 150lm/w high quality light. The advanced LED technology allows this unit to boast an excellent 50,000+ hour rated lifespan with a CRI of 80. Thanks to the cold-forging technique, which offers the best heat dissipation that helps to enhance the lamp's thermal resistance.

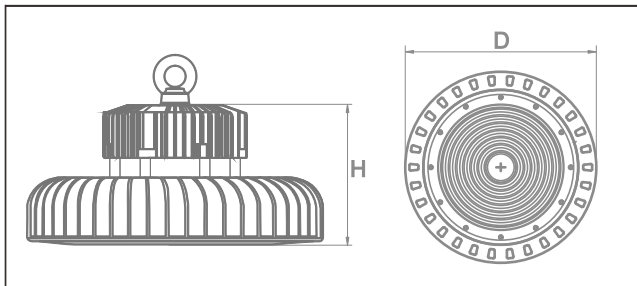


Project:
Factory
Location:
UK
Light used:
60pcs 150w



Features

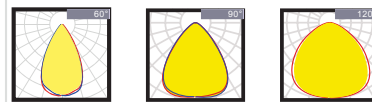
Housing: Cold Forging A1070
 Thermal Conductivity: 226 W/m·K
 Led: Philips
 CRI: Ra>80 (90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 Tm21: L80B10>70,000H
 Lifetime: 100,000H



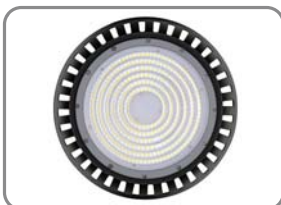
Functions

ZigBee · PWM · 0/1~10V · Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
TRMNTR-UFO-100-PM	100W	100~277	15000LM	>80	IP65	D200*H192MM
TRMNTR-UFO-120-PM	120W	100~277	18000LM	>80	IP65	D260*H187MM
TRMNTR-UFO-150-PM	150W	100~277	22500LM	>80	IP65	D260*H187MM
TRMNTR-UFO-200-PM	200W	100~277	30000LM	>80	IP65	D320*H187MM
TRMNTR-UFO-240-PM	240W	100~277	36000LM	>80	IP65	D320*H187MM
TRMNTR-UFO-300-CM	300W	100~277	45000LM	>80	IP65	D320*H280MM

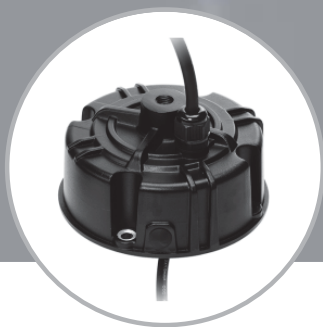




To buy a good quality but low price high bay light, our spider is the best option. Sosen driver and Philips led are used to guarantee high quality and 5 years warranty. Die-cast housing and perfect design enhance user experience. Not only 5 years warranty is offered, but also lumen maintenance after 50,000hours is up to 80%. It is always a good value for money.



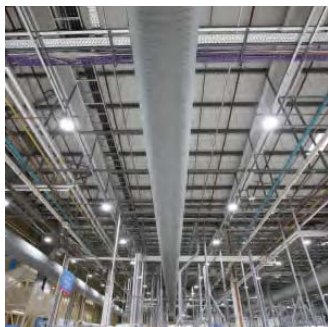
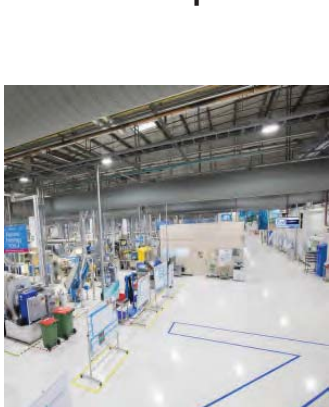
Philips LED



Sosen Driver



Cold Forging heatsink

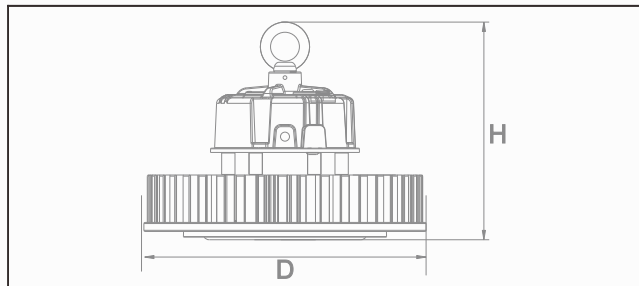


Project: Factory
Location: Ireland
Light used: 430pcs 200W



Features

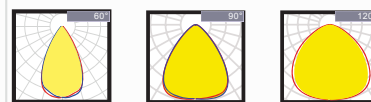
Housing: Cold Forging A1070
 Thermal Conductivity: 226 W/m·K
 Led: Philips
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 4KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60
 Tm21: L80B10>50,000H
 Lifetime: 50,000H



Functions

ZigBee · PWM · 0/1~10V · Micro-wave

Optical options:



130lm/w

5 YEARS WARRANTY

Sosen Driver

Philips LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
SPDR-UFO-100-PS	100W	100~277V	13000LM	>70 (80)	IP65	D250*H172MM
SPDR-UFO-150-PS	150W	100~277V	19500LM	>70 (80)	IP65	D250*H191MM
SPDR-UFO-200-PS	200W	100~277V	26000LM	>70 (80)	IP65	D280*H200MM






Soft light



Low Glaring



Low glaring light is required more and more for applications of indoor stadium where people doesn't feel comfortable with the glaring light, especially when they smash the ball up into the air. Our tennis light is the ideal solution. It not only enhances the performance of players, but also the atmosphere of the match.



Soft light, low glaring

TENNIS COURT LIGHT



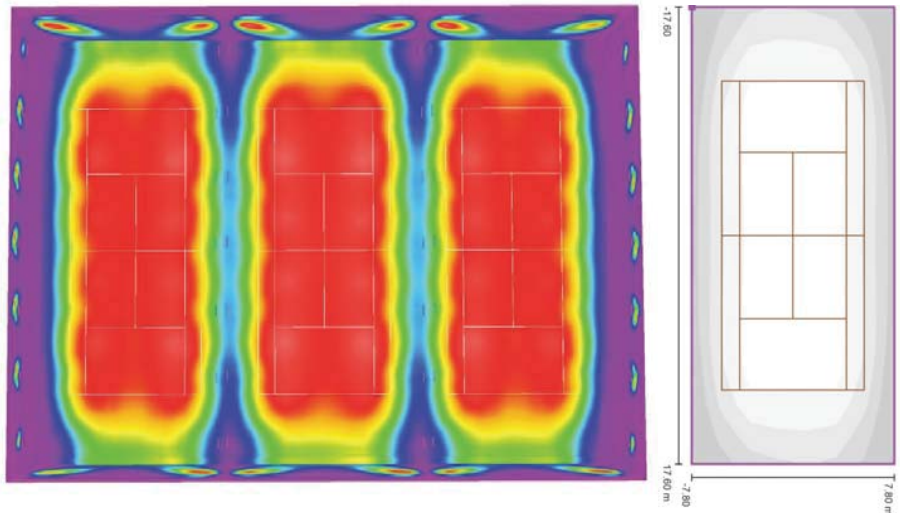
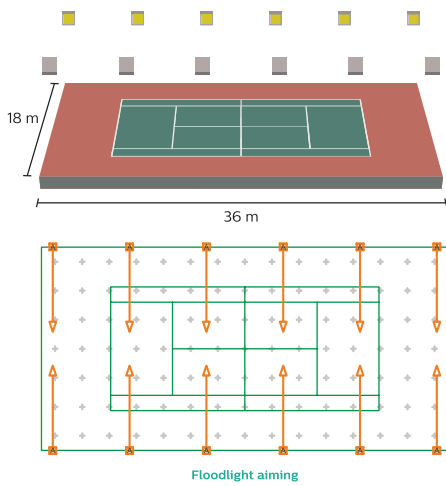
Perfect for indoor tennis court

Our design team work to achieve optimum uniformity and maximum lux levels by using tailored lights, lenses and reflecting system to provide the correct distribution of light for your courts and the very gentle eye-friendly light for players. Reflector is available to be re-directed to ensure the light angles are correct and the best possible combination quality and quantity of light is achieved.



Invisible upward light source design makes player won't see direct light, so that the glare is much lower. Reflecting structure can be adjusted to suitable light curve to maximize light uniformity and performance for different installation height and play field.

Tennis Court Simulation



E_{av} [lx]
729

E_{min} [lx]
595

E_{max} [lx]
809

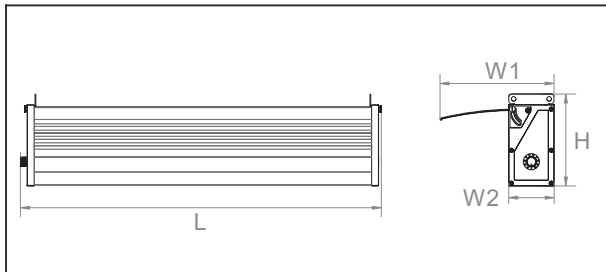
$u0$
0.816

E_{min} / E_{max}
0.736



Features

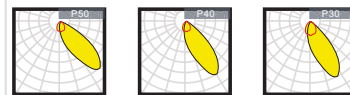
Housing: Pure Aluminum
 Thermal Conductivity: 226 W/m·K
 Led: Philips
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Inventronic
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP54
 Impact Test: IK10
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~+50°C
 Tm21: L90B10>50,000H
 Lifetime: 100,000H



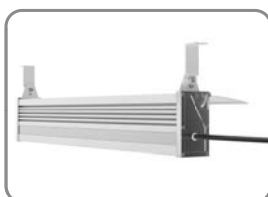
Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
SL-L600-150W-PI	150W	100~277V	20250LM	>80	IP54	538*212/84*171
SL-L800-240W-PI	240W	100~277V	32400LM	>80	IP54	838*212/84*171



Outdoor Tennis Court Lighting



BEFORE

AFTER



Thanks to the specially designed linear asymmetric optics, our tennis court light has advanced advantage in comparison with traditional flood light. The light is more soft and uniformity is highly improved.

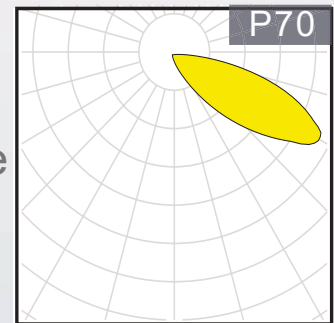




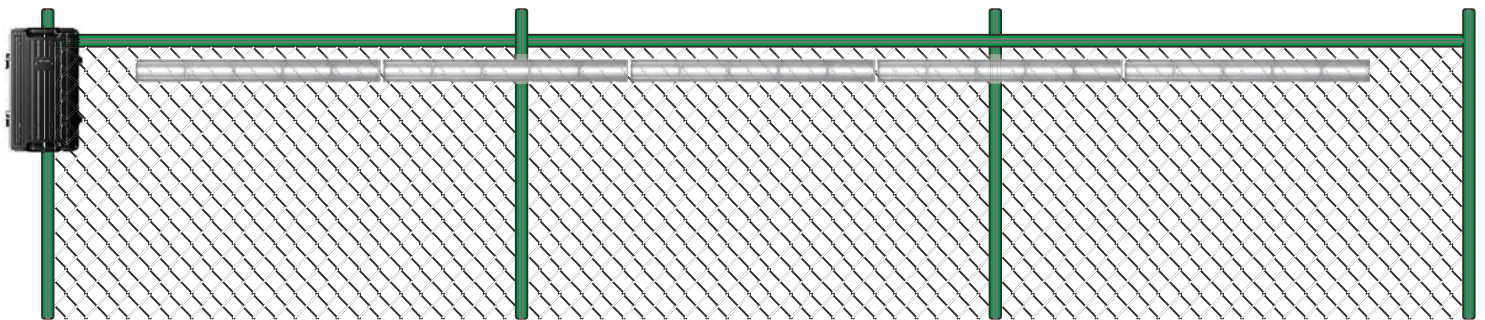
One Line Light Design

Special lens and PCB design is used for our Linear light. It makes the light perfect straight line. Good appearance and light distribution are very good selling points.

Polarized light output from reflecting structure offers best uniformity and lux.



Easy Installation and maintenance
More saves on labor cost and material cost



No need poles



No need machine



No need engineers

CE RoHS compliant LM 79 LM 80 TM 21



Features

Housing: Pure Aluminum
 Thermal Conductivity: 226 W/m·K
 Led: Philips
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Inventronic
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
TCL-100TE5J-PI	max 100W	100~277V	18000LM	>80	IP65	1439*85*45.5



ADMIRAL 11 Series

Available in various power fitted with efficient LEDs from international brand Philips and powered by Sosen driver, our **Admiral 11** series LED Flood Lights offer the users not only superior quality of lighting exteriors, but also a supreme reliability. With the optical lens and uniform photometric distribution, this LED lighting series achieves high optical efficiency. Thanks to a robust aluminium housing with safety glass cover, the floodlights are ideal for outdoor flood lighting applications, such as wall mounted around building facade, buildings as well as lighting gardens, paths near to buildings, garages, and entrance ways.



Plug-In
Sensor



**Standard
Flood light**



10 secs

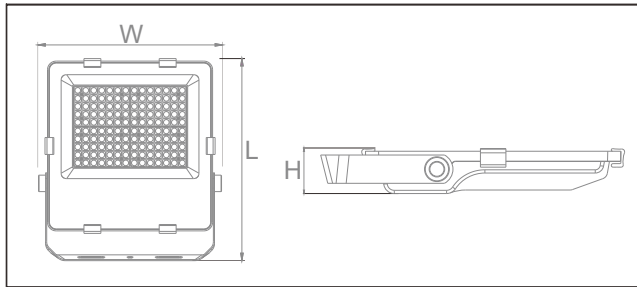


**Sensor
Flood Light**



Features

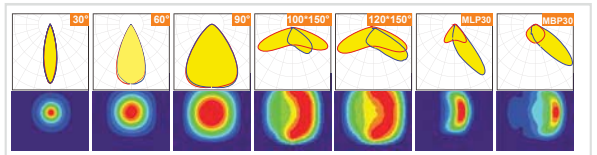
Housing: Die-cast Aluminum ADC12
 Thermal Conductivity: 96 W/m·K
 Led: Philips
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 4KV
 Waterproof: IP66
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L80B10>50,000H
 Lifetime: 100,000H



Functions

DALI · 0/1~10V · Micro-wave · PIR

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
AD11-N1-10-PT	10W	100~277V	1500LM	>70	IP66	L232*W204*H53MM
AD11-N1-20-PT	20W	100~277V	3000LM	>70	IP66	L232*W204*H53MM
AD11-N1-30-PT	30W	100~277V	4500LM	>70	IP66	L232*W204*H53MM
AD11-N2-50-PT	50W	100~277V	7500LM	>70	IP66	L280*W245*H53MM



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
AD11-N3-100	100W	100~277V	15000LM	>70	IP66	L292*W246*H53MM
AD11-N4-150	150W	100~277V	22500LM	>70	IP66	L336*W264*H53MM
AD11-N5-200	200W	100~277V	30000LM	>70	IP66	L407*W328*H53MM
AD11-N5-240	240W	100~277V	36000LM	>70	IP66	L407*W328*H53MM
AD11-N6-300	300W	100~277V	45000LM	>70	IP66	L496*W411*H65MM
AD11-N6-400	400W	100~277V	60000LM	>70	IP66	L496*W411*H65MM



ADMIRAL 21

LED Flood Light



Construction

- Die-cast aluminum housing.
- Unique patented IP68 LED light engines.
- Whole structure heating dissipation design with best thermal conduction and radiation.
- Tempered glass cover available as optional choice.
- IP67 rated luminaire. IP66 with the glass cover.

Distribution

- Ergonomic and dedicated lighting distributions.

Mounting

- Bracket adjustable within $\pm 60^\circ$.

Finishing Colors

	Gray		Black
	White		Blue

AD21C/D/E Tempered Glass Cover

Applications

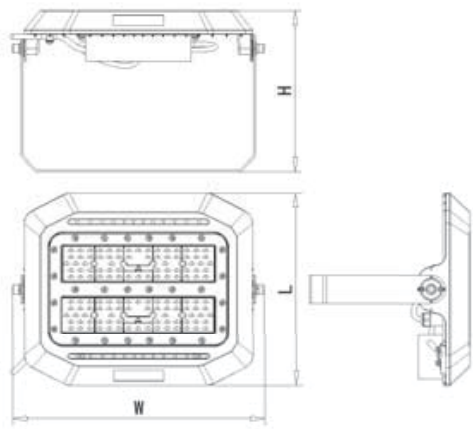
- Sports facilities (stadium, football field, golf course...)
- Traffic arteries (airport, crossroad...)
- Advertisement (wall, billboard...)





Features

Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: Luxeon
 CRI: Ra>70
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Moso
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP67
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -40~50 °C
 Tm21: L80B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave · PIR

Optical options:

163-170 lm/W 5 YEARS WARRANTY Moso Driver Luxeon LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
AD21-N1-40	40W	100~277V	6520LM	>70	IP67	L360*W262*H55MM
AD21-N1-60	60W	100~277V	9000LM	>70	IP67	L360*W262*H55MM
AD21-N2-80	80W	100~277V	14000LM	>70	IP67	L400*W262*H55MM
AD21-N2-100	100W	100~277V	17000LM	>70	IP67	L453*W326*H55MM
AD21-N2-120	120W	100~277V	19560LM	>70	IP67	L453*W326*H55MM
AD21-N3-150	150W	100~277V	25500LM	>70	IP67	L585*W420*H70MM
AD21-N3-180	180W	100~277V	29340LM	>70	IP67	L585*W420*H70MM
AD21-N4-240	240W	100~277V	39120LM	>70	IP67	L585*W420*H70MM



Redefine Anti-Glaring



UGR
<21

Anti-glaring light is required more and more for applications where people doesn't feel comfortable with the glaring light, especially in stadium. **Admiral 31** series floodlight is the ideal solution for visual protection.



Wire Through
With buckle design, the fixture can be opened very easily to rewire inside by terminal. This will make installation much easier and cost saved.



Tempered Glass
With IK08 protected tempered glass, our flood light has better performance for outdoor usage.




IK 10
Stainless steel mesh protection is used to reach more than IK10 against ball hit. It is necessary for application of low height mask.



PMMA Lens
PMMA offers resistance to UV and visible radiations. In comparison with PC lens, PMMA lens can be used outdoor directly to sunshine, and will not turn yellow even after 5 years.



Solution for small stadium

 **Project:** Tennis Court
Location: China **Light used:** 48pcs 300W

“

To ensure that every match and show can be performed smoothly, and to assist operatives to remain live broadcast, the right lighting solution is indispensable. For appropriate lighting intensities with wide-area, homogeneous illumination, optimum colour rendering and dimmability in every situation and for every activity.

The Optics was specially developed to minimize glare and maximize homogeneity. With an anti-glaring film on the lens and a shield in front, we managed to achieve $UGR < 21$



 **Project:**
Indoor stadium

Location:
Italy

Light used:
24pcs



CE RoHS compliant

LM 79

LM 80

TM 21

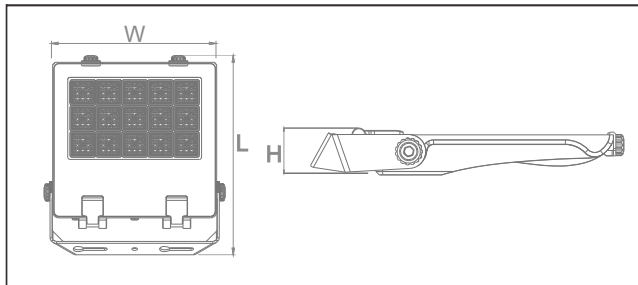
Admiral 31
LED Stadium Light Series



Features

Housing: Die-cast Aluminum ADC 12
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK3030
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP66
 Impact Test: IK08 & IK10
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H

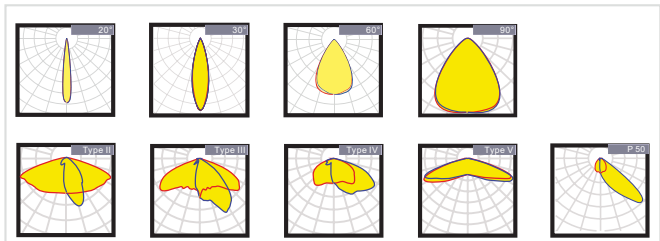
UGR<21



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave · PIR

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
AD31-N1-100-CS	100W	100~277V	14000LM	>70	IP66	L461*W320*H69MM
AD31-N1-150-CS	150W	100~277V	21000LM	>70	IP66	L461*W320*H69MM
AD31-N2-200-CS	200W	100~277V	28000LM	>70	IP66	L461*W380*H69MM
AD31-N3-240-CS	240W	100~277V	33600LM	>70	IP66	L534*W440*H69MM
AD31-N3-300-CS	300W	100~277V	42000LM	>70	IP66	L534*W440*H69MM

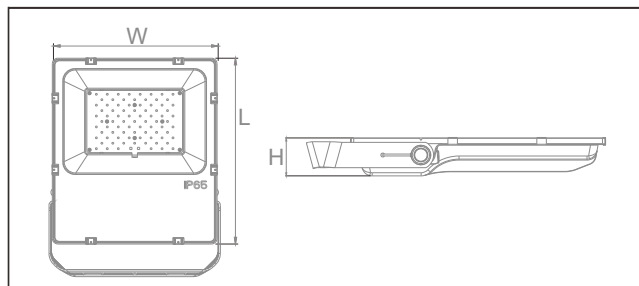
Note: Type II/Type III/Type IV/Type V/P50 Brightness 120lm/w





Features

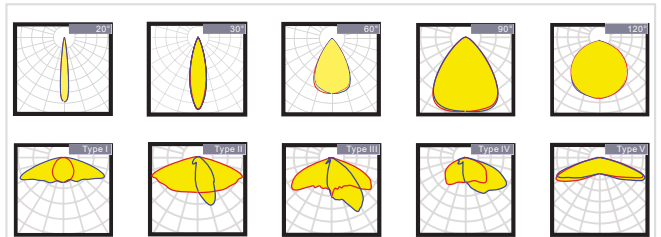
Housing: Die-cast Aluminum ADC12
 Thermal Conductivity: 96 W/m·K
 Led: Cree
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Osram
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L80B10>50,000H
 Lifetime: 50,000H



Functions

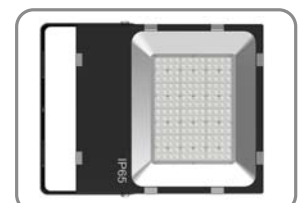
ZigBee · PWM · DALI · 0/1~10V · Micro-wave · PIR

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
AD12-N1-70-CO	70W	220~240V	10500LM	>70	IP65	L354.5*W245*H55MM
AD12-N2-100-CO	100W	220~240V	15000LM	>70	IP65	L402.5*W295*H60MM
AD12-N3-150-CO	150W	220~240V	22500LM	>70	IP65	L430.5*W330*H60MM
AD12-N4-200-CO	200W	220~240V	30000LM	>70	IP65	L470.5*W360*H60MM

Note: All models with lens are 140lm/w



Spiderman
LED Stadium Light Series

Less Weight



Project: Football Stadium
Location: Spain
Light used: 24pcs 900w

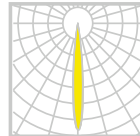


PMMA Lens

PMMA offers resistance to UV and visible radiations. In comparison with PC lens, PMMA lens can be used outdoor directly to sunshine, and will not turn yellow even after 5 years, while PC lens can only insist 2 years.

Respirator is used for each of our module to avoid water condensation.

Minimum Beam angle 8°



The lens was specially developed to maximize the lux on ground but with high homogeneity. With more focused light angle, we managed to get higher lux on ground but use less quantity of lights.

With IK08 protected tempered glass, our high mast light has better performance for outdoor usage.



Respirator

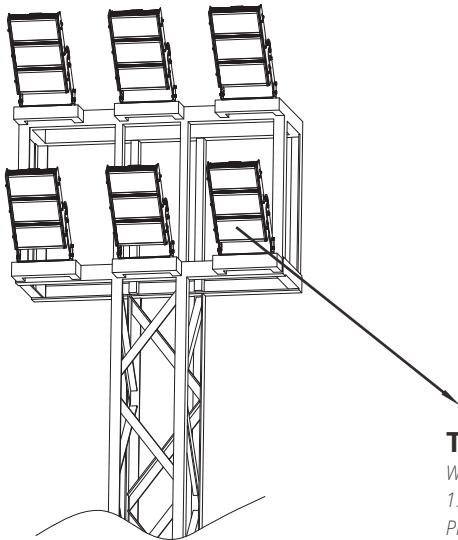


Tempered Glass



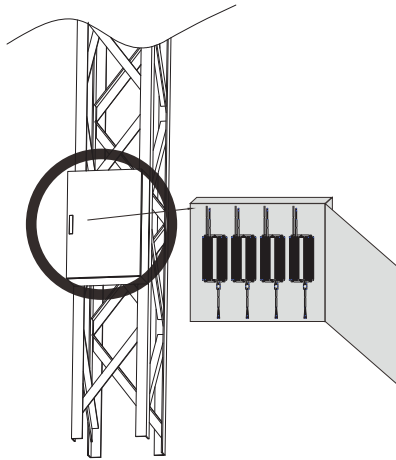


Professional high mast light is required more and more for applications where not only lux on ground is asked, but also homogeneity, small beam angle, long lifetime and UV resistance are even more important. "SPIDERMAN" is the ideal solution.



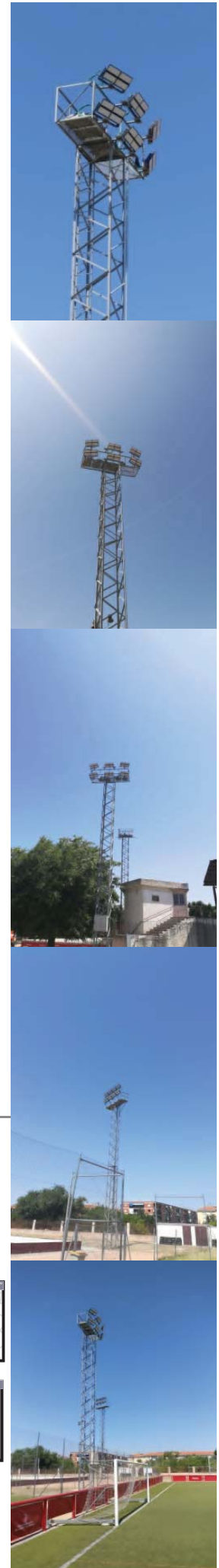
TVS protection

With TVS on PCB (Transient Voltage Suppressor)
1500w peak pulse capability with at 10/1000us waveform
Protecting LEDs from voltage transient induced by lightning



Driver External

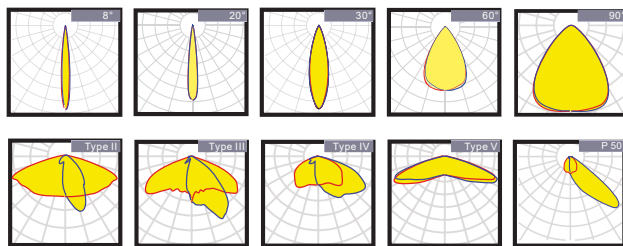
Less Weight
Power decay less than 2w of 25m distance
High power driver, 300w/600w/1200w per unit
Easy to replace the driver



Optics



10 kinds of optics are provided to optimize the performance of light. Different beam angle is used based on different stadium and different mast height. Dialux simulation can be provided for free within 2 days.





CE RoHS compliant

LM79

LM80

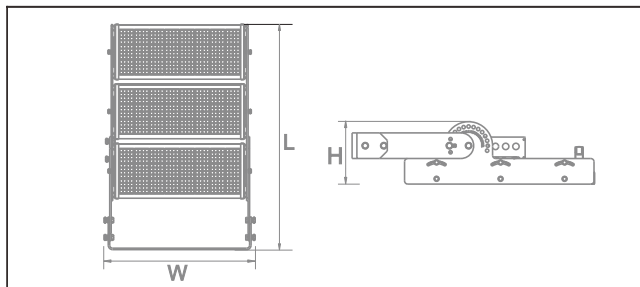
TM21

Spiderman Series
LED Stadium Light



Features

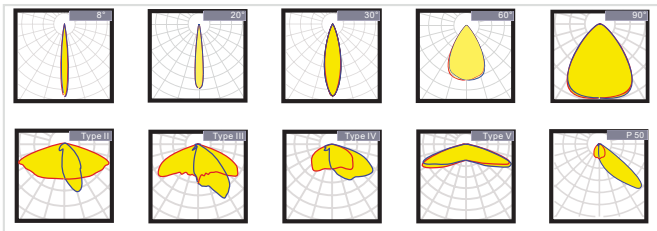
- Housing: Pure Aluminum A6063
- Thermal Conductivity: 226 W/m·K
- Led: CREE JK3030&5050
- CRI: Ra>70 (80/90 for option)
- SDCM: <6
- Power Factor: >0.95
- THD: <15
- Driver: Meanwell ELG
- Driver Efficiency: >90%
- Protection: OTP, OCP, OVP, SCP
- Surge Protection: 20KV
- Waterproof: IP66
- Impact Test: IK08
- Electrical: 100-277V, 50/60Hz
- Operating Temperature: -40~50°C
- TM21: L90B10>70,000H
- Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · DMX

Optical options:



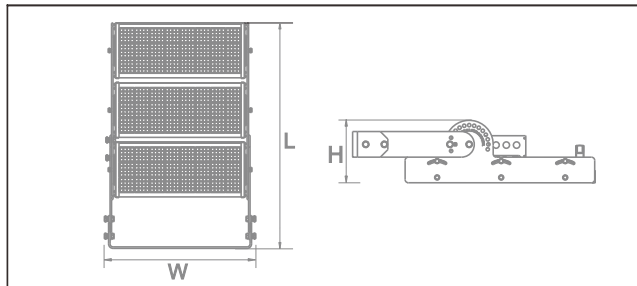
Model	Module	Watt	Voltage	Lumen	CRI	IP	Dimension
SM-N1-500PE11-CI	500W Module x1	500W	100~277V	80000LM	>70	IP66	721*315*158
SM-N1-600PE11-CI	600W Module x1	600W	100~277V	96000LM	>70	IP66	721*315*158
SM-N2-1000E21-CI	500W Module x2	1000W	220~240V	160000LM	>70	IP66	810*502*158
SM-N2-1200E21-CI	600W Module x2	1200W	220~240V	192000LM	>70	IP66	810*502*158
SM-N3-1500E31-CI	500W Module x3	1500W	100~277V	240000LM	>70	IP66	810*704*158
SM-N3-1800E31-CI	600W Module x3	1800W	100~277V	288000LM	>70	IP66	810*704*158





Features

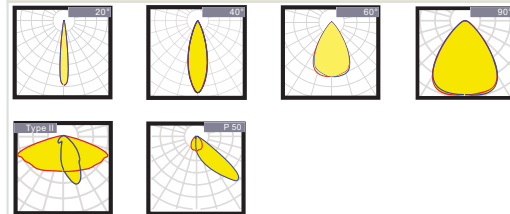
Housing: Pure Aluminum A6063
 Thermal Conductivity: 226 W/m·K
 Led: CREE 3535&5050
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L90B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · DMX

Optical options:



Model	Module	Watt	Voltage	Lumen	CRI	IP	Dimension
CS-N1-250HE2H-CS	125W Module x2	250W	220~240V	37500LM	>70	IP65	L332*W350*H160
CS-N2-500HE4H-CS	125W Module x4	500W	220~240V	75000LM	>70	IP65	L628*W350*H160
CS-N3-750HE3H-CS	250W Module x3	750W	220~240V	112500LM	>70	IP65	L484*W587*H195
CS-N4-1000HE4H-CS	250W Module x4	1000W	220~240V	150000LM	>70	IP65	L632*W587*H195
CS-N5-1200HE5H-CS	250W Module x5	1200W	220~240V	187000LM	>70	IP65	L780*W587*H195
CS-N6-1500HE6H-CS	250W Module x6	1500W	220~240V	225000LM	>70	IP65	L928*W587*H195





Best Light For Stadium
 Low Glare
 Low back light, low spill light
 Asymmetric optics
 Europe Design Patent



Better Lighting Solution For Sport Field

Professional high mast light is required more and more for applications of sport field as it influences players' performance and contributes to the proper arbitrage. Spectators should enjoy the match safely and without inconvenience caused by glare effects or an uneven light.

Our optical system has been designed to ensure high power but minimize glare. And visor system is used to avoid back light and spill light.



Tempered Glass

With IK08 protected tempered glass, our flood light has better performance for outdoor usage.

Rotatable Visor

Asymmetric polarized optics and visor works together to minimize glare, back light, and spill light.

Laser Sight

Easily adjust the direction of illumination to achieve maximum lux and uniformity

Precise Angle Rotation

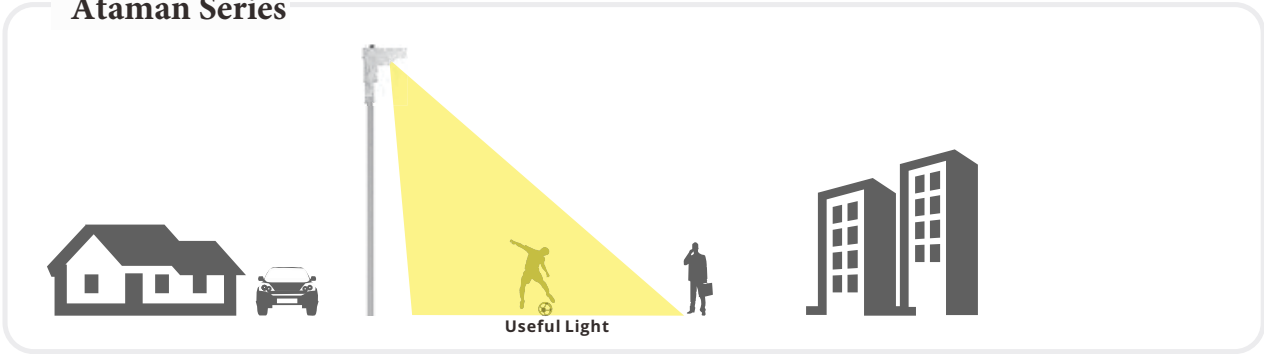
Bracket can be rotated precisely 5 degrees each scale.



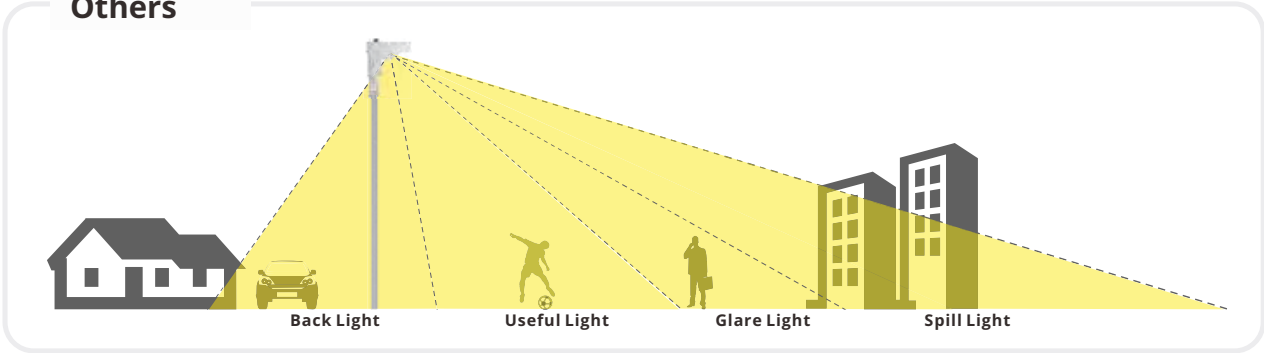
Won't disturb neighbors when enjoying sport

Special designed optics are designed for different sport field and different standard. They will not only improve the lux and uniformity, but also minimize glare light.

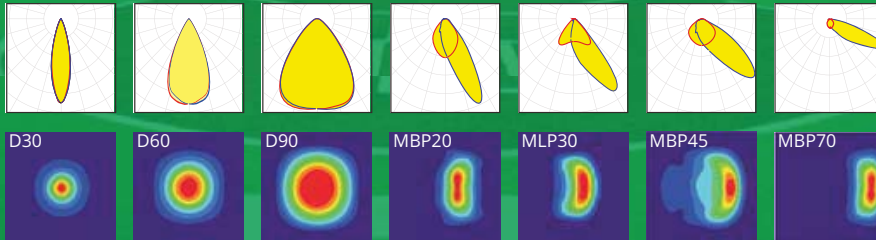
Ataman Series



Others



Special designed optics are designed for different sport field and different standard. They will not only improve the lux and uniformity, but also minimize glare light.



IP66 Waterproof
10/20kv Surge Protection
AkzoNobel coating, best corrosion proof

TVS protection

Transient Voltage Suppressor(TVS) with 1500w peak pulse capability at 10/1000us waveform is used to protecting LEDs from voltage transient induced by lightning.

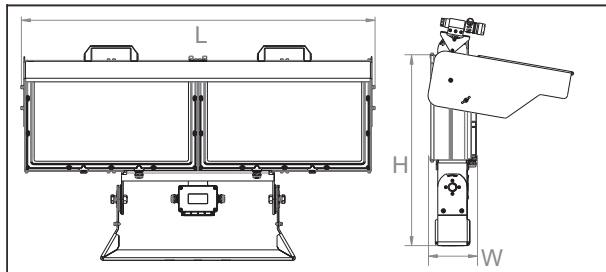


Driver box can be fix on bracket or on pole in order to lower the weight of whole fixture and easy maintenance



Features

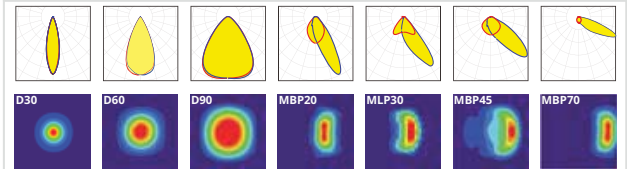
Housing: Pure Aluminum A6063
 Thermal Conductivity: 226 W/m·K
 Led: CREE JK5050
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Inventronic
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP66
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L90B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · DMX

Optical options:



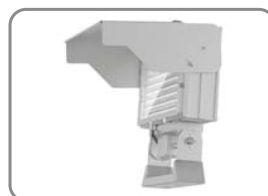
160lm/w

5 YEARS WARRANTY

INVENTRONIC Driver

CREE LED

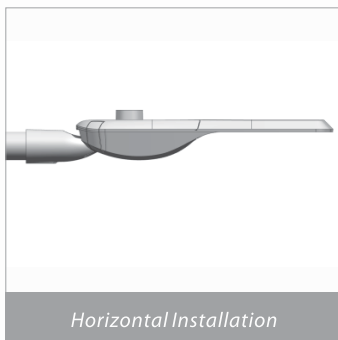
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
AM-N1-500SE1G-CI	500W	100~277V	80000LM	>70	IP66	470*524*127
AM-N1-600SE1G-CI	600W	100~277V	96000LM	>70	IP66	470*524*127
AM-N2-1000SE2G-CI	1000W	220~240V	160000LM	>70	IP66	920*558*127
AM-N2-1200SE2G-CI	1200W	220~240V	192000LM	>70	IP66	920*558*127



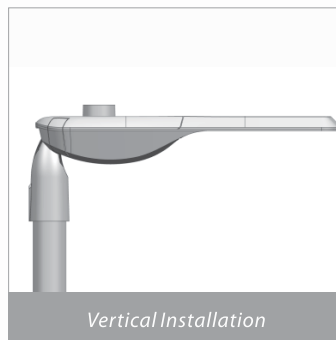
Combat 58



Street lighting is a core piece of urban and rural infrastructure. Lighting helps to create a safe environment for both pedestrians and drivers. Many streetlights around the world are now being updated to LED lighting, which uses less energy and is more reliable than traditional sodium lamps, significantly reducing the cost of keeping streets illuminated.



Horizontal Installation

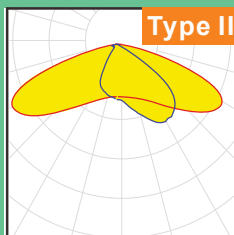


Vertical Installation

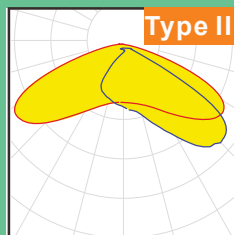


Adjustable inclination system

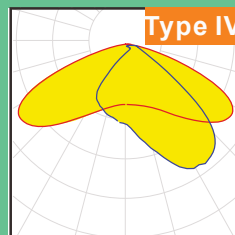
Professional Optics



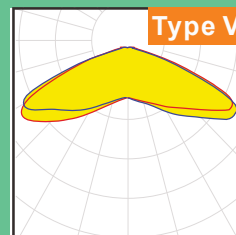
Type II



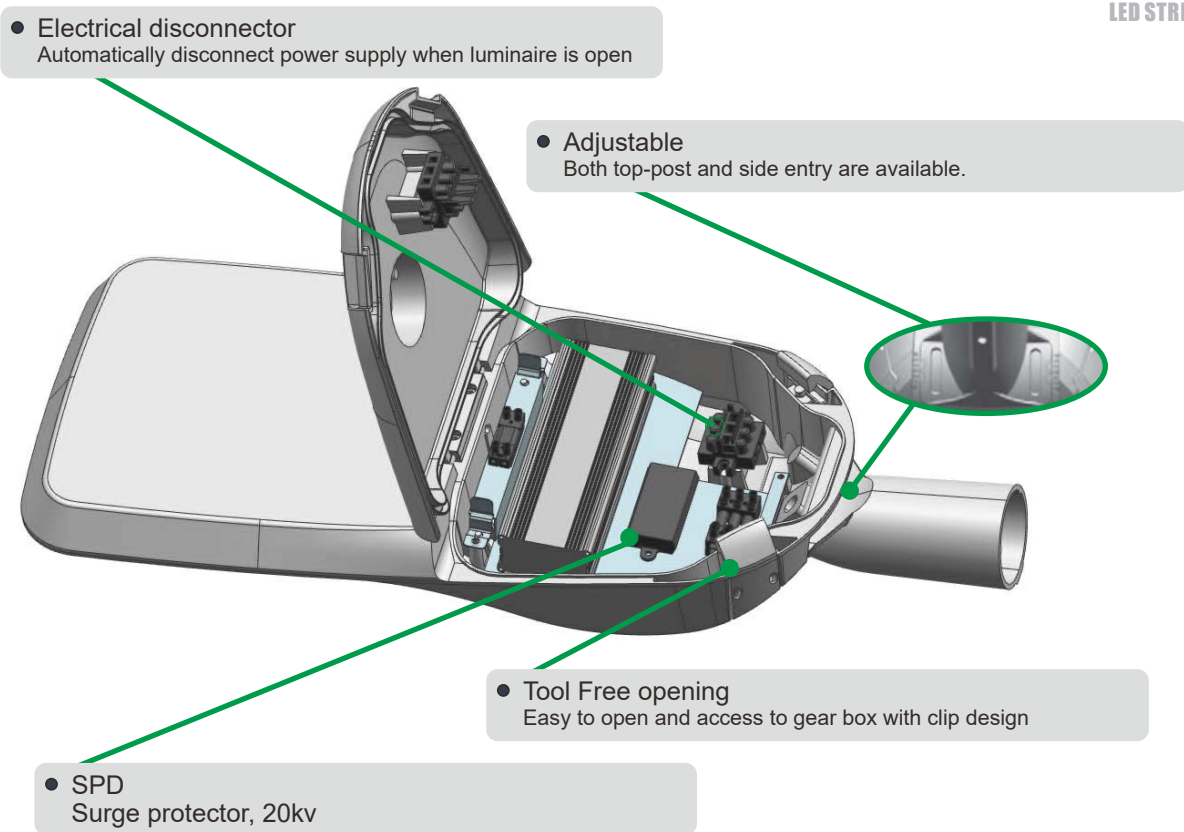
Type III



Type IV



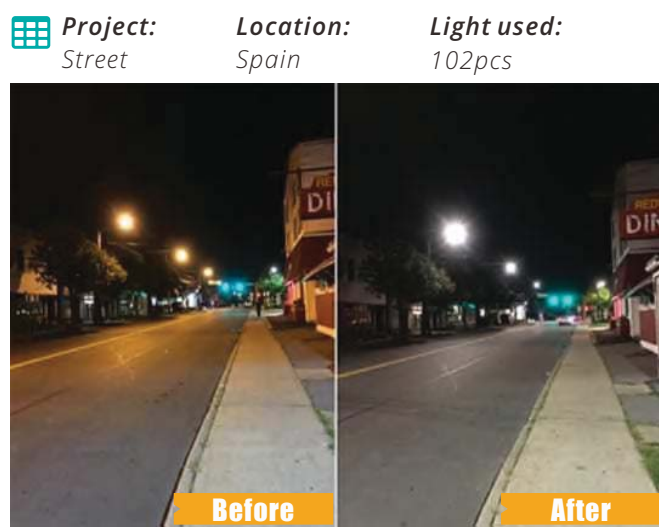
Type V



“

The **Combat** series street light is ideal for the attractive, efficient and economical lighting of roads, paths and plazas with mounting heights from 3 to 12 metres. It is a high-performance, flexible solution for almost all technical outdoor lighting applications. Thanks to the cree led and high quality Inventronic or Meanwell driver, not only life time is longer than 50000hours, but also lumen maintenance is up to L90B10>50,000hours. Tempered glass and PMMA lens are used to offer better UV protection.

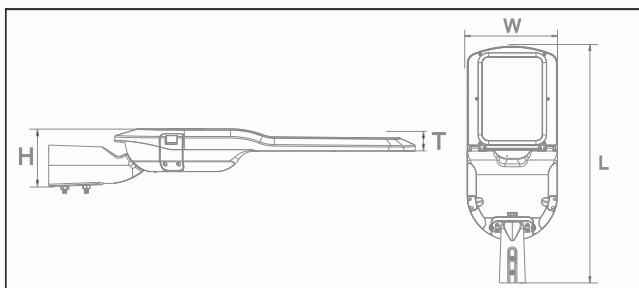
It is specially developed to minimize glare and maximize homogeneity. Reductions in energy consumption, light pollution and better traffic safety always have top priority





Features

Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK3030
 CRI: Ra>70
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP66
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L90B10>50,000H
 Lifetime: 100,000H



Functions

DALI · 0/1~10V · Timing · Program · Auxiliary

Optical options:



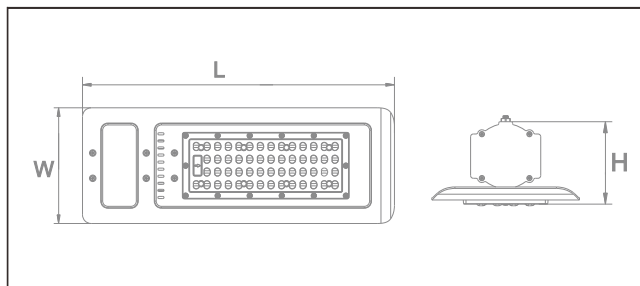
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
CMBT58-N1-24	24W	100~277V	3840LM	>70	IP66	L568*W200*H109mm
CMBT58-N1-40	40W	100~277V	6400LM	>70	IP66	L568*W200*H109mm
CMBT58-N1-60	60W	100~277V	9000LM	>70	IP66	L568*W200*H109mm
CMBT58-N2-80	80W	100~277V	12000LM	>70	IP66	L613*W240*H109mm
CMBT58-N2-100	100W	100~277V	15000LM	>70	IP66	L613*W240*H109mm
CMBT58-N2-120	120W	100~277V	16800LM	>70	IP66	L613*W240*H109mm
CMBT58-N3-150	150W	100~277V	21000LM	>70	IP66	L683*W260*H109mm
CMBT58-N4-180	180W	100~277V	25200LM	>70	IP66	L693*W300*H109mm
CMBT58-N4-200	200W	100~277V	28000LM	>70	IP66	L693*W300*H109mm





Features

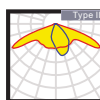
Housing: Pure Aluminum
 Thermal Conductivity: 226 W/m·K
 Led: CREE JK3030
 CRI: Ra>70 (80&90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP66
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L80B10>50,000H
 Lifetime: 50,000H



Functions

DALI · 0/1~10V · Timing · Program

Optical options:



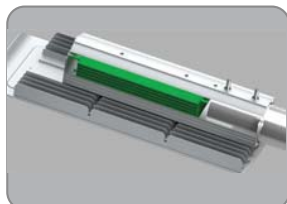
120lm/w

5 YEARS WARRANTY

Sosen Driver

CREE LED

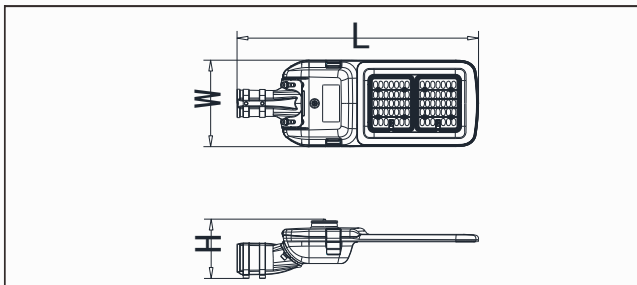
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
CMBT48-N1-30	30W	220~240V	3600LM	>70 (80)	IP66	L366*W135*H85MM
CMBT48-N1-40	40W	220~240V	4800LM	>70 (80)	IP66	L366*W135*H90MM
CMBT48-N2-60	60W	220~240V	7200LM	>70 (80)	IP66	L431*W160*H90MM
CMBT48-N2-90	90W	220~240V	10800LM	>70 (80)	IP66	L431*W160*H90MM
CMBT48-N3-120	120W	220~240V	14400LM	>70 (80)	IP66	L631*W215*H90MM
CMBT48-N3-150	150W	220~240V	18000LM	>70 (80)	IP66	L631*W215*H90MM
CMBT48-N3-200	200W	220~240V	24000LM	>70 (80)	IP66	L631*W215*H90MM





Features

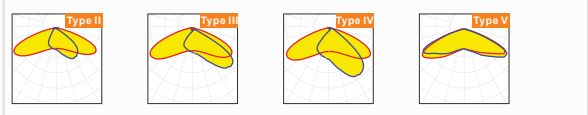
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: LUXEON 5050
 CRI: Ra>70
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: MOSO
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP Surge
 Protection: 10KV
 Waterproof rating of LED Light Engine: IP68
 Waterproof rating of Electrical Compartment: IP66
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50 °C
 TM21: L90B10>50,000H
 Lifetime: 100,000H



Functions

DALI · 0/1~10V · Timing · Program · Auxiliary

Optical options:



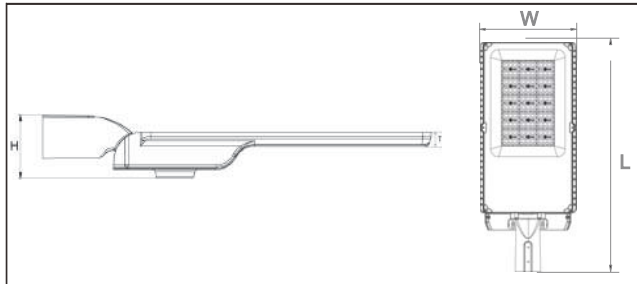
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
CMBT68-N1-60	60W	100~277V	9600LM	>70	IP66	L540*W240*H165mm
CMBT68-N2-100	100W	100~277V	14500LM	>70	IP66	L670*W240*H165mm
CMBT68-N2-120	120W	100~277V	20040LM	>70	IP66	L670*W240*H165mm
CMBT68-N3-180	180W	100~277V	30060LM	>70	IP66	L735*W310*H165mm
CMBT68-N4-240	240W	100~277V	40080LM	>70	IP66	L835*W310*H165mm





Features

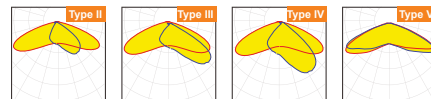
- Housing: Die-cast Aluminum
- Thermal Conductivity: 96 W/m·K
- Led: PHILIPS
- CRI: Ra>70
- SDCM: <6
- Power Factor: >0.95
- THD: <15
- Driver: Meanwell XLG
- Driver Efficiency: >90%
- Protection: OTP, OCP, OVP, SCP
- Surge Protection: 6KV
- Waterproof: IP66
- Impact Test: IK08
- Electrical: 100-277V, 50/60Hz
- Operating Temperature: -40~50°C
- TM21: L90B10>50,000H
- Lifetime: 100,000H



Functions

DALI · 0/1~10V · Timing · Program · Always-on Auxiliary

Optical options:



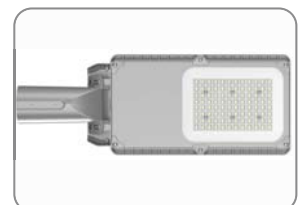
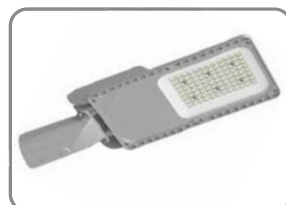
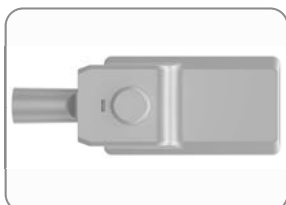
150~160lm/w

5 YEARS WARRANTY

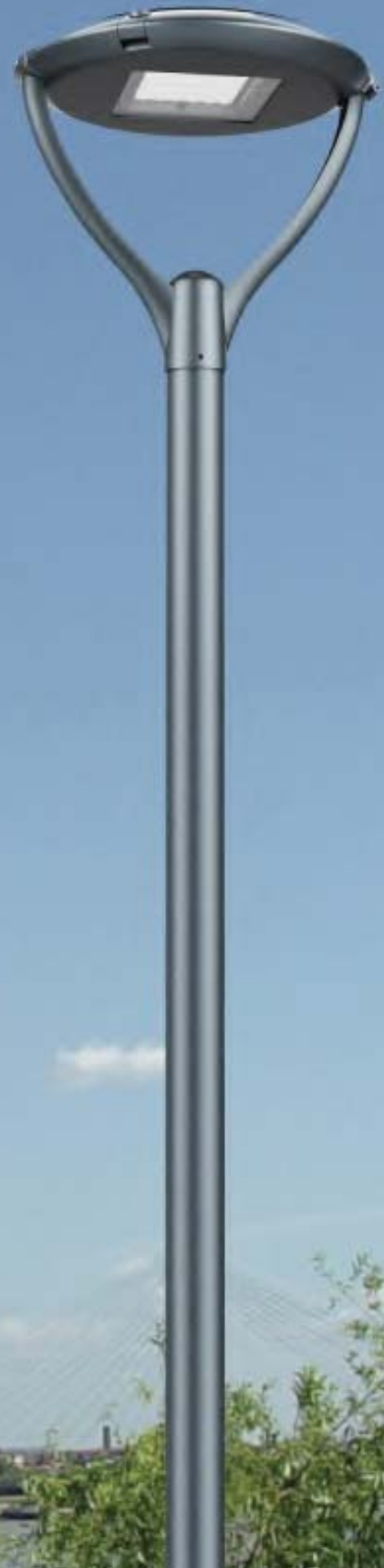
Meanwell Driver

PHILIPS LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
CMBT33-N1-24	24W	100~277V	3840LM	>70	IP66	L515*W190*H99mm
CMBT33-N1-40	40W	100~277V	6400LM	>70	IP66	L515*W190*H99mm
CMBT33-N1-50	50W	100~277V	7500LM	>70	IP66	L515*W190*H99mm
CMBT33-N2-80	80W	100~277V	12800LM	>70	IP66	L575*W242*H109mm
CMBT33-N2-100	100W	100~277V	15000LM	>70	IP66	L575*W242*H109mm
CMBT33-N3-120	120W	100~277V	18000LM	>70	IP66	L615*W262*H109mm
CMBT33-N3-150	150W	100~277V	22500LM	>70	IP66	L615*W262*H109mm
CMBT33-N4-180	180W	100~277V	27000LM	>70	IP66	L685*W287*H109mm
CMBT33-N4-200	200W	100~277V	30000LM	>70	IP66	L685*W287*H109mm



LED GARDEN LIGHT





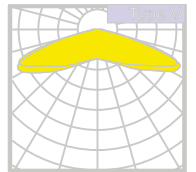
Project: Street **Location:** Spain **Light used:** 84pcs



PMMA Lens

PMMA offers resistance to UV and visible radiations. In comparison with PC lens, PMMA lens can be used outdoor directly to sunshine, and will not turn yellow even after 5 years, while PC lens can only insist 2 years.

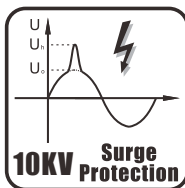
Wide Range Beam angle 140°



The lens was specially developed to maximize the space lighted but with high homogeneity. The wide range optic is ideal solution for location where the distance between two fixtures are far.

10KV Surge protection driver is used for our garden light, for the purpose of protecting against electrical surges and spikes, including those caused by lightning.

With IK08 protected tempered glass, our garden light has better performance for outdoor usage.



Surge Protection

Tempered Glass



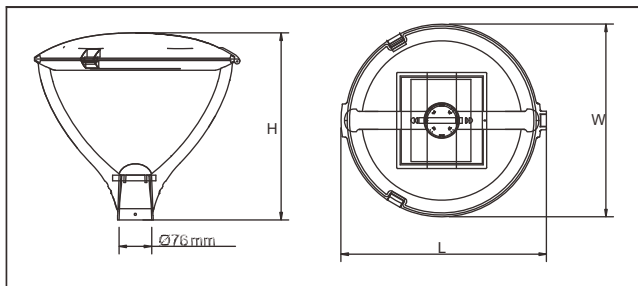
“

Our LED GARDEN LIGHT luminary adapts to different environments like parks, gardens, squares or residential zones. It combines both energy efficiency of the LED technology and the photometric characteristics of the new concept of lenses. The luminary offers the maximum photometric efficiency with a great visual comfort and ambience appearance, thanks to the use of high quality led and optics, It provides multiple photometric configurations based on the chosen lens.



Features

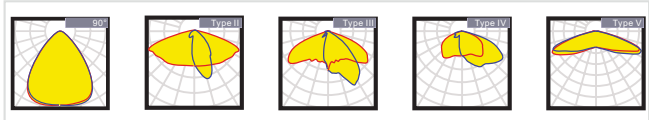
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK 5050
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



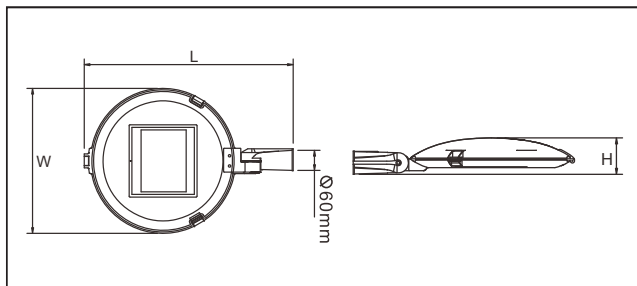
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
GRDN-N1-030CE1G-CS	30W	100~277V	4200LM	>70(80)	IP65	L550*W516*H550MM
GRDN-N1-040CE1G-CS	40W	100~277V	5600LM	>70(80)	IP65	L550*W516*H550MM
GRDN-N1-060CE1F-CS	60W	100~277V	7800LM	>70(80)	IP65	L550*W516*H550MM
GRDN-N1-090CE1F-CS	90W	100~277V	11700LM	>70(80)	IP65	L550*W516*H550MM





Features

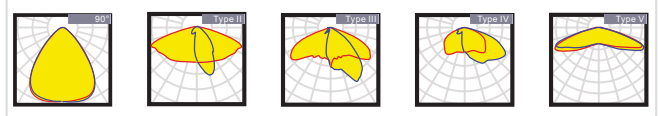
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK 5050
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



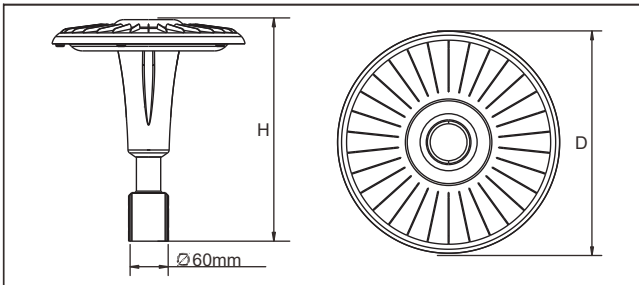
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
GRDN-N2-030DE1G-CS	30W	100~277V	4200LM	>70(80)	IP65	L743*W516*H122MM
GRDN-N2-040DE1G-CS	40W	100~277V	5600LM	>70(80)	IP65	L743*W516*H122MM
GRDN-N2-060DE1F-CS	60W	100~277V	7800LM	>70(80)	IP65	L743*W516*H122MM
GRDN-N2-090DE1F-CS	90W	100~277V	11700LM	>70(80)	IP65	L743*W516*H122MM





Features

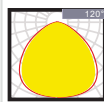
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK 3030
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>50,000H
 Lifetime: 50,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



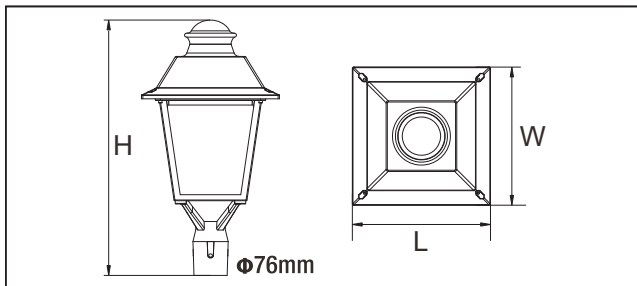
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
GRND-N3-030EE1E-CS	30W	100~277V	3600LM	>70(80)	IP65	D400*H456MM
GRND-N3-040EE1E-CS	40W	100~277V	4800LM	>70(80)	IP65	D400*H456MM
GRND-N3-060EE1E-CS	60W	100~277V	7200LM	>70(80)	IP65	D400*H456MM
GRND-N3-090EE1D-CS	90W	100~277V	9900LM	>70(80)	IP65	D400*H456MM
GRND-N3-120EE1D-CS	120W	100~277V	13200LM	>70(80)	IP65	D446*H456MM
GRND-N3-150EE1D-CS	150W	100~277V	16500LM	>70(80)	IP65	D446*H456MM





Features

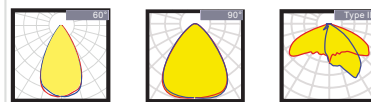
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK 3030
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>50,000H
 Lifetime: 50,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
GRND-N4-030AE1H-CS	30W	100~277V	4500LM	>70(80)	IP65	L300*W300*H637MM
GRND-N4-040AE1H-CS	40W	100~277V	6000LM	>70(80)	IP65	L300*W300*H637MM
GRND-N4-060AE1G-CS	60W	100~277V	8400LM	>70(80)	IP65	L300*W300*H637MM
GRND-N4-030BE1H-CS	30W	100~277V	4500LM	>70(80)	IP65	L445*W445*H883MM
GRND-N4-040BE1H-CS	40W	100~277V	6000LM	>70(80)	IP65	L445*W445*H883MM
GRND-N4-060BE1G-CS	60W	100~277V	8400LM	>70(80)	IP65	L445*W445*H883MM

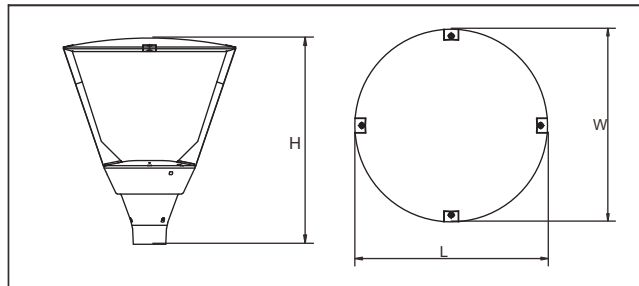






Features

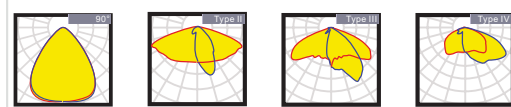
Housing: Die-cast Aluminum Thermal
 Conductivity: 96 W/m-K
 Led: CREE
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Moso Driver
 Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 Tm21: L90B10>50,000H
 Lifetime: 100,000 H



Functions

ZigBee · PWM · DALI · 0/1~10V

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
GRND-N5-030GE1G-CN	30W	100~277V	4200LM	>70	IP65	L452*W452*H542MM
GRND-N5-040GE1G-CN	40W	100~277V	5600LM	>70	IP65	L452*W452*H542MM
GRND-N5-060GE1G-CN	60W	100~277V	8400LM	>70	IP65	L452*W452*H542MM
GRND-N5-090GE1G-CN	90W	100~277V	12600LM	>70	IP65	L452*W452*H542MM





170
LM/W

- Die-cast Housing
- With tempered glass
- Surge Protection 6KV
- IP66
- Symmetric & asymmetric

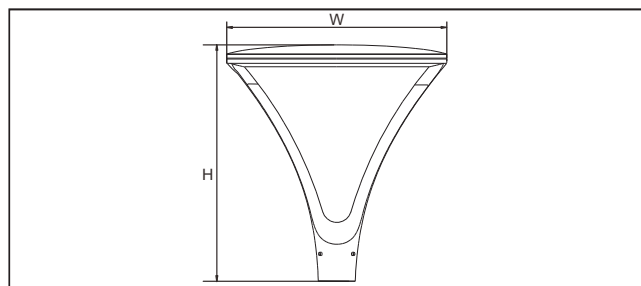


CE RoHS compliant LM 79 LM 80 TM 21



Features

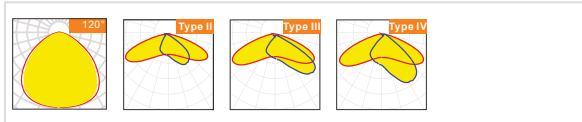
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: Philips
 CRI: Ra>70 (80/90 for option)
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP66
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°
 C Tm21: L90B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V

Optical options:



170 lm/w 5 YEARS WARRANTY Meanwell Driver Philips LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
GRND-N6-030HE1G-CM	30W	100~277V	5100LM	>70	IP66	L452*W452*H512MM
GRND-N6-040HE1G-CM	40W	100~277V	6800LM	>70	IP66	L452*W452*H512MM
GRND-N6-060HE1G-CM	60W	100~277V	10200LM	>70	IP66	L452*W452*H512MM
GRND-N6-090HE1G-CM	90W	100~277V	15300LM	>70	IP66	L452*W452*H512MM




ATEX certified

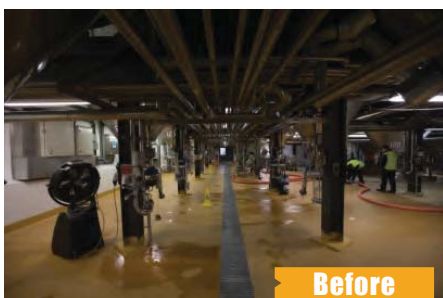


Application

“ Applied to oil fields, oil refineries, offshore oil platform, power plants, gas stations, oil tanks, wharf, tunnel, pumping station, substation, the military base, etc. Zone I and Zone II Hazardous Locations, Zone 21, Zone 22 and IIA, IIB, IIC explosive gas atmosphere.

Zone 1 Zone 2
Zone 21 Zone 22

 **Project:** Factory
Location: Ireland
Light used: 220pcs 150w



“

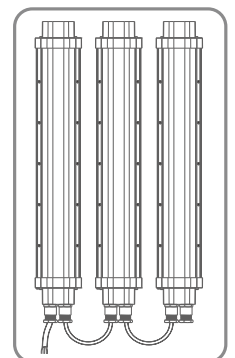
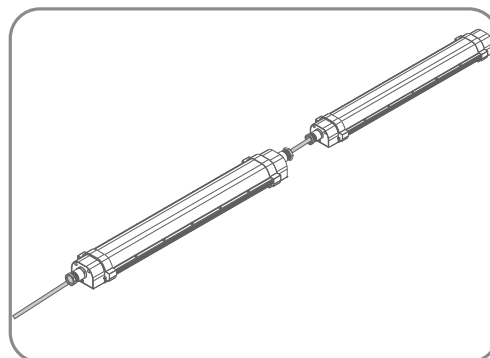
Unlike the glass tube design of traditional fluorescent lamps, our lamps have no filaments or fragile housings to break during operation. Instead of using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than fluorescent lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. It provides a more reliable, stable, durable, and energy efficient light source over traditional fluorescent lighting.



Wago
connectors
 Easy Rewiring
 Cost Saving

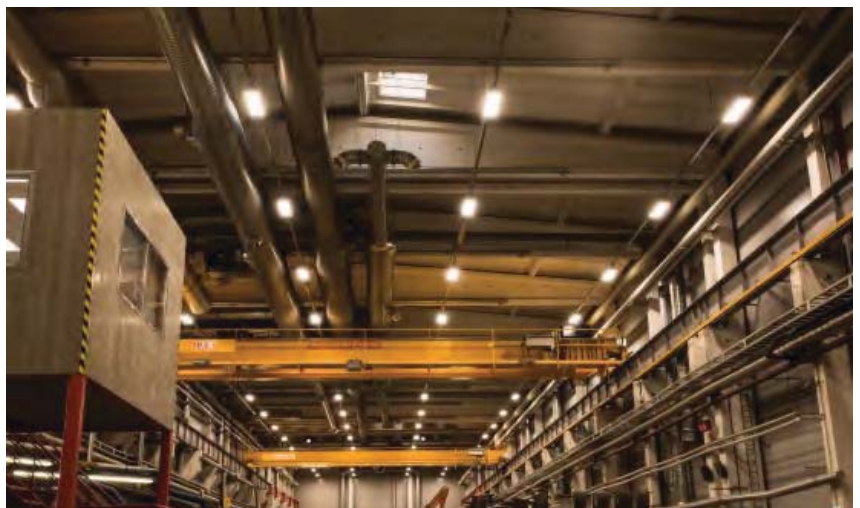
Linkable in Series

The end cap on each side of the fixture can be opened very easily to rewire inside. With one gland and two glands for options. and 3x2.5mm² or 5X1.5mm² wire through, it can be linkable in series to save installation cost.



With Atex certified, our explosion proof light can be widely used for applications of flammable and explosive chemical materials. Bridgelux led and specially designed driver are used to guarantee safety and long lifetime.

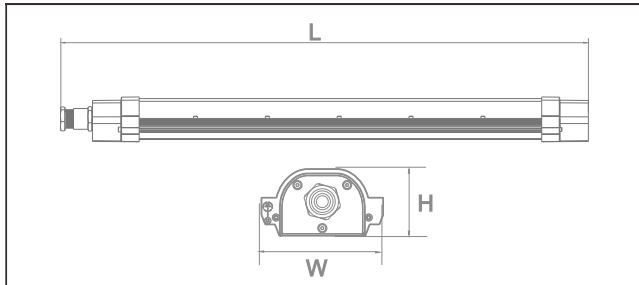
Project: Industrial workshop
Location: Germany
Light used: 184pcs Atex Lights





Features

Housing: Pure Aluminum A6063
 Thermal Conductivity: 226 W/m·K
 Led: Bridgelux
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Lifud
 Driver Efficiency: >92%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 4KV
 Waterproof: IP65
 Impact Test: IK10
 Corrosion Proof: WF2
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -25~45°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H



Functions

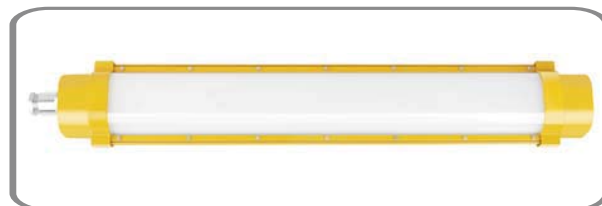
ZigBee · PWM · DALI · 0/1~10V

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
TB-L735-20-BG	20W	100~277	2400LM	>80	IP65	L735*W115*H63MM
TB-L735-40-BG	40W	100~277	4800LM	>80	IP65	L735*W115*H63MM
TB-L1335-40-BG	40W	100~277	4800LM	>80	IP65	L1335*W115*H63MM
TB-L1335-60-BG	60W	100~277	7200LM	>80	IP65	L1335*W115*H63MM
TB-L1335-80-BG	80W	100~277	9600LM	>80	IP65	L1335*W115*H63MM

Note: With transparent cover brightness is up to 150lm/w

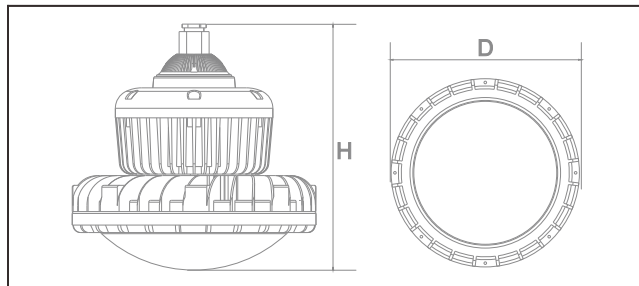




Ex II 2 G Ex e mb d IIC T5 Gb

Features

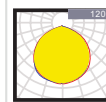
Housing: Die-cast Aluminum ADC12
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK3030
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell HBG
 Driver Efficiency: >92%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP66
 Impact Test: IK08
 Corrosion Proof: WF2
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H



Functions

PWM · DALI · 0/1~10V

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
EX-N1-60-CM	60W	100~277V	7800LM	>80	IP66	D325*H315MM
EX-N1-80-CM	80W	100~277V	10400LM	>80	IP66	D325*H315MM
EX-N1-100-CM	100W	100~277V	13000LM	>80	IP66	D325*H315MM
EX-N1-120-CM	120W	100~277V	15600LM	>80	IP66	D325*H315MM
EX-N1-150-CM	150W	100~277V	19500LM	>80	IP66	D325*H315MM
EX-N1-200-CM	200W	100~277V	26000LM	>80	IP66	D325*H315MM

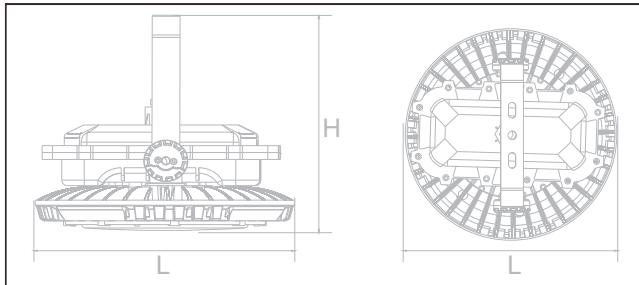




II 2G Ex de mb IIC T6 Gb
II 2D Ex tb A21 T(80°C) Db

Features

Housing: Die-cast Aluminum ADC12
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK3030
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP66
 Impact Test: IK08
 Corrosion Proof: WF2
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H



Functions

PWM · DALI · 0/1~10V

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
EX-N1-60-CM	60W	100~277V	9600LM	>80	IP66	354*312mm
EX-N1-80-CM	80W	100~277V	12800LM	>80	IP66	354*312mm
EX-N1-100-CM	100W	100~277V	16000LM	>80	IP66	354*312mm
EX-N1-120-CM	120W	100~277V	18000LM	>80	IP66	354*312mm
EX-N1-150-CM	150W	100~277V	22500LM	>80	IP66	354*312mm
EX-N1-200-CM	200W	100~277V	28000LM	>80	IP66	354*312mm

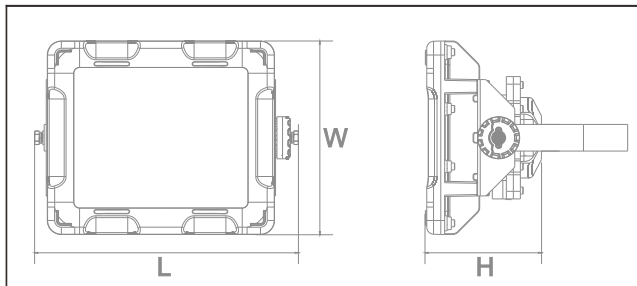




II 2G Ex de mb IIC T6 Gb
II 2D Ex tb A21 T (80°C) Db

Features

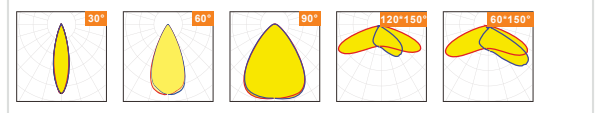
Housing: Die-cast Aluminum ADC12
 Thermal Conductivity: 96 W/m·K
 Led: CREE JK3030
 CRI: Ra>70
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP66
 Impact Test: IK08
 Corrosion Proof: WF2
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H



Functions

PWM · DALI · 0/1~10V

Optical options:



150lm/w

5 YEARS WARRANTY

Meanwell Driver


Cree LED

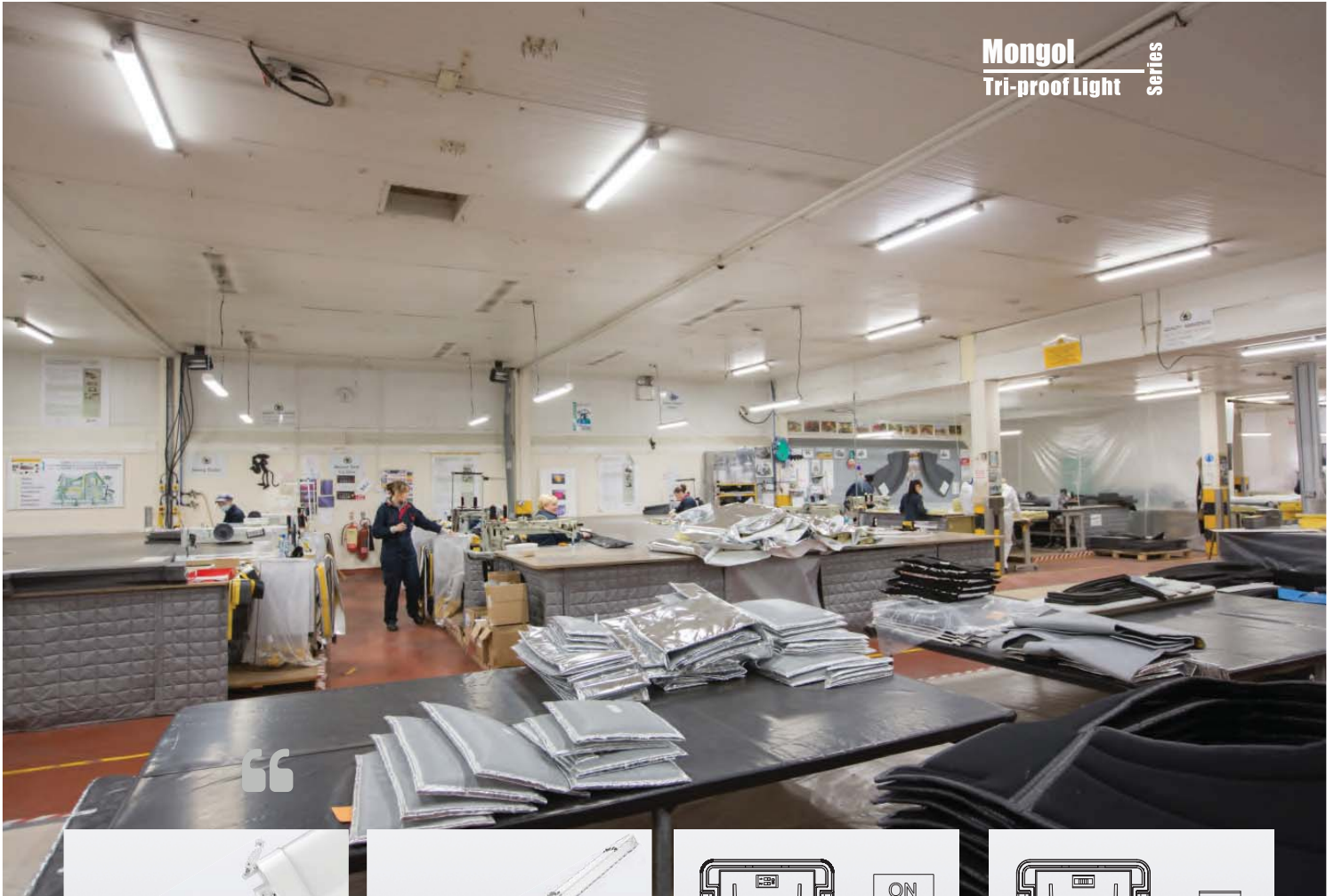
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
EX-N1-025AE1H-CM	25W	100~277V	3750LM	>70	IP66	374*276*171
EX-N1-050AE1H-CM	50W	100~277V	7500LM	>70	IP66	374*276*171
EX-N1-070AE1H-CM	70W	100~277V	10500LM	>70	IP66	374*276*171
EX-N1-100AE1H-CM	100W	100~277V	15000LM	>70	IP66	374*276*171
EX-N1-150AE1H-CM	150W	100~277V	21000LM	>70	IP66	374*276*171
EX-N1-200AE1H-CM	200W	100~277V	28000LM	>70	IP66	374*276*171



Mongol

In order to help our customer to lower labor cost during installation, our *Mongol* series tri-proof light's end-cap is designed specially. With buckles on each end, it can be open very easily so that customers can rewire inside the housing. And 3XL, 3x1.5mm², 3x2.5mm², 5x1.5mm² and 5x2.5mm² wire through are all for option to be linkable in series.

 **Project:** Workshop
Location: Ireland
Light used: 1240pcs Fixtures



Mongol
Tri-proof Light Series

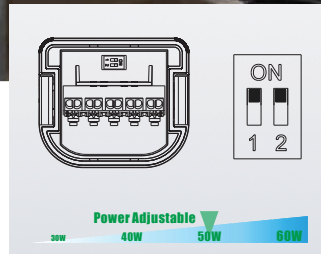
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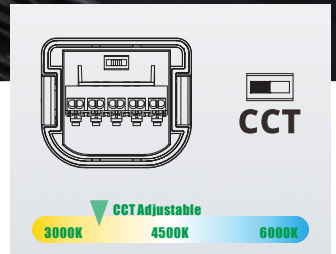
Easy Open&rewire



Wire Through



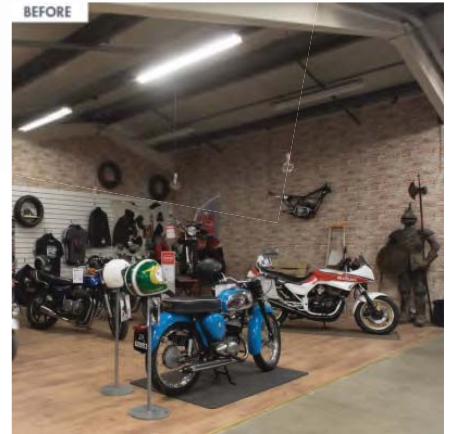
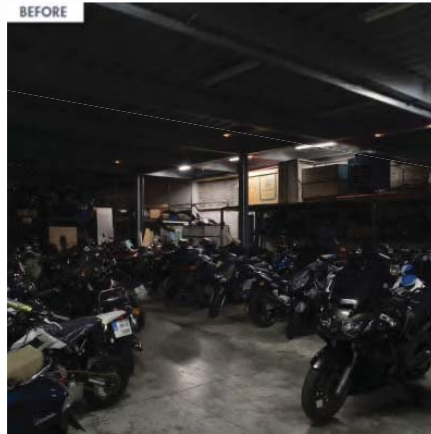
Power Adjustable



CCT Adjustable

140LM/W

Bridgelux led and Osram driver are used for *Mongol* series Tri-proof light. With low current circuit design, the temperature will be 5% lower, and efficiency 7% higher. It can get 140 lm/W



Project:

Bikeworld

Location:

Ireland

Light used:

400pcs fixtures

Bikeworld is a leading supplier of Kawasaki motorbikes. They also offer a wide range of biking apparel and accessories in their retail spaces.

Some areas of the showrooms were dark and the lights were failing. It was also costing the company a considerable sum to run the old high-wattage fluorescents. The window lights in particular were proving a high draw on electricity as they were lit at night in order to showcase the bikes.

Using our Light as a Service, Bikeworld was retrofitted with almost 400 fixtures including the public showroom, storage areas, back of house and the offices.

Light quality has been drastically improved and energy consumption has plummeted. The bikes and gear are now under lighting which highlights their quality and Bikeworld reduced the lighting bill without making any capital expenditure.



RoHS compliant



LM 79

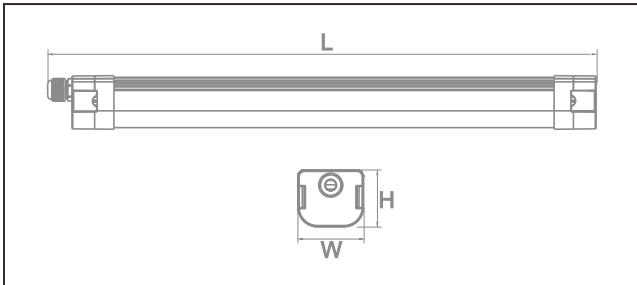
LM 80

TM 21



Features

Housing: Plastic With Aluminum Inside
 Thermal Conductivity: 226 W/m·K
 Led: Sanan
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: CE
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 2KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -20~40°C
 TM21: L80B10>50,000H
 Lifetime: 50,000H



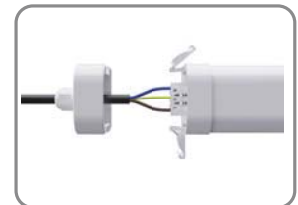
Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
Mongol-L600-20-SO	20W	220~240V	2000LM	>80	IP65	L659*W74*H64MM
Mongol-L1200-40-SO	40W	220~240V	4000LM	>80	IP65	L1221*W74*H64MM
Mongol-L1500-60-SO	60W	220~240V	6000LM	>80	IP65	L1502*W74*H64MM





RoHS compliant



LM 79

LM 80

TM 21



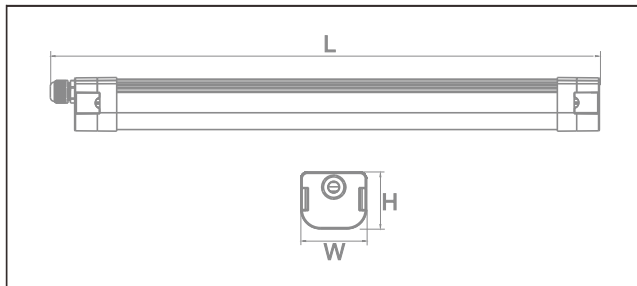
Power Adjustable
30W 40W 50W 60W



CCT Adjustable
3000K 4500K 6000K

Features

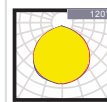
Housing: Plastic With Aluminum Inside
 Thermal Conductivity: 226 W/m·K
 Led: Bridgelux, Philips
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Osram
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 2KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -20~40°C
 TM21: L80B10>50,000H
 Lifetime: 50,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



140 lm/w

5 YEARS WARRANTY

Osram Driver

Bridgelux LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
Mongol-L600-20-PO	20W	220~240V	2800LM	>80	IP65	L659*W74*H64MM
Mongol-L1200-40-PO	40W	220~240V	5600LM	>80	IP65	L1221*W74*H64MM
Mongol-L1500-60-PO	60W	220~240V	8400LM	>80	IP65	L1502*W74*H64MM





“ To give an indication of the strict tests that the IP69K Tri-Proof product will go through we have listed what is required to enable the certification to be awarded. The IP69K Tri-Proof light is fixed to a turntable that must rotate fully 5 times every minute. The LED Light fitting is then subjected to a high-pressure jet of water (1160 ~ 1450 Psi) with a minimum temperature of 80 °C at a flow rate of 14-16 Litres per minute. The water jet must be between 100 and 150mm away from the Tri-Proof light and tested at angles varying from 0°, 30°, 60° and 90° for 30 seconds each time. Once this test has been completed the Tri-Proof light is then inspected for any water ingress. Only if there is no penetration of the water is this deemed to have passed and awarded its certification.



Project:
Food Industry

Location:
Serbia

Light used:
120pcs fixture



“

Triumph series Corrosion Protection IP69 led Tri proof light is one of our most popular products because of its high quality and superior performance. Not only does it offer an extensive application range from commercial to industrial for any retrofit or new installation, but it is also a genuine champion for being energy-efficient and cost-effective.

IP69K

”



IP69K

IP69K is the highest level of this protection and is designed for applications where water jets are under high pressure and high temperature are used for specific wash-downs.



PMMA Housing

Due to the risk of corrosion by contact with the alkaline environments created in the humid atmosphere, PMMA material housing and stainless steel end cap are used to provide better corrosion proof, waterproof, and lifetime.

This will also include special sensitization and chemical cleaning. In some instances, the cleaning process involves very intensive requirements for industries such as Food & Beverage as well as the vehicle industry.

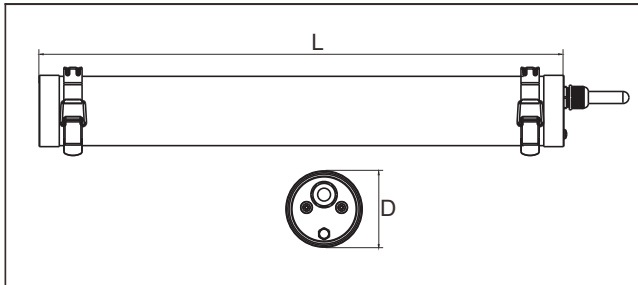


Corrosion Proof

Light is an important aspect of any animal's environment. Studies have shown an increase in growth and reproductive performance due to light exposure. Modern farm lighting systems should attempt to mimic the sun's spectrum, however many poultry producers still utilize old residential and commercial incandescent lamps in their barns. The problem with this is that incandescent bulbs don't do a good job of replicating sunlight. LEDs are the most efficient and environmentally friendly of the agricultural lighting options, producing a continuous white light spectrum unlike any other artificial light source by combining a blue LED with red and green phosphors.

Features

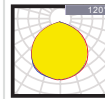
Housing: PMMA
 Thermal Conductivity: 226 W/m·K
 Led: Bridgelux
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.90
 THD: <15
 Driver: Osram
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 2KV
 Waterproof: IP69K
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -20~45C°
 TM21: L80B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee • PWM • DALI • 0/1~10V • Micro-wave

Optical options:



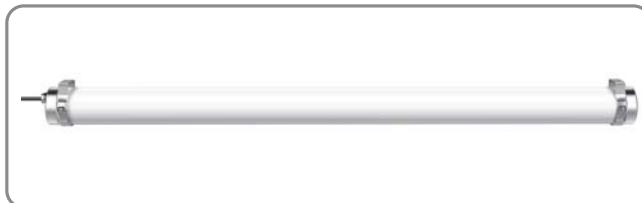
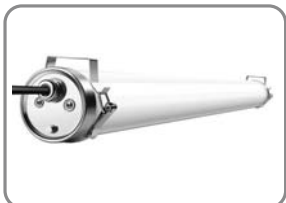
150lm/w

5 YEARS WARRANTY

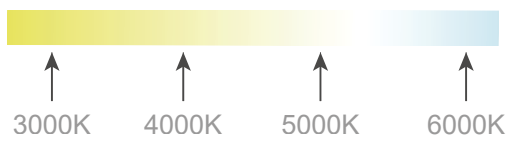
Osram driver

Bridgelux LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
Sumo-L600-20	20W	220~240V	3000LM	>80	IP69K	L600*D81MM
Sumo-L1200-40	40W	220~240V	6000LM	>80	IP69K	L1200*D81MM
Sumo-L1500-60	60W	220~240V	9000LM	>80	IP69K	L1500*D81MM

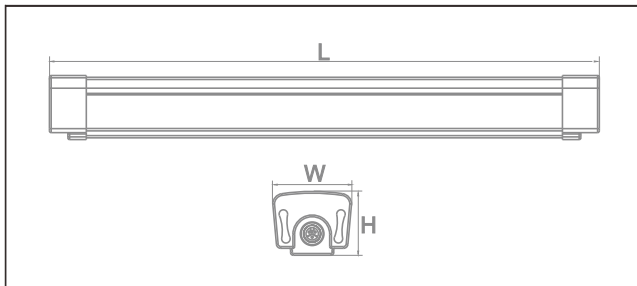


Tri color



Features

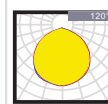
Housing: Pure Aluminum A6063
 Thermal Conductivity: 226 W/m·K
 Led: Bridgelux
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Philips
 Driver Efficiency: >92%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 2KV
 Waterproof: IP65
 Impact Test: IK10
 Corrosion Proof: Hard Anodic Oxide Coating
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -20~40°C
 TM21: L80B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



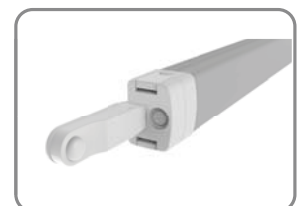
140 lm/w

5 YEARS WARRANTY

Philips driver

Bridgelux LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
Amazon II-L600-20/30	20W, 30W	220~240V	2600-2800LM	>80	IP65	L600*W84*H63MM
Amazon II-L1200-40	40W	220~240V	5200LM	>80	IP65	L1200*W84*H63MM
Amazon II-L1200-50-AD	50W (46W/42W/36W)	220~240V	7000LM	>80	IP65	L1200*W84*H63MM
Amazon II-L1500-60-AD	60W (55W/50W/40W)	220~240V	8400LM	>80	IP65	L1500*W84*H63MM
Amazon II-L1500-80	80W	220~240V	11200LM	>80	IP65	L1500*W84*H63MM





RoHS compliant

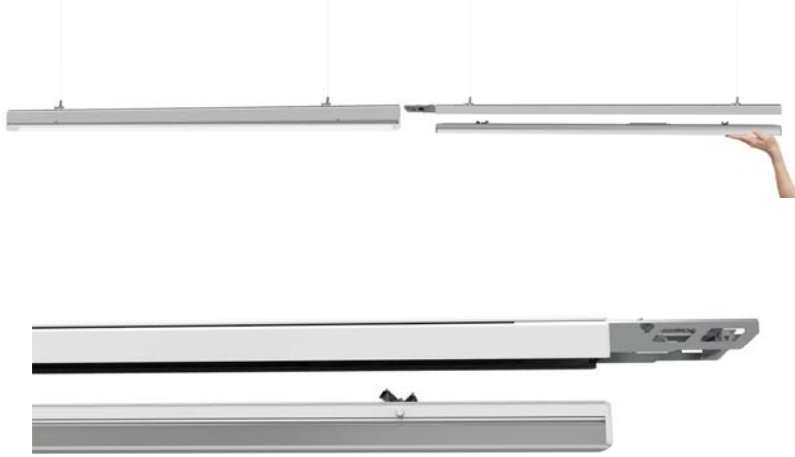


LM 79

LM 80

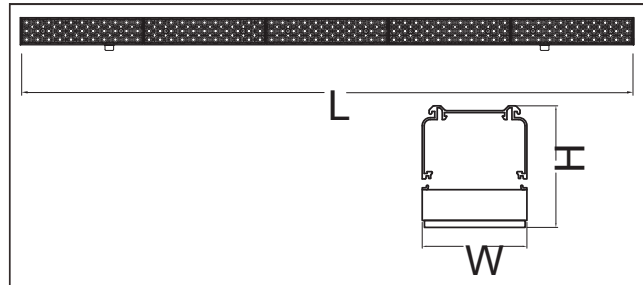
TM 21

Pirate IP40
Tri-proof Light Series



Features

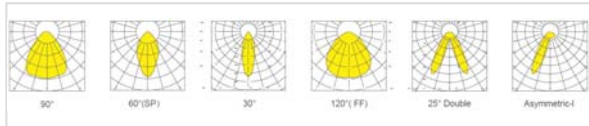
Housing: Pure Aluminum A6063
 Thermal Conductivity: 226 W/m·K
 Led: Luxeon
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Osram/ Philips/ Tridonic
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP Surge
 Protection: 2KV
 Waterproof: IP40
 Impact Test: IK02
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -10~40 °C
 TM21: L80B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



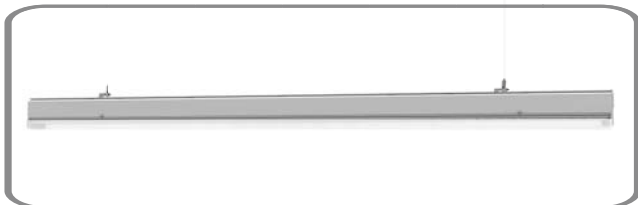
140-180lm/w

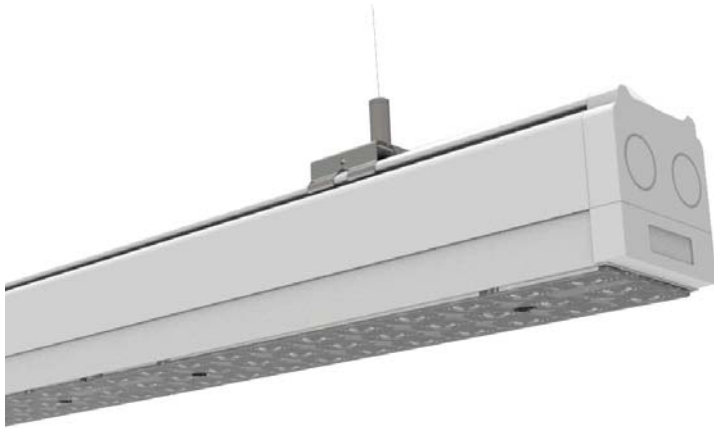
5 YEARS WARRANTY

Osram Driver

Luxeon LED

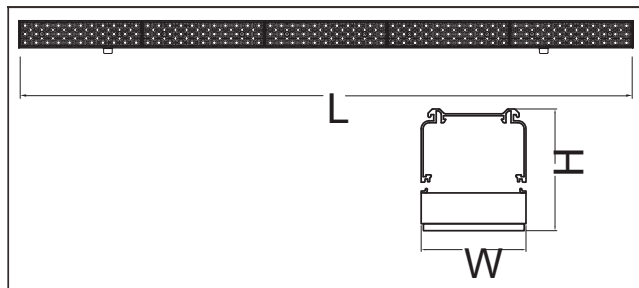
Model	Watt	Voltage	Lumen	CRI	IP	Dimension
PIRATE-L1450-60AD-S	60W adjust 50W 42W 32W by switch	220~240V	9000LM	>80	IP40	L1450*W70*H60MM
PIRATE-L1450-68AD-P	68W adjust 16W to 68W by resistor	220~240V	12000LM	>80	IP40	L1450*W70*H60MM
PIRATE-L1450-72AD-B	72W adjust 68W-64W-60W-58W-54W-52W-50W-48W-45W by switch	220~240V	9600LM	>80	IP40	L1450*W70*H60MM





Features

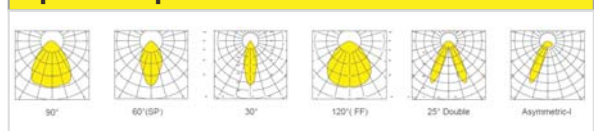
Housing: Pure Aluminum A6063
 Thermal Conductivity: 226 W/m·K
 Led: Luxeon
 CRI: Ra>80
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Osram/ Philips/ Tridonic
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP Surge
 Protection: 2KV
 Waterproof: IP54
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -20~50 °C
 TM21: L80B10>50,000H
 Lifetime: 100,000H



Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	CRI	IP	Dimension
PIRATE-L1450-60AD-S	60W adjust 50W 42W 32W by switch	220~240V	9000LM	>80	IP54	L1450*W70*H60MM
PIRATE-L1450-68AD-P	68W	220~240V	10200LM	>80	IP54	L1450*W70*H60MM
PIRATE-L1450-72AD-B	72W adjust 68W-64W-60W-58W-54W-52W-50W-48W-45W by switch	220~240V	11000LM	>80	IP54	L1450*W70*H60MM



LED GROW LIGHT

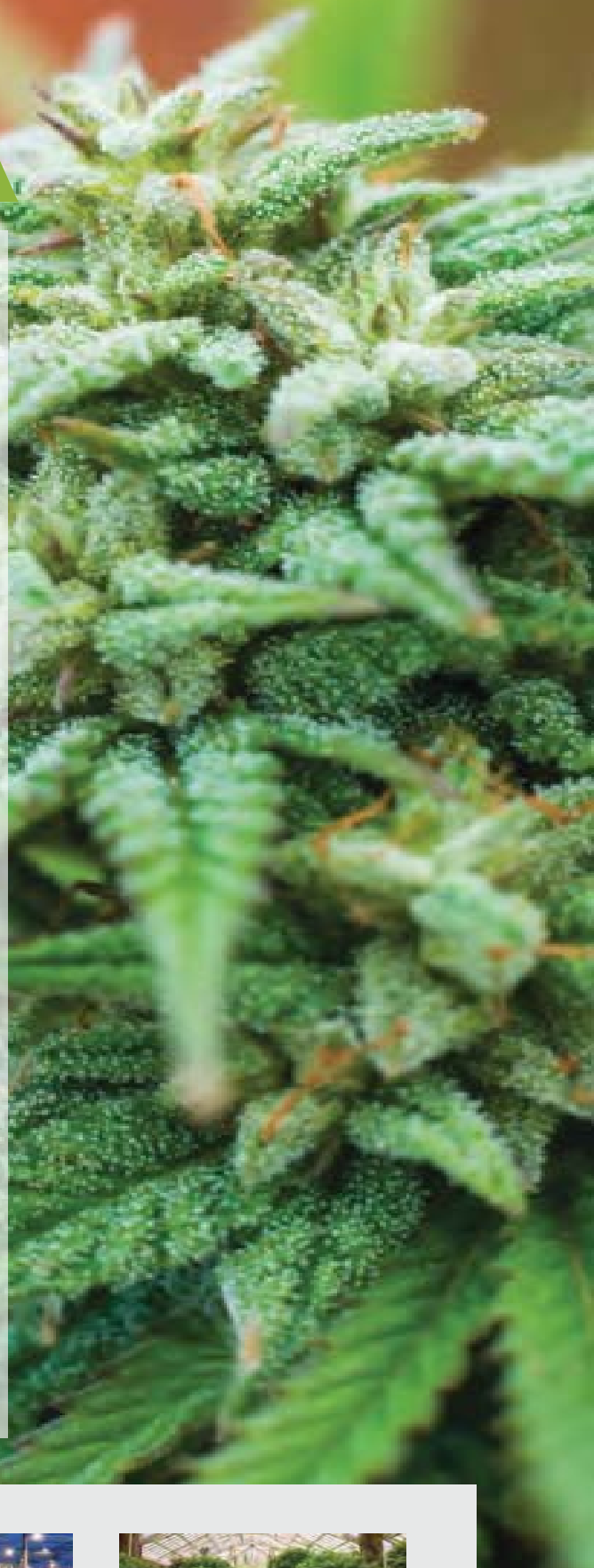
Sniper growSeries

Full Spectrum

Our harvest series grow light is designed for indoor and greenhouse cultivation, and will increase the growth rate and yield of a wide variety of plants. The lights can be used for all phases of growing as they are dimmable, programmable, and individually controllable. It effectively supports photosynthesis while offering dynamic spectrum control where specific spectral ratios can be created to direct plant growth and promote healthy plant development.

Our LED Grow Lighting Offers:

- Optimized Spectrum**
Provides light only in the PAR region which is suitable for supporting each phase of growth and type of plant.
- Light Intensity**
Increased Photosynthetically Active Radiation (PAR) needed to support growth, development, and yield
- Heat Management**
Reduced heat and HVAC requirements reduce the amount of watering needed and increase the overall energy savings for greater crop yield per watt consumed.
- Energy Saving**
LED lighting saves up to 40% compared to traditional sources such as High Pressure Sodium (HPS), Metal Halide and fluorescents.
- Long Life**
LEDs last an average of 50,000 hours while reducing energy costs and maintenance costs due to frequently changing rapidly degrading traditional lamps.



Control Your Growing Season



More Light

Adds more daytime light, boosting existing light levels and increasing growth and yield.



Longer Light

Extends the growth cycle. Switch on at dusk for non-daylight illumination. Utilize all winter long.



Controlled Light

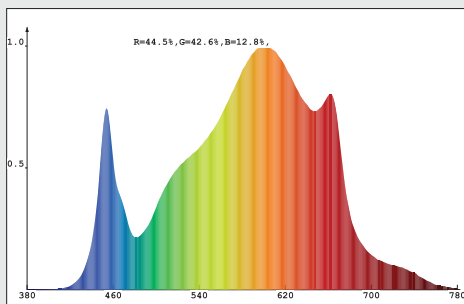
Substitute as a complete lighting solution for indoor grow rooms and biological research facilities.

Now LED lighting can significantly increase crop production efficiency through lighting control. LED grow lighting systems are well-suited to provide the most appropriate light for each phase of growth and type of plant, from seedling to flowering to fruiting. LED lighting provides optimal levels of Photosynthetically Active Radiation (PAR)-the photons that promote growth and yield without wasting energy to produce photons not efficiently used by the plant. The optimum spectrum for plants includes wavelengths of light in the blue and red region of the spectrum.



When using light quality as a tool for controlling plant growth, it is important to establish production requirements, and use light accordingly to achieve specific growth goals. In general, red light will increase stem elongation, while blue light promotes plant compactness and root growth, and is important for plant morphology, photosynthesis, and overall plant health.

We recommend that growers begin by using our LED grow light with standard spectrum settings (Type B). Growers can then adjust spectral ratios and test accordingly to optimize your grow for desired varieties and specific characteristics.

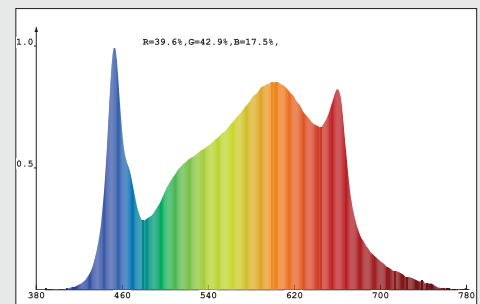


Type A: 3000K+5000K+660nm+730nm

Full Spectrum with enhanced red and far red

Application

DIY, TENT

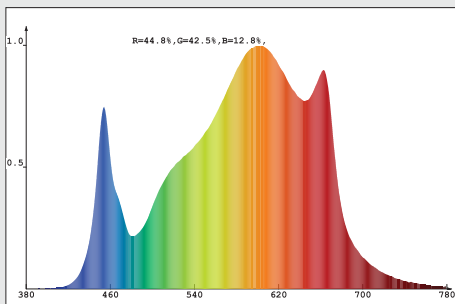


Type B: 3000K+5000K+660nm

Full spectrum with enhanced blue

Application

Greenhouse

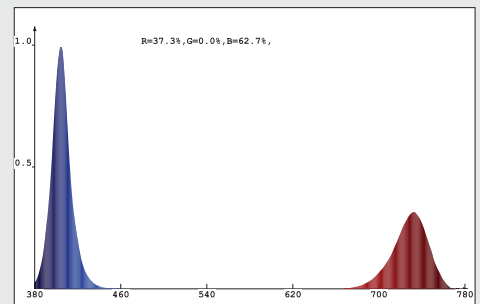


Type C: 3000K+5000K+660nm

Full spectrum with balanced blue

Application

Indoor grow room



Type D: 730nm+400nm

Enhanced far red and UV light

Application

For flowering stage



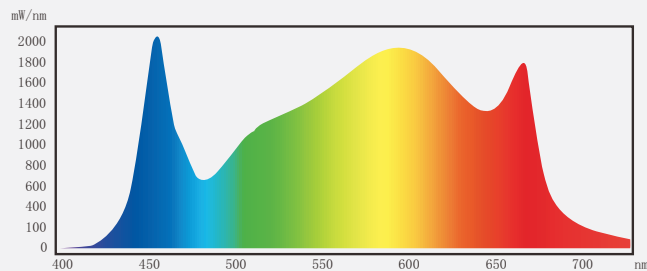
Our led light improves
the **quality** and **quantity**
of your Sniper-grow.

Our combination of white and red LEDs result in a relatively high ratio of blue light. Blue light keeps your crop compact in the vegetative stage and adds to an optimal morphogenesis and light interception by the plant. It maintains the photosynthetic system of the plant to optimize its photosynthetic potential and can shorten your flowering period. Blue light also triggers stomatal opening during the light period. The spread of red LEDs in the array guarantees a uniformly mixed spectrum on your crop at short distance. A full spectrum increases the quality of your crop.



- High efficiency: 2.7 $\mu\text{mol/s/w}$
- L90B10>50,000H
- Reduced HVAC: 40-50%
- High quality: 5 years warranty
- Balanced full spectrum
- Smart control

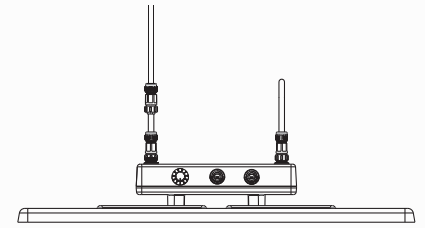
Housing:	Pure Aluminum
Thermal Conductivity:	226 W/m·K
Spectrum:	Full Spectrum
Efficacy:	2.7 $\mu\text{mol/J}$
CRI:	Ra>90
Light Distribution:	120°
Dimming:	1-10V / Knob Dim
Thermal Management:	Passive
Power Factor:	>0.95
Driver:	Sosen
Protection:	OTP, OCP, OVP, SCP
Surge Protection:	4KV
Waterproof:	IP65
Impact Test:	IK10
Electrical:	100-277V, 50/60Hz
Operating Temperature:	-40~50°C



Model: Sniper-N1-60M

Actual Power:	60W
Spectrum:	3000k+5000k+660nm+730nm
Lumen:	11400lm
Efficacy:	2.7 umol/J
PPF:	162 umol/s
HPS Equivalent:	250W

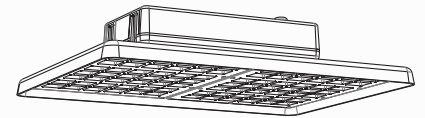
Flowering Footprint:	3*3'
Veg Footprint:	3*3'
Mounting Height:	12"(30cm) from crop
Dimension:	L14.2"W10.1"H4.7inch L362"W257"H120mm
Weight:	N.W.: 8.8lb / 4kg G.W.: 9.9lb / 4.5kg
Package:	18.1*13*6.9inch 460*330*175mm



Model: Sniper-N1-100M

Actual Power:	100W
Spectrum:	3000k+5000k+660nm+730nm
Lumen:	19000lm
Efficacy:	2.7 umol/J
PPF:	270 umol/s
HPS Equivalent:	400W

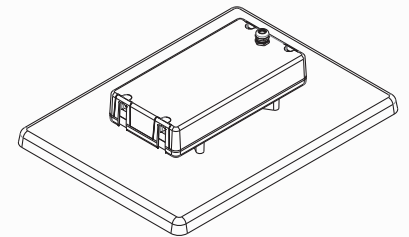
Flowering Footprint:	4*4'
Veg Footprint:	4*4'
Mounting Height:	12"(30cm) from crop
Dimension:	L14.2"W10.1"H4.7inch L362"W257"H120mm
Weight:	N.W.: 8.8lb / 4kg G.W.: 9.9lb / 4.5kg
Package:	18.1*13*6.9inch 460*330*175mm



Model: Sniper-N2-200M

Actual Power:	200W
Spectrum:	3000k+5000k+660nm+730nm
Lumen:	38000lm
Efficacy:	2.7 umol/J
PPF:	540 umol/s
HPS Equivalent:	600W

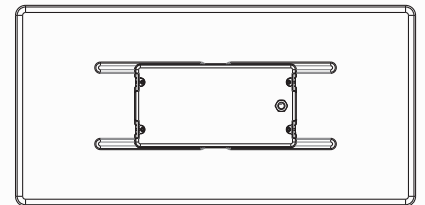
Flowering Footprint:	4*4'
Veg Footprint:	5*5'
Mounting Height:	12"(30cm) from crop
Dimension:	L19.2"W14.2"H4.7inch L487"W362"H120mm
Weight:	N.W.: 13.9lb / 5.3kg G.W.: 11.6lb / 6.3kg
Package:	22.0*16.9*6.9inch 560*430*175mm



Model: Sniper-N3-320M

Actual Power:	320W
Spectrum:	3000k+5000k+660nm+730nm
Lumen:	60800lm
Efficacy:	2.7 umol/J
PPF:	864 umol/s
HPS Equivalent:	1000W

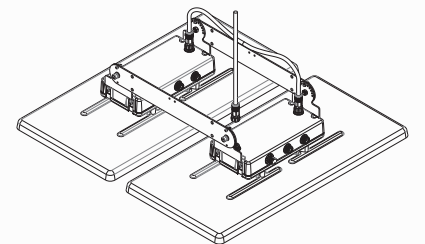
Flowering Footprint:	4*5'
Veg Footprint:	5*6'
Mounting Height:	12"(30cm) from crop
Dimension:	L28.3"W14.3"H5.1inch L720"W365"H130mm
Weight:	N.W.: 15.4lb / 7.0kg G.W.: 18.5lb / 8.4kg
Package:	32.3*17.5*7.6inch 820*445*195mm



Model: Sniper-N4-640M

Actual Power:	640W
Spectrum:	3000k+5000k+660nm
Lumen:	121600lm
Efficacy:	2.7 umol/J
PPF:	1728 umol/s
HPS Equivalent:	2X1000W

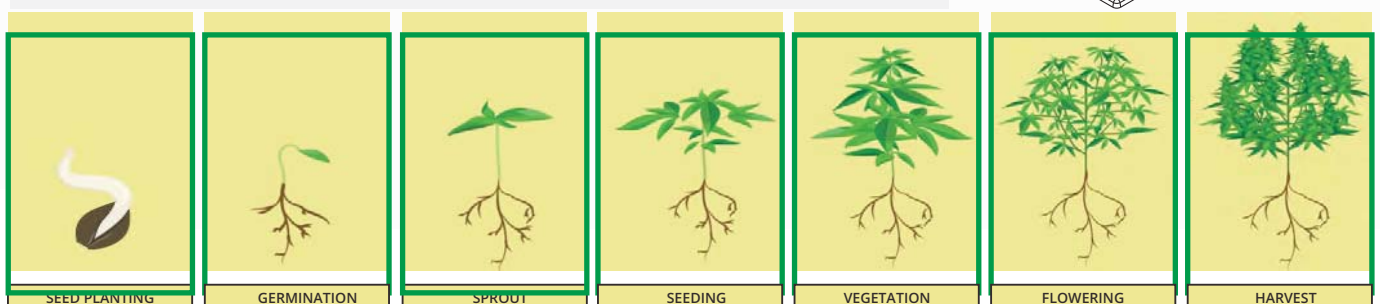
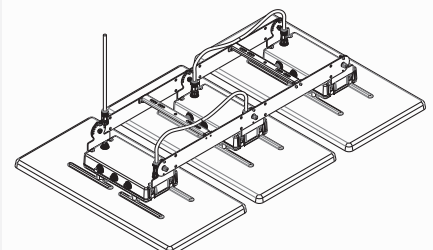
Flowering Footprint:	5*6'
Veg Footprint:	6*7'
Mounting Height:	12"(30cm) from crop
Dimension:	L30.0"W28.3"H7.4inch L771"W718.4"H187mm
Weight:	N.W.: 30.8lb / 14kg G.W.: 37.0lb / 16.8kg
Package:	2 modules 32.3*17.5*7.6inch 820*445*195mm



Model: Sniper-N5-960M

Actual Power:	960W
Spectrum:	3000k+5000k+660nm
Lumen:	182400lm
Efficacy:	2.7 umol/J
PPF:	2592 umol/s
HPS Equivalent:	3X1000W

Flowering Footprint:	5*7'
Veg Footprint:	6*8'
Mounting Height:	12"(30cm) from crop
Dimension:	L46.5"W28.3"H7.4inch L1181"W718.4"H187mm
Weight:	N.W.: 46.2lb / 21.0kg G.W.: 55.5lb / 25.2kg
Package:	3 modules 32.3*17.5*7.6inch 820*445*195mm

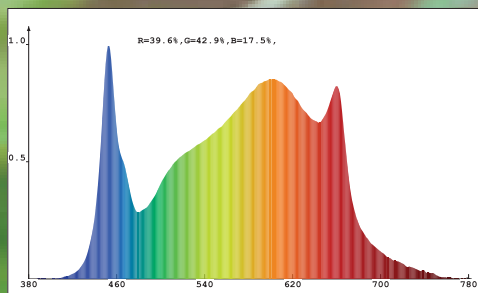


LED GROW LIGHT

Foison Series

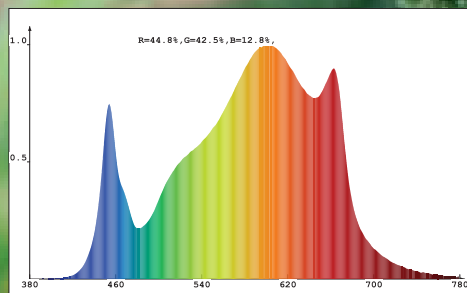
Full Spectrum

Our Foison series grow light is designed for indoor and greenhouse cultivation, and will increase the growth rate and yield of a wide variety of plants. The lights can be used for all phases of growing as they are dimmable, programmable, and individually controllable. It effectively support photosynthesis while offering dynamic spectrum control where specific spectral ratios can be created to direct plant growth and promote healthy plant development.



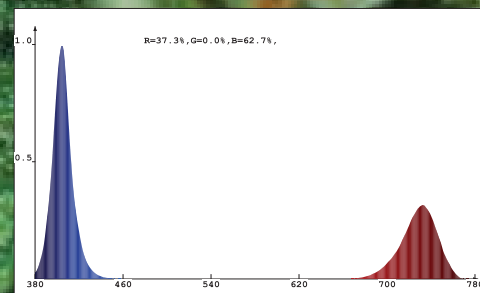
Type B: 3000K+5000K+660nm
Full spectrum with enhanced blue

Application
Greenhouse



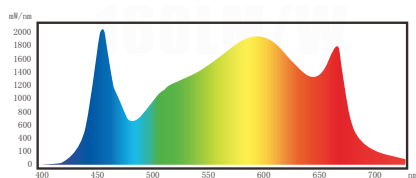
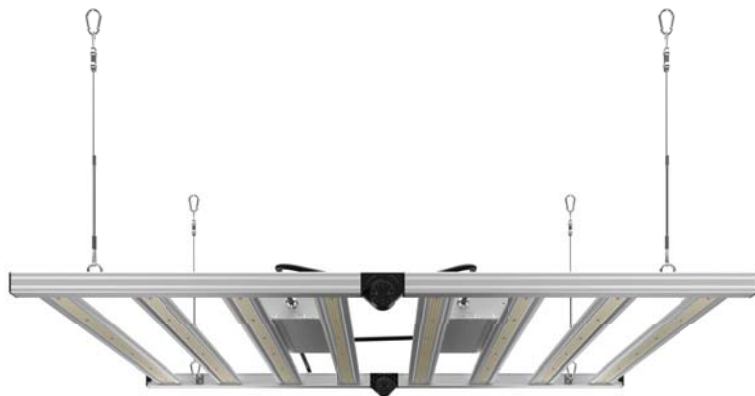
Type C: 3000K+5000K+660nm
Full spectrum with balanced blue

Application
Indoor grow room



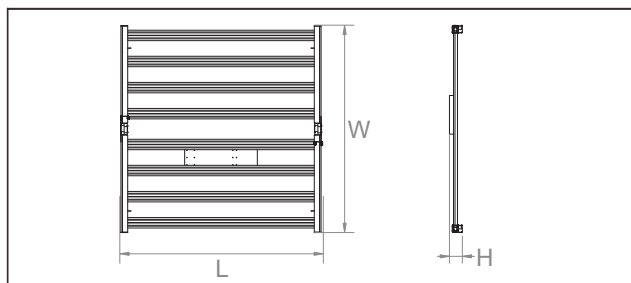
Type D: 730nm+400nm
Enhanced far red and UV light

Application
For flowering stage



Features

Housing: Pure Aluminum
 Thermal Conductivity: 226 W/m·K
 Spectrum: Full spectrum
 CRI: Ra>90
 Efficacy: 2.7umol/j
 Power Factor: >0.95
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 10KV
 Waterproof: IP54
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H



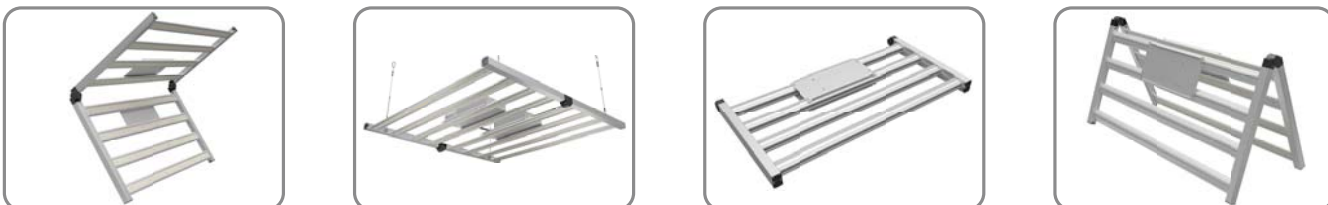
Functions

1-10V Knob Dim

Optical options:



Model	Watt	Voltage	Effi.	PPF	IP	Dimension
PG-N1-640-FE	640W	100~277V	2.7 umol/s/w	1728 umol/s	IP54	1110*1098*80
PG-N1-720-FE	720W	100~277V	2.7 umol/s/w	1944 umol/s	IP54	1110*1098*80
PG-N1-960-FE	960W	100~277V	2.7 umol/s/w	2592 umol/s	IP54	1110*1098*80





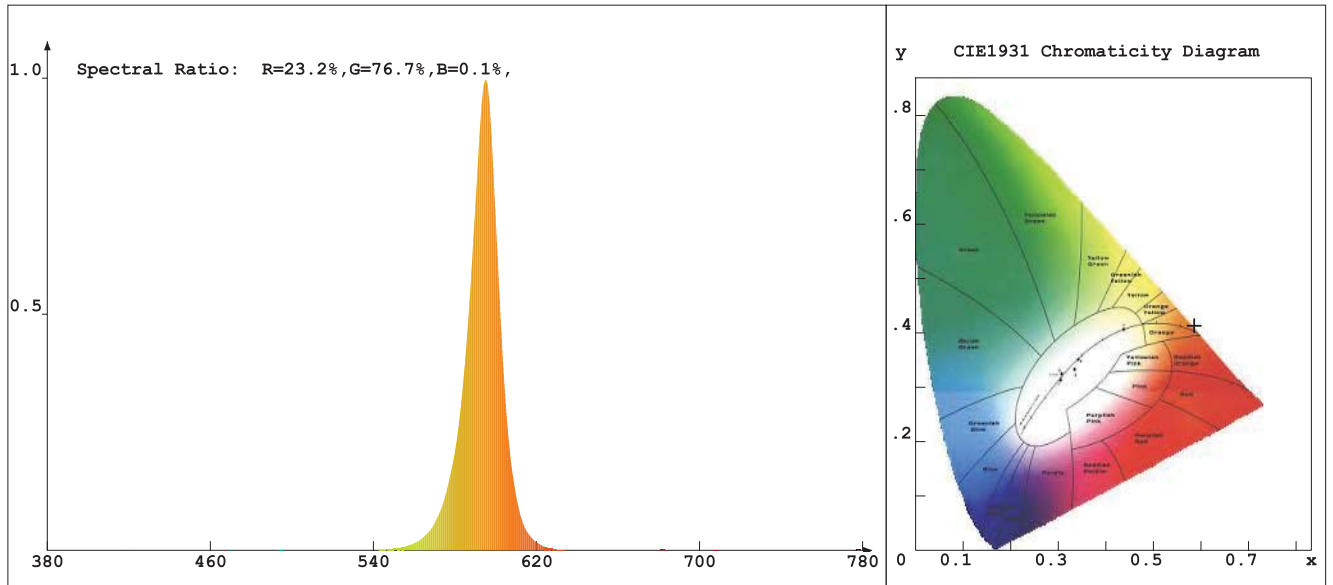
LED CELLAR LIGHT

“At the beginning of the 20th century, light had been verified that can present organoleptic risks to our wines. UV is not the only cause of deviations, certain wavelengths in the visible are harmful to our wines, especially in the lower spectrum (blue cyan). Even short light exposures have a cumulative effect on the appearance of the taste. Our Cellar light with a narrow spectrum and centered on 590 nm, is the most protective and ideal solution for this application.

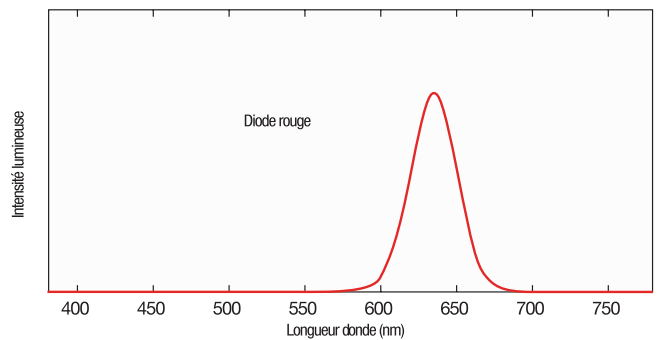
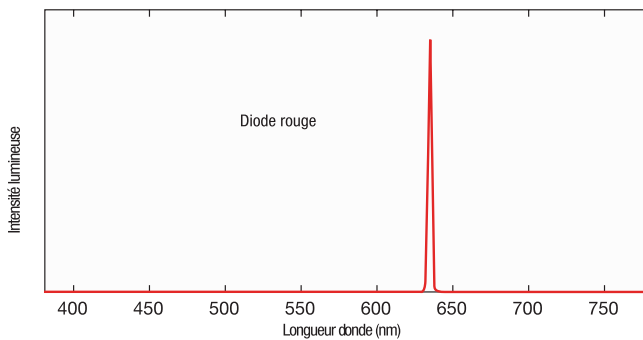


Solution for Cellar

In the cellar storage areas, lighting should be as protective as possible. The emission spectrum to choose is therefore a narrow spectrum and centered on 590 nm. But this choice should not be made on the visual rendering of the lighting. Our Celler light has perfect light emission spectrum, which protects the taste of wine.



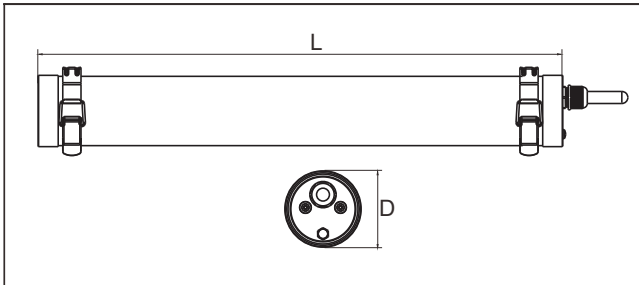
As proof, a test carried out with two lamps both with a spectrum whose maximum peak is located at 590 nm, but with different emission spectra as shown in Figure below. The left doesn't change the wine, while the right causes deviations.





Features

Housing: PMMA
 Thermal Conductivity: 226 W/m·K
 Led: Osram
 Wave: 590nm
 SDCM: <6
 Power Factor: >0.90
 THD: <15
 Driver: Osram
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 2KV
 Waterproof: IP69K
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -20~45C°
 TM21: L80B10>50,000H
 Lifetime: 50,000H



Functions

ZigBee • PWM • DALI • 0/1~10V • Micro-wave

Optical options:



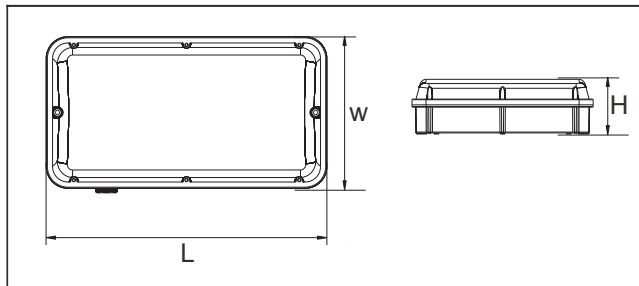
Model	Watt	Voltage	Lumen	Wave Length	IP	Dimension
CL-L600-20-OO	20W	220~240V	1200LM	590NM	IP69K	L600*D81MM
CL-L1200-40-OO	40W	220~240V	2400LM	590NM	IP69K	L1200*D81MM
CL-L1500-60-OO	60W	220~240V	3600LM	590NM	IP69K	L1500*D81MM





Features

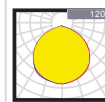
Housing: PC
 Cover: Prism
 Led: Osram
 Wave: 590nm
 SDCM: <6
 Power Factor: >0.90
 THD: <15
 Driver: Osram
 Driver Efficiency: >90%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 2KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 220-240V, 50/60Hz
 Operating Temperature: -20~45C°
 TM21: L80B10>50,000H
 Lifetime: 50,000H



Functions

ZigBee PWM DALI • 0/1~10V • Micro-wave

Optical options:



60 lm/w

5 YEARS WARRANTY

Osram Driver

Osram LED

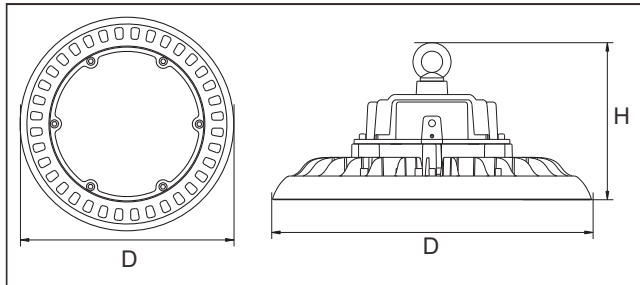
Model	Watt	Voltage	Lumen	Wave Length	IP	Dimension
CL-L274-10-OO	10W	220~240	600LM	590nm	IP65	L274*W148*H82.5MM
CL-L274-16-OO	16W	220~240	960LM	590nm	IP65	L274*W148*H82.5MM





Features

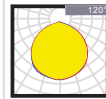
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: Osram
 Wave: 590nm
 Power Factor: >0.90
 THD: <15
 Driver: Sosen
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 4KV
 Waterproof: IP65
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~60C°
 TM21: L80B10>50,000H
 Lifetime: 50,000H



Functions

ZigBee • PWM • DALI • 0/1~10V • Micro-wave

Optical options:



Model	Watt	Voltage	Lumen	Wave Length	IP	Dimension
CL-N1-100-OS	100W	100~277	6000LM	590nm	IP65	Φ258*139
CL-N2-150-OS	150W	100~277	9000LM	590nm	IP65	Φ299*139
CL-N3-200-OS	200W	100~277	12000LM	590nm	IP65	Φ347*142

