



sop
save our planet



Leading the Green Initiatives

Marine/Industrial LED Lighting Solutions
Catalogue



With over a decade of experience and technical know-how, SOP (Save Our Planet) by Beng Hui Marine Electrical places emphasis in the design and development of ideal LED solutions- providing green and innovative energy efficient technologies and meeting demands of the harsh Marine environment at the same time. Missioned to “Save our Planet”, SOP is focused on creating innovative, reliable and quality lights to lead the Green Initiatives.

LED optimizes energy consumption as compared to conventional lighting, reduces maintenance through improved durability and allows great savings to one's electricity consumption.

Selecting the right LED lighting for your applications remains a challenge for many owners, facilities managers or buyers. Most of the consumers are used to the traditional fluorescent lamps, incandescent bulbs or even the high intensity discharge lamps, available in fixed wattage with similar lumen output, similar lamp service life, standard lamp bases and similar conventional housing.

SOP pledges to deliver the highest-quality range of reliable LED lighting, allowing you to maximise your investment in operations and reducing your maintenance needed.

Be it a new vessel or an upgrade, “Going Green” is one of the ways you can amortize your investment within 3- 4 years.



Design Support

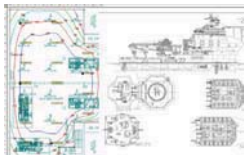
A good design is key to any lighting. With our technical know-how and in-house R&D capabilities, we are capable of LED engine design, Control hardware / software development, luminaire, electronic, optical and mechanical design.



Quality Component Integration

We make it a point to understand our clients' requirements and will be able to support in terms of:

Selecting suitable components to enhance product's efficiency and effectiveness, Tailoring products to customer's specific needs, adhering to environmental, safety and performance standards and the Continuous support in the supply of components, after sales service and product training.



Lux Calculation

We will provide complimentary lux calculation for all initial stages of planning/ design up to completion. We produce summary reports that states light levels, what luminaries to use etc. Information provided are verified by real life light measurements and will give you an accurate simulation.



Product demonstration

We will be keen to conduct a brief product introduction at your office for our range of lightings. This will allow the contractors/ end-users to take a look at the quality and performance of the product prior to specification or purchase. Samples can also be given for further review purposes.



Mock up

The team will be able to provide mock-ups prior to committing on the whole project. This allows the contractors/ end-users to be guaranteed that the lightings will perform equivalently on site. Based on the project requirements, we can install a small section of the lighting equipment on a provided mock up area. The contractors/ end-users can then evaluate the mock up and make any necessary amendments or adjustments before embarking on the project.



Installation service

Our installation team is made up of engineers and sub-contractors trained and experienced in complete lighting system installation providing you with quality service and a worry-free experience. It is crucial that the products are installed to abide by SOP's standards as well as local building and electrical regulations. A well-installed system will ensure a longer service life and better performance.



Extended warranty

Extended warranty is available upon request, we look forward to ensuring your product is guaranteed to work for its longest service life possible.

Saving with SOP LED Lighting Solutions

Comparison of Traditional Lighting with SOP LED Light

Type / Description	Total No of Lamps	System Power	Operation Hours	kWh/year
Electricity Consumption for Traditional Lighting				
2 Feet Fluorescent Fitting, 18W T8 Fluorescent Tube	100	*32	24	28,032
4 Feet Fluorescent Fitting, 36W T8 Fluorescent Tube	100	*48	24	42,048
Electricity Consumption for LED Lighting				
2 Feet LED Luminaire, 12.5W 2 Feet SOP LED Linear Lamp	100	12.5	24	10,950
4 Feet LED Luminaire, 24W 4 Feet SOP LED Linear Lamp	100	24	24	21,024

*Ballast Loss based on Magnetic Ballast

	Fluorescent Tube (2Ft 18W)	SOP LED Lamp (2Ft 12.5W)	Fluorescent Tube (4Ft 36W)	SOP LED Lamp (4Ft 24W)
Energy Consumption (kWh) Per year	28,032	10,950	42,048	21,024
Energy Savings (kWh) per year	17,082		21,024	
Savings of Energy (Annually)	SGD 2,562.30		SGD 3,153.60	

*Above calculation based on example of 100 lamps with Energy Cost : S\$0.15 per kWh

- Energy saving up to 60%
- Long service life of 50,000 hours at 45°C operating temperature
- Reduced maintenance & operation costs
- Minimize spares on board

Easy Retrofitting and Installation onboard Vessel



Secure the gear tray and cover, back to luminaire and ready to be used



Connect the wire to the power supply



Drill hole on gear tray to secure the lamp clip



On board Watertight Fixture



Remove the watertight cover

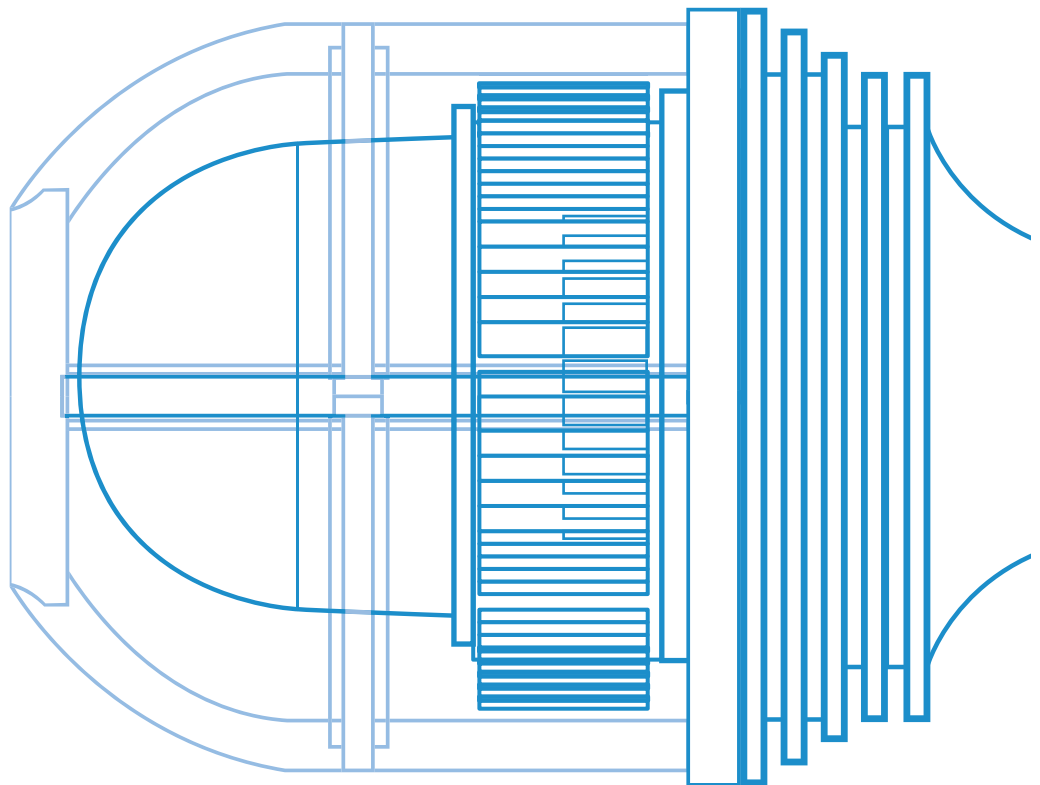


Remove the gear tray and disconnect supply cable

LED MODULE SERIES

GLOWING IN DARKNESS

SOP LED Module Series is designed to be energy efficient and highly versatile. It has various applications to cater to different needs with easy installation methods. The LED light source is made to be shock resistant with polycarbonate diffuser and comes with different guards available to suit various applications.



LED PORTABLE WORK LIGHT



HG SERIES



Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards

Material

Marine grade aluminium alloy with powder coating and polycarbonate body, diffuser and guard

Options

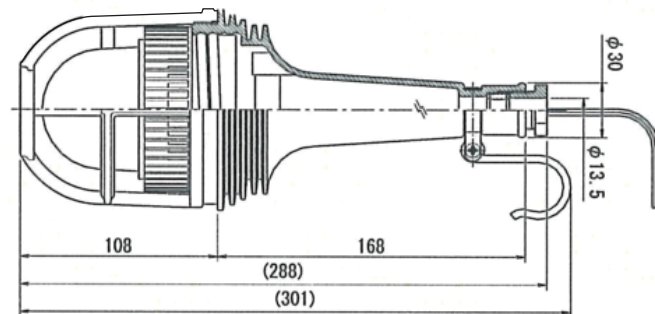
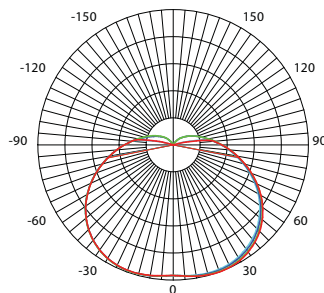
Polycarbonate clear guard (PC)
Polycarbonate red guard (PR)

Weight

1.0Kg

Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Triac dimming compatible (220-240VAC & 100V-120VAC only)
- Vibration-resistant
- Alternative to 100W incandescent bulb
- Energy savings of up to 90% compared to 100W incandescent bulb
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance



TECHNICAL SPECIFICATIONS IP 56

- PC Denotes : Polycarbonate clear guard
- PR Denotes : Polycarbonate red guard

Ideal Replacement:



BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
IGLAHGLS10A2PC	HG-LS10A2PC	220V - 240V AC	13W	5000K	160°	-40°C ~ +45°C	900lm
IGLAHGLS10A1PC	HG-LS10A1PC	100V - 120V AC	12W	5000K	160°	-40°C ~ +45°C	900lm
IGLAHGLS10DPR	HG-LS10DPR	24V DC	10W	5000K	160°	-40°C ~ +45°C	950lm

Also available in other CCT.



LED PORTABLE CARGO LIGHT



HG SERIES



Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards

Material

Marine grade aluminium alloy with powder coating and polycarbonate body, diffuser and guard

Options

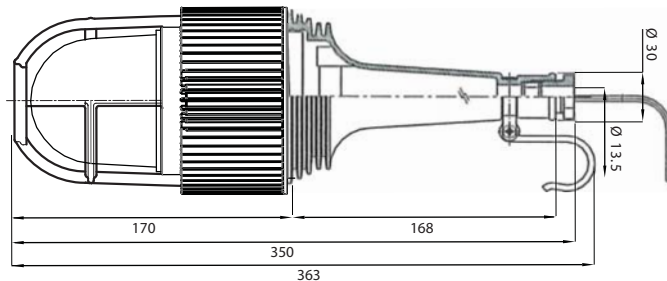
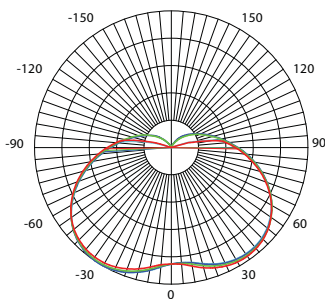
Polycarbonate clear guard (PC)
Polycarbonate red guard (PR)

Weight

1.5Kg

Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Vibration-resistant
- Alternative to 300W incandescent bulb
- Energy savings of up to 90% compared to 300W incandescent bulb
- Long service life of 30,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance



TECHNICAL SPECIFICATIONS IP 56

- PC Denotes : Polycarbonate clear guard
- PR Denotes : Polycarbonate red guard

Ideal Replacement:



BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp	System Lumen
IGLAHGLS30APC	HG-LS30APC	100V - 240V AC	30W	5000K	180°	-40°C ~ +45°C	2900lm
IGLAHGLS30A1PC	HG-LS30A1PC	100V - 120V AC	30W	5000K	180°	-40°C ~ +45°C	2900lm
IGLAHGLS30D1PC	HG-LS30D1PC	110V DC	30W	5000K	180°	-40°C ~ +45°C	2900lm

Also available in other CCT.



LED PENDANT LIGHT



EG SERIES



Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Triac dimming compatible (220-240VAC & 100V-120VAC only)
- Vibration-resistant
- Alternative to 100W incandescent bulb
- Energy savings of up to 90% compared to 100W incandescent bulb
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance



Application

Engine rooms, Low visibility areas,
Decks, Warehouses, Yards

Material

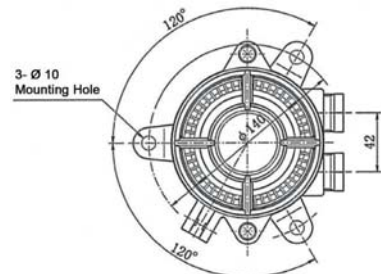
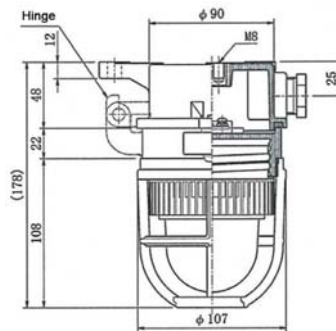
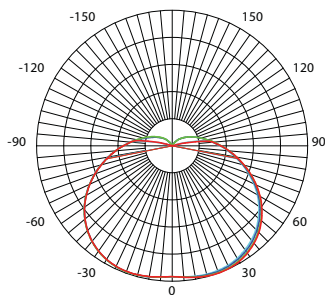
Marine grade aluminium alloy with powder coating and PBT fiberglass reinforced body, polycarbonate diffuser and guard

Options

Polycarbonate clear guard (PC)
Polycarbonate red guard (PR)

Weight

1.0Kg



TECHNICAL SPECIFICATIONS IP 56

- PC Denotes : Polycarbonate clear guard
- PR Denotes : Polycarbonate red guard

Ideal Replacement:

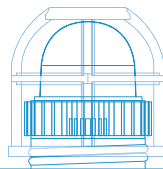


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
IGLAEGLS10A2PC	EG-LS10A2PC	220V - 240V AC	13W	5000K	160°	-40°C ~ +45°C	900lm
IGLAEGLS10A1PC	EG-LS10A1PC	100V - 120V AC	12W	5000K	160°	-40°C ~ +45°C	900lm
IGLAEGLS10DPR	EG-LS10DPR	24V DC	10W	5000K	160°	-40°C ~ +45°C	950lm

Also available in other CCT.



LED PENDANT LIGHT



EG SERIES



Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Vibration-resistant
- Alternative to 300W incandescent bulb
- Energy savings of up to 90% compared to 300W incandescent bulb
- Long service life of 30,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance

Application

Engine rooms, Low visibility areas,
Decks, Warehouses, Yards

Material

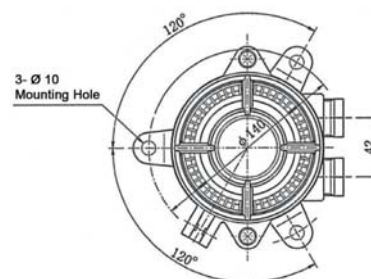
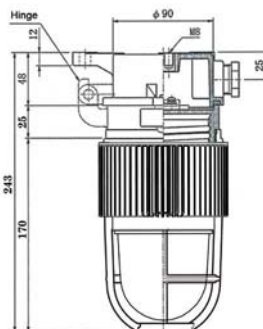
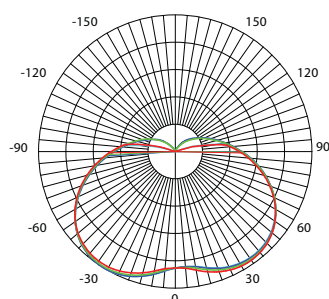
Marine grade aluminium alloy with powder coating and PBT fiberglass reinforced body, polycarbonate diffuser and guard

Options

Polycarbonate clear guard (PC)
Polycarbonate red guard (PR)

Weight

1.5Kg



TECHNICAL SPECIFICATIONS IP 56

- PC Denotes : Polycarbonate clear guard
- PR Denotes : Polycarbonate red guard

Ideal Replacement:



BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
IGLEGLMU03050PC	EG-LMU03050PC	100V - 240V AC/DC	30W	5000K	180°	-40°C ~ +45°C	2900lm
IGLEGLMU03050PR	EG-LMU03050PR	100V - 240V AC/DC	30W	5000K	180°	-40°C ~ +45°C	2900lm

Also available in other CCT.



LED WALL LIGHT



BG SERIES



Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Triac dimming compatible (220-240VAC & 100V-120VAC only)
- Vibration-resistant
- Alternative to 100W incandescent bulb
- Energy savings of up to 90% compared to 100W incandescent bulb
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance,



Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards

Material

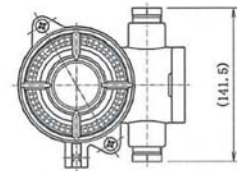
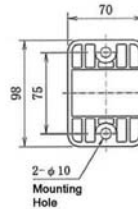
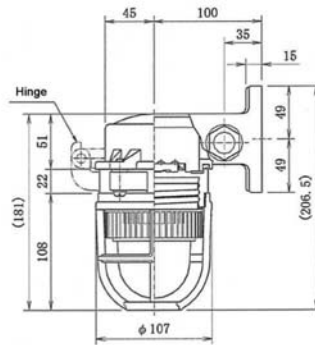
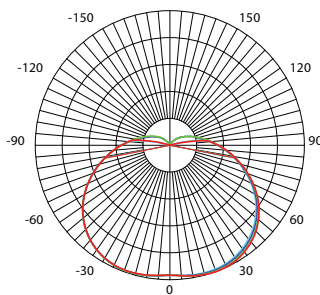
Marine grade aluminium alloy with powder coating and PBT fiberglass reinforced body, polycarbonate diffuser and guard

Options

Polycarbonate clear guard (PC)
Polycarbonate red guard (PR)

Weight

1.0Kg



TECHNICAL SPECIFICATIONS IP 56

- PC Denotes : Polycarbonate clear guard
- PR Denotes : Polycarbonate red guard

Ideal Replacement:

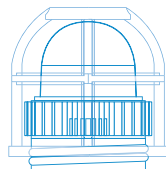


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
IGLABGLS10A2PC	BG-LS10A2PC	220V - 240V AC	13W	5000K	160°	-40°C ~ +45°C	900lm
IGLABGLS10A1PC	BG-LS10A1PC	100V - 120V AC	12W	5000K	160°	-40°C ~ +45°C	900lm
IGLABGLS10DPR	BG-LS10DPR	24V DC	10W	5000K	160°	-40°C ~ +45°C	950lm

Also available in other CCT.



LED WALL LIGHT



FG SERIES



Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Triac dimming compatible (220-240VAC & 100V-120VAC only)
- Vibration-resistant
- Alternative to 100W incandescent bulb
- Energy savings of up to 90% compared to 100W incandescent bulb
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance



Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards

Material

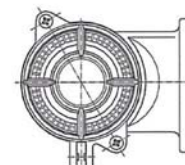
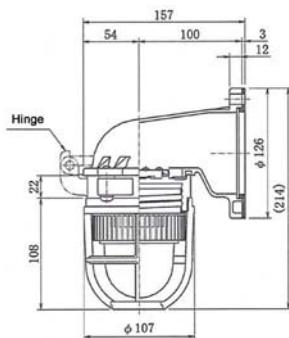
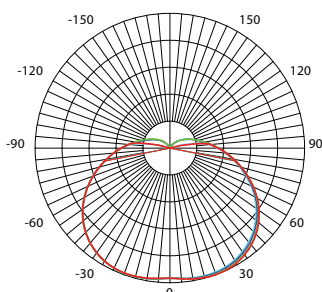
Marine grade aluminium alloy with powder coating and PBT fiberglass reinforced body, polycarbonate diffuser and guard

Options

Polycarbonate clear guard (PC)
Polycarbonate red guard (PR)

Weight

1.0Kg



TECHNICAL SPECIFICATIONS



- PC Denotes : Polycarbonate clear guard
- PR Denotes : Polycarbonate red guard

Ideal Replacement:

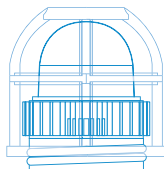


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
IGLAFGLS10A2PC	FG-LS10A2PC	220V - 240V AC	13W	5000K	160°	-40°C ~ +45°C	900lm
IGLAFGLS10A1PC	FG-LS10A1PC	100V - 120V AC	12W	5000K	160°	-40°C ~ +45°C	900lm
IGLAFGLS10DPR	FG-LS10DPR	24V DC	10W	5000K	160°	-40°C ~ +45°C	950lm

Also available in other CCT.



LED WALL LIGHT



FG SERIES



Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Vibration-resistant
- Alternative to 300W incandescent bulb
- Energy savings of up to 90% compared to 300W incandescent bulb
- Long service life of 30,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance

Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards

Material

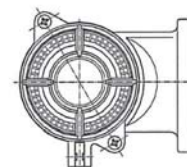
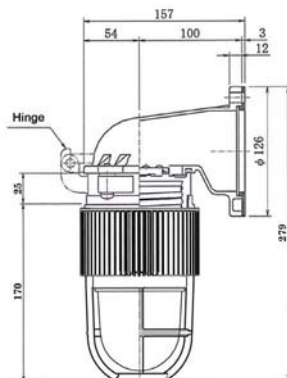
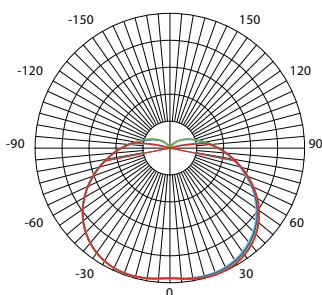
Marine grade aluminium alloy with powder coating and PBT fiberglass reinforced body, polycarbonate diffuser and guard

Options

Polycarbonate clear guard (PC)
Polycarbonate red guard (PR)

Weight

1.5Kg



TECHNICAL SPECIFICATIONS

IP 56

- PC Denotes : Polycarbonate clear guard
- PR Denotes : Polycarbonate red guard

Ideal Replacement:



BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
IGLFGLMU03050PC	FG-LMU03050PC	100V - 240V AC/DC	30W	5000K	180°	-40°C ~ +45°C	2900lm
IGLFGLMU03050PR	FG-LMU03050PC	100V - 240V AC/DC	30W	5000K	180°	-40°C ~ +45°C	2900lm

Also available in other CCT.



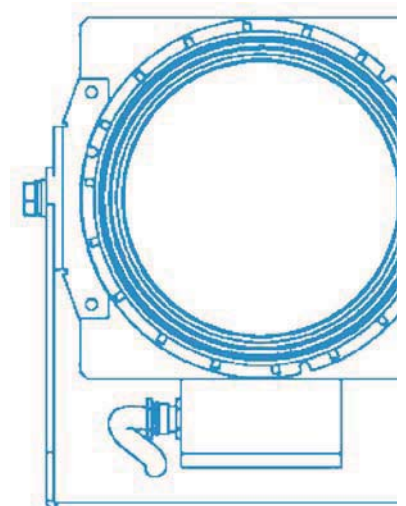
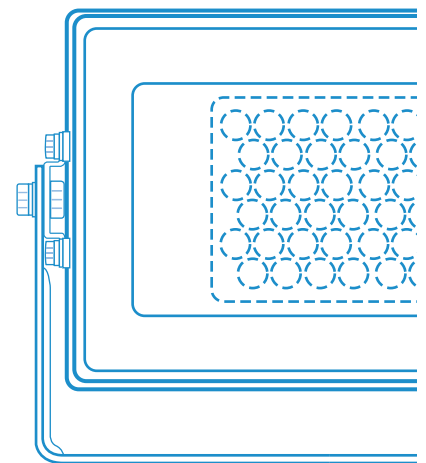
FLOODLIGHT SERIES

HIGHLIGHTING THE IMPORTANCE

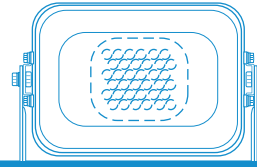
SOP Floodlights are fabricated to provide unparalleled light quality and saves up to 90% energy compared to halogen floodlight. Customized heat sink made from high thermal conductive aluminium material provides superior thermal management, optimizing the LED performances and ensuring long service life under extreme operating temperatures. The professional optical design creates high performance LED floodlight in its class.

IP 65

IP 66



HEAVY DUTY LED FLOODLIGHT



FL 80 SERIES



Key Features

- High efficient constant current AC driver to enhance reliability for AC series
- Vibration-resistant
- Long service life of >50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance

Application

Decks, Marinas, Docks

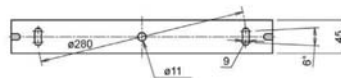
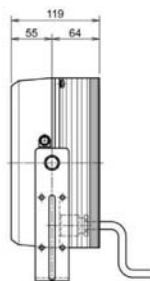
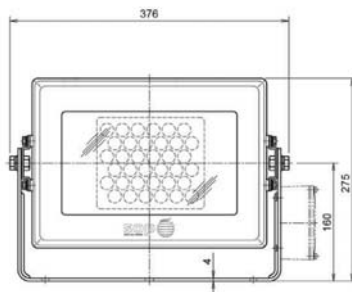
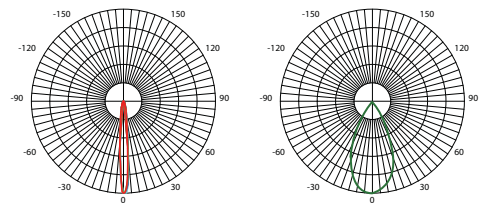
Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover and high-efficiency optical lens

Weight

FL85NAD/FL85FAD: 7.5Kg

FL80ND/FL80FD: 7.0Kg



Height	AVR E	Diameter
1.00m	8665.29lx	89.78cm
2.00m	2166.32lx	179.56cm
3.00m	962.81lx	269.34cm
4.00m	541.58lx	359.12cm
5.00m	346.61lx	448.90cm

Angle: 48.38°

TECHNICAL SPECIFICATIONS

IP 66

Ideal Replacement:

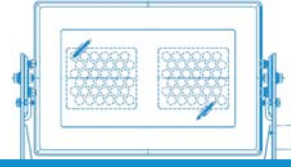


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAFL85NAD	FL85NAD	100V - 240V AC/DC	85W	5700K	10°	-20°C ~ +45°C	7550lm
LAFL85FAD	FL85FAD	100V - 240V AC/DC	85W	5700K	50°	-20°C ~ +45°C	7550lm
LAFL80ND	FL80ND	24V DC	80W	5700K	10°	-20°C ~ +45°C	7550lm
LAFL80FD	FL80FD	24V DC	80W	5700K	50°	-20°C ~ +45°C	7550lm

Also available in other CCT.



HEAVY DUTY LED FLOODLIGHT



FL 160 SERIES



Application

Decks, Marinas, Docks

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover and high-efficiency optical lens

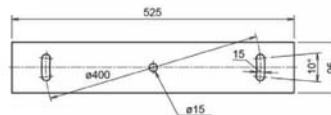
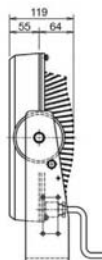
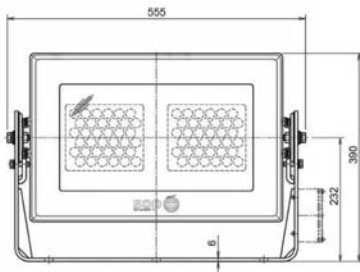
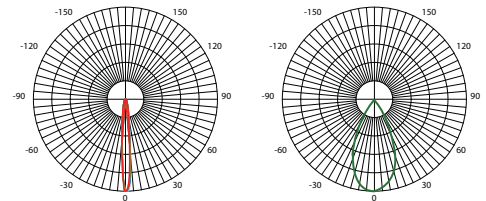
Weight

FL165NAD/FL165FAD: 16.5Kg

FL160ND/FL160FD: 15.5Kg

Key Features

- High efficient constant current AC driver to enhance reliability for AC series
- Vibration-resistant
- Long service life of >50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance



Height	AVRE	Diameter
1.00m	17503.88lx	86.91cm
2.00m	4375.96lx	176.69cm
3.00m	1944.87lx	266.47cm
4.00m	1093.99lx	356.25cm
5.00m	700.15lx	446.03cm

Angle: 48.38°

TECHNICAL SPECIFICATIONS IP 66

Ideal Replacement:

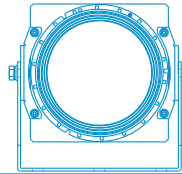


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAFL165NAD	FL165NAD	100V - 240V AC/DC	165W	5700K	10°	-20°C ~ +45°C	15150lm
LAFL165FAD	FL165FAD	100V - 240V AC/DC	165W	5700K	50°	-20°C ~ +45°C	15150lm
LAFL160ND	FL160ND	24V DC	160W	5700K	10°	-20°C ~ +45°C	15150lm
LAFL160FD	FL160FD	24V DC	160W	5700K	50°	-20°C ~ +45°C	15150lm

Also available in other CCT.



MODULAR LED FLOODLIGHT



MFL 1 SERIES



Wide beam model



Narrow beam model



*Protection guard is optional add-on

Key Features

- Triac dimming compatible (**220V-240VAC & 100V-120VAC only**)
- Designed with reliable AC driver on board to enhance the service life
- Rapid heat-dissipating design to prolong lamp life and optimise lumen output
- Long service life of 100,000 hours @ 50°C (Ta)
- Compact and lightweight design
- Interchangeable module
- Safety, EMC and IEC compliance



Application

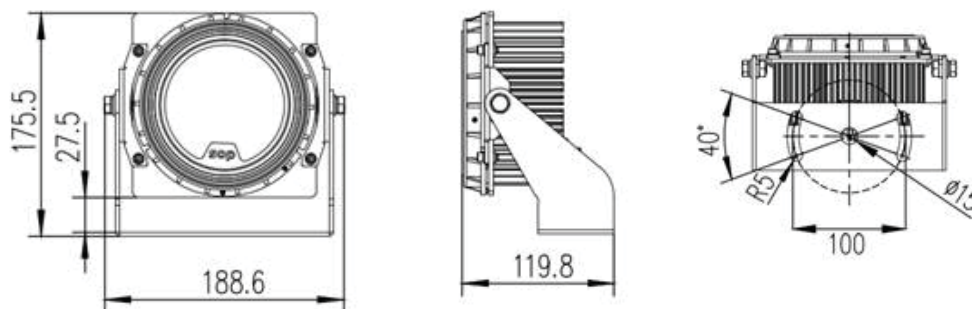
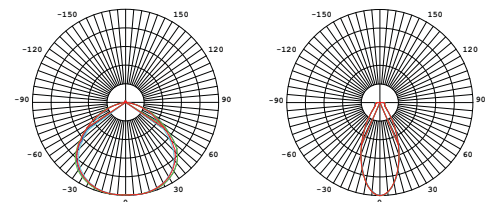
Decks, Marinas, Docks, Ports, Warehouses

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover
Optional protection guard: SUS316 stainless steel

Weight

1.9Kg



TECHNICAL SPECIFICATIONS IP 66

Ideal Replacement:



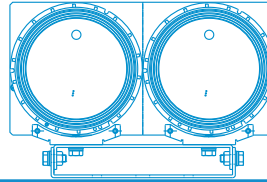
BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAMFL15FA2	MFL1FA2	220V - 240V AC	56W	5000K	115°	-40°C ~ +50°C	5500lm
LAMFL15NA2	MFL1NA2	220V - 240V AC	56W	5000K	45°	-40°C ~ +50°C	5400lm
LAMFL15FA1	MFL1FA1	100V - 120V AC	56W	5000K	105°	-40°C ~ +50°C	4500lm
LAMFL15NA1	MFL1NA1	100V - 120V AC	56W	5000K	45°	-40°C ~ +50°C	4500lm
LAMFL15FD	MFL1FD	24V DC	56W	5000K	130°	-40°C ~ +50°C	4900lm
LAMFL15ND	MFL1ND	24V DC	56W	5000K	35°	-40°C ~ +50°C	4600lm

Also available in other CCT and beam angle upon request.



Due to our continuous development and product improvement policy, we reserve the rights to revise the specifications of all products without prior notice.

MODULAR LED FLOODLIGHT



MFL 2 SERIES



Wide beam model



Narrow beam model

Key Features

- Triac dimming compatible (**220V-240VAC & 100V-120VAC only**)
- Designed with reliable AC driver on board to enhance the service life
- Rapid heat-dissipating design to prolong lamp life and optimise lumen output
- Long service life of 100,000 hours @ 50°C (Ta)
- Compact and lightweight design
- Interchangeable module
- Safety, EMC and IEC compliance



Application

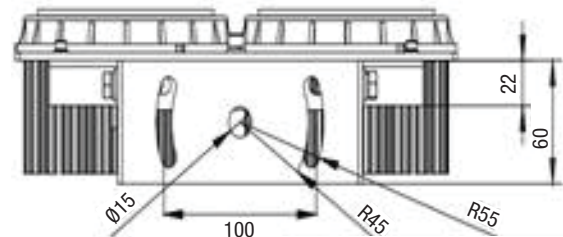
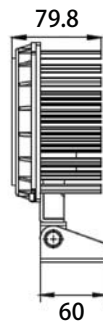
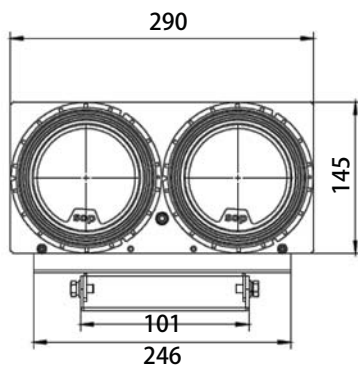
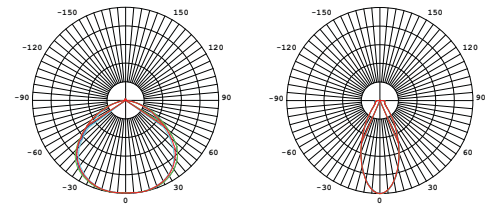
Decks, Marinas, Docks, Ports, Warehouses

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover

Weight

3.5Kg



TECHNICAL SPECIFICATIONS

IP 66

Ideal Replacement:

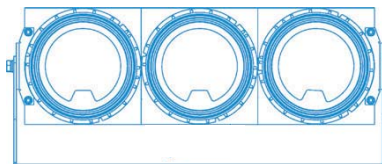


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAMFL25FA2	MFL2FA2	220V - 240V AC	112W	5000K	115°	-40°C ~ +50°C	11000lm
LAMFL25NA2	MFL2NA2	220V - 240V AC	112W	5000K	45°	-40°C ~ +50°C	10800lm
LAMFL25FA1	MFL2FA1	100V - 120V AC	112W	5000K	105°	-40°C ~ +50°C	9000lm
LAMFL25NA1	MFL2NA1	100V - 120V AC	112W	5000K	45°	-40°C ~ +50°C	9000lm
LAMFL25FD	MFL2FD	24V DC	112W	5000K	130°	-40°C ~ +50°C	9800lm
LAMFL25ND	MFL2ND	24V DC	112W	5000K	35°	-40°C ~ +50°C	9200lm

Also available in other CCT and beam angle upon request.



MODULAR LED FLOODLIGHT



MFL 3 SERIES



Wide beam model



Narrow beam model

Key Features

- Triac dimming compatible (**220V-240VAC & 100V-120VAC only**)
- Designed with reliable AC driver on board to enhance the service life
- Rapid heat-dissipating design to prolong lamp life and optimise lumen output
- Long service life of 100,000 hours @ 50°C (Ta)
- Compact and lightweight design
- Interchangeable module
- Safety, EMC and IEC compliance



Application

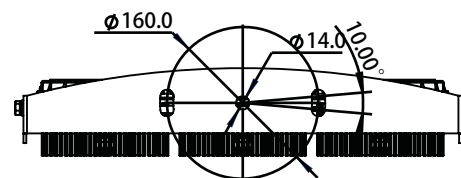
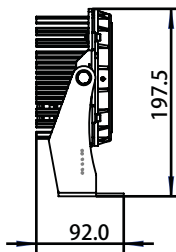
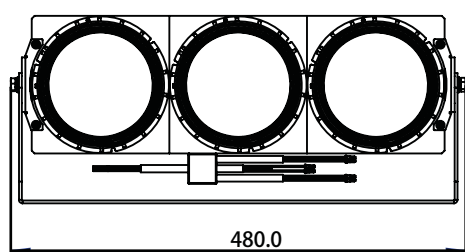
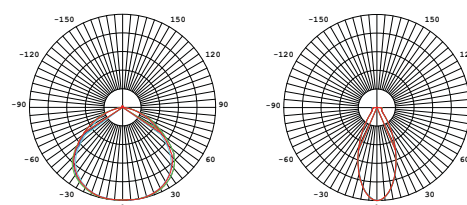
Decks, Marinas, Docks, Ports, Warehouses

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover

Weight

5.7Kg



TECHNICAL SPECIFICATIONS IP 66

Ideal Replacement:

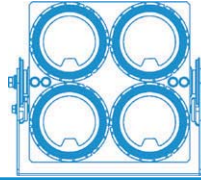


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAMFL35FA2OB	MFL3FA2	220V - 240V AC	168W	5000K	115°	-40°C ~ +50°C	16500lm
LAMFL35NA2OB	MFL3NA2	220V - 240V AC	168W	5000K	45°	-40°C ~ +50°C	16200lm
LAMFL35FA1OB	MFL3FA1	100V - 120V AC	168W	5000K	105°	-40°C ~ +50°C	13500lm
LAMFL35NA1OB	MFL3NA1	100V - 120V AC	168W	5000K	45°	-40°C ~ +50°C	13500lm
LAMFL35FDOB	MFL3FD	24V DC	168W	5000K	130°	-40°C ~ +50°C	14700lm
LAMFL35NDOB	MFL3ND	24V DC	168W	5000K	35°	-40°C ~ +50°C	13800lm

Also available in other CCT and beam angle upon request.



MODULAR LED FLOODLIGHT



MFL 4 SERIES



Wide beam model



Narrow beam model

Key Features

- Triac dimming compatible (**220V-240VAC & 100V-120VAC only**)
- Designed with reliable AC driver on board to enhance the service life
- Rapid heat-dissipating design to prolong lamp life and optimise lumen output
- Long service life of 100,000 hours @ 50°C (Ta)
- Compact and lightweight design
- Interchangeable module
- Safety, EMC and IEC compliance



Application

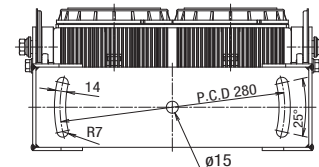
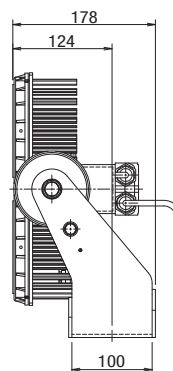
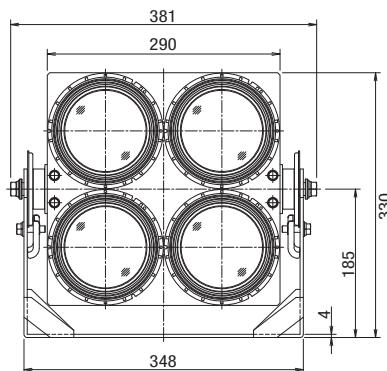
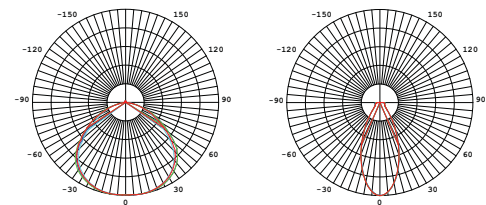
Decks, Marinas, Docks, Ports, Warehouses

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover

Weight

9.3Kg



TECHNICAL SPECIFICATIONS

IP 66

Ideal Replacement:

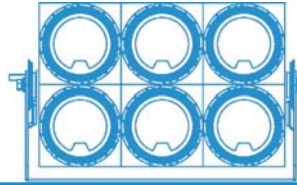


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAMFL45FA2	MFL4FA2	220V - 240V AC	224W	5000K	115°	-40°C ~ +50°C	22000lm
LAMFL45FA1	MFL4FA1	100V - 120V AC	224W	5000K	105°	-40°C ~ +50°C	18000lm
LAMFL45NA1	MFL4NA1	100V - 120V AC	224W	5000K	45°	-40°C ~ +50°C	18000lm
LAMFL45FD	MFL4FD	24V DC	224W	5000K	130°	-40°C ~ +50°C	19600lm
LAMFL45ND	MFL4ND	24V DC	224W	5000K	35°	-40°C ~ +50°C	18400lm

Also available in other CCT and beam angle upon request.



MODULAR LED FLOODLIGHT



MFL 6 SERIES



Wide beam model



Narrow beam model

Key Features

- Triac dimming compatible
- Designed with reliable AC driver on board to enhance the service life
- Rapid heat-dissipating design to prolong lamp life and optimise lumen output
- Long service life of 100,000 hours @ 50°C (Ta)
- Compact and lightweight design
- Interchangeable module
- Safety, EMC and IEC compliance

Application

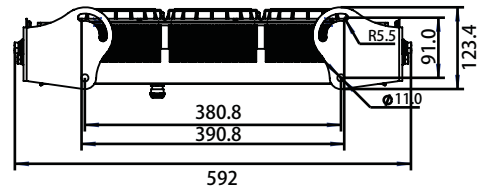
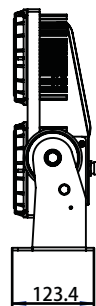
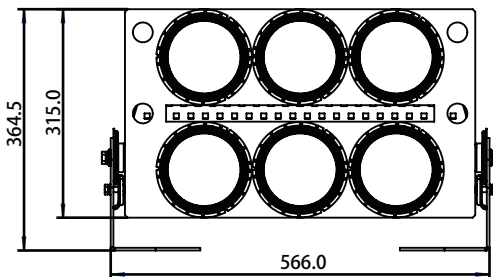
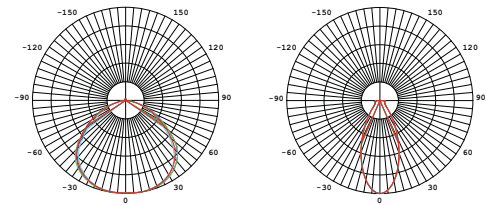
Decks, Marinas, Docks, Ports, Warehouses

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover

Weight

10.14Kg



TECHNICAL SPECIFICATIONS IP 66

Ideal Replacement:

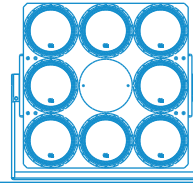


BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAMFL65FA2S	MFL6FA2S	220V - 240V AC	336W	5000K	120°	-20°C ~ +50°C	30000lm
LAMFL65NA2	MFL6NA2	220V - 240V AC	336W	5000K	45°	-20°C ~ +50°C	32400lm
LAMFL65FA1	MFL6FA1	100V - 120V AC	336W	5000K	105°	-20°C ~ +50°C	27000lm
LAMFL65NA1	MFL6NA1	100V - 120V AC	336W	5000K	45°	-20°C ~ +50°C	27000lm

Also available in other CCT and beam angle upon request.



MODULAR LED FLOODLIGHT



MFL 8 SERIES



Key Features

- 0-10V dimming compatible
- Rapid heat-dissensing design to prolong lamp life and increases lumen output
- Compact and lightweight design
- Long service life of >50,000 hours L70 @ 50°C (Ta)
- Safety, EMC and IEC compliance

Application

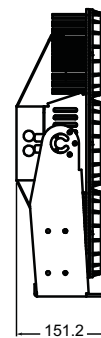
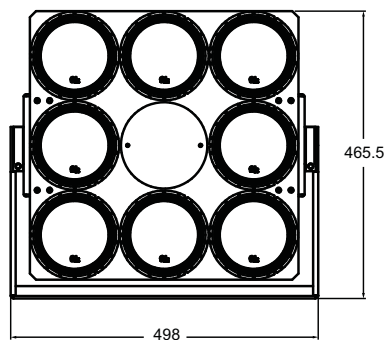
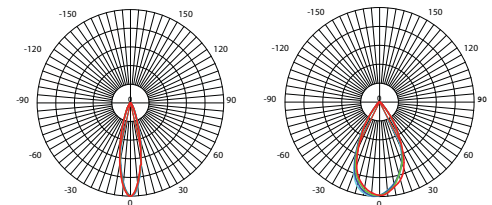
Decks, Marinas, Docks, Ports, High masts

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover and high-efficiency optical lens

Weight

21.0Kg



TECHNICAL SPECIFICATIONS

IP 65

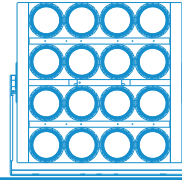
Ideal Replacement:



BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAMFL85FA3	MFL8FA3	110V - 277V AC	495W	5000K	60°	-20°C ~ +50°C	62000lm
LAMFL85NA3	MFL8NA3	110V - 277V AC	495W	5000K	38°	-20°C ~ +50°C	62000lm



MODULAR LED FLOODLIGHT



MFL 16 SERIES



Key Features

- 0-10V dimming compatible
- Rapid heat-dissensing design to prolong lamp life and increases lumen output
- Compact and lightweight design
- Long service life of >50,000 hours L70 @ 50°C (Ta)
- Safety, EMC and IEC compliance

Application

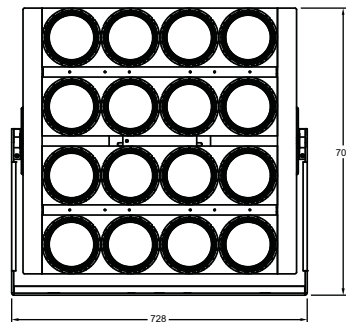
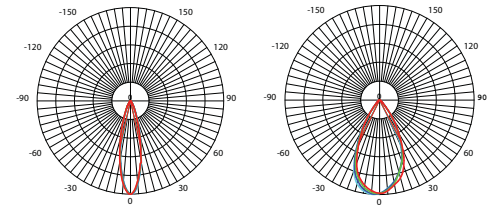
Decks, Marinas, Docks, Ports, High masts

Material

Marine grade aluminium alloy with powder coating, comes with 4mm tempered glass front cover and high-efficiency optical lens

Weight

41.6Kg



TECHNICAL SPECIFICATIONS IP 65

Ideal Replacement:



BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAMFL165FA3	MFL16FA3	110V - 277V AC	990W	5000K	60°	-20°C ~ +50°C	124000lm
LAMFL165NA3	MFL16NA3	220V - 277V AC	990W	5000K	38°	-20°C ~ +50°C	124000lm



PANEL LIGHT SERIES

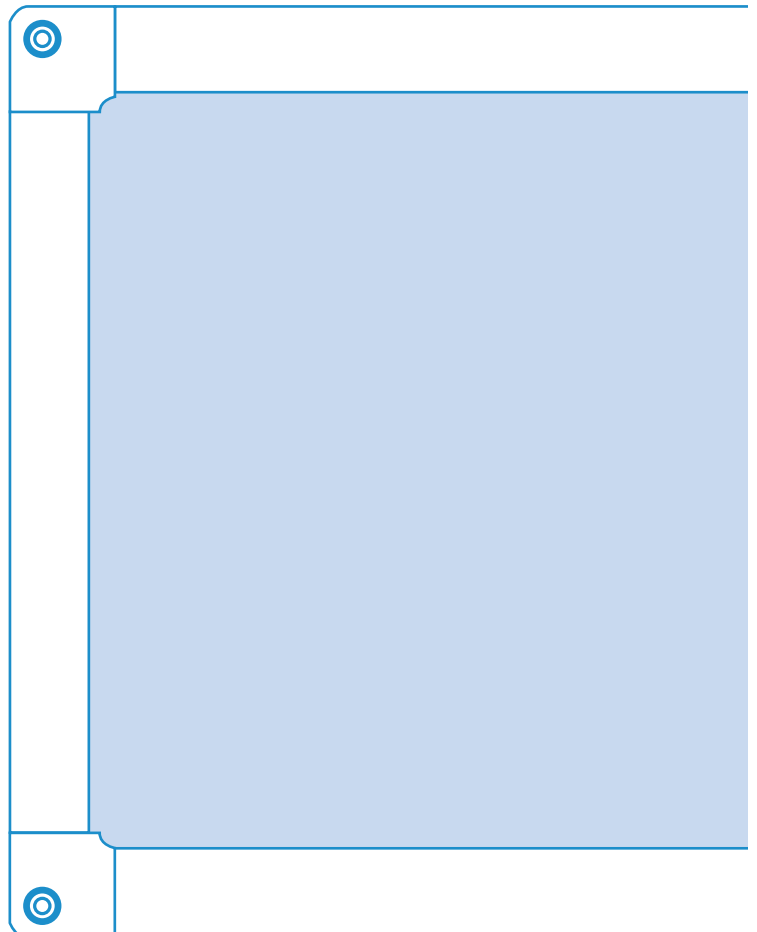
SHAPING THE TRADITION

The slim and sleek design of SOP Panel Light is the best solution for all indoor usage. The simple-to-install panel light is ideal to be an alternative to the T8/T5 ceiling fixture, its high-energy efficiency lowers maintenance cost. More importantly, it creates a beautiful environment and enhances the surrounding with a sense of natural light.

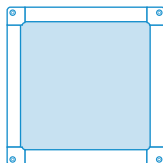
IP 20

IP 22

IP 44



LED PANEL LIGHT



PL 353353 SERIES



Key Features

- Easy installation with no external drivers needed
- Super slim design for surface mounted application
- High-efficiency constant current driver
- 70% more energy-efficient compared to 1X18W fluorescent lighting system
- Long service life of 50,000 hours L70 @ 40°C (Ta)
- Safety, EMC and IEC compliance

Application

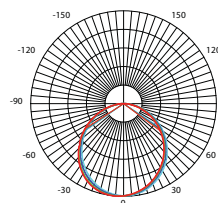
Cabins, Passageways, Galleys, Cafeterias

Material

Marine grade aluminium, comes with high-efficiency light guide

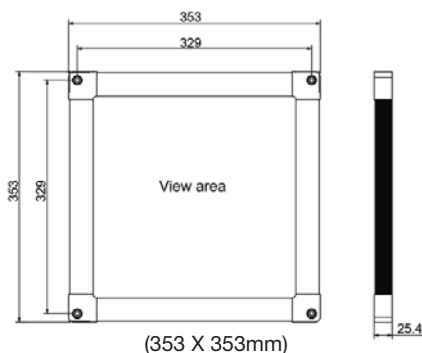
Weight

2.7Kg



Height	AVR E	Diameter
1.00m	97.35lx	280.75cm
2.00m	24.34lx	561.50cm
3.00m	10.82lx	842.26cm
4.00m	6.08lx	1123.01cm
5.00m	3.89lx	1403.76cm

Angle: 109.1°



TECHNICAL SPECIFICATIONS

IP 22

IP 44

Ideal Replacement:



BH Code	Type	IP Rating	Main Voltage	Power	CCT	Driving Current	CRI Index	Ambient Temp (Ta)	System Lumen
LAP353353A	P353353A	IP22	100V - 240V AC	10W	4000K	350mA	80	-20°C ~ +40°C	850lm
LAPW353353A	PW353353A	IP44							

BH Code	Type	IP Rating	Main Voltage	Power	CCT	Driving Current	CRI Index	Ambient Temp (Ta)	System Lumen
LAP353353AE	P353353AE	IP22	100V - 240V AC + 24V DC	10W (AC) 5W (DC)	4000K	350mA	80	-20°C ~ +40°C	850lm (AC) >120lm (DC)
LAPW353353AE	PW353353AE	IP44							

Also available in other CCT.



LED PANEL LIGHT



PL 625257 SERIES



Application

Cabins, Passageways, Galleys, Cafeterias

Material

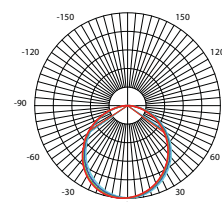
Marine grade aluminium, comes with high-efficiency light guide

Weight

3.3Kg

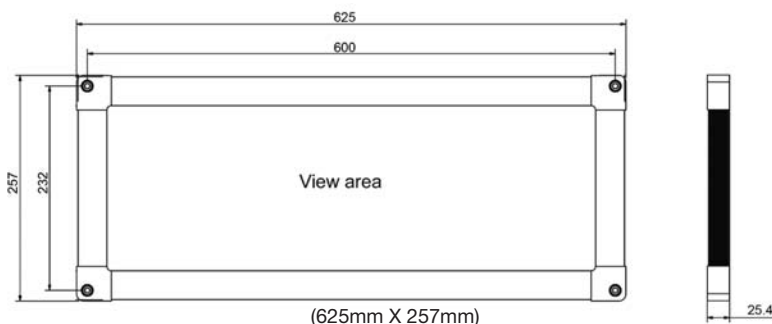
Key Features

- Easy installation with no external drivers needed
- Super slim design for surface mounted application
- High-efficiency constant current driver
- 70% more energy-efficient compared to 2X18W fluorescent lighting system
- Long service life of 50,000 hours L70 @ 40°C (Ta)
- Safety, EMC and IEC compliance



Height	AVR E	Diameter
1.00m	209.59lx	286.85cm
2.00m	52.40lx	573.70cm
3.00m	23.29lx	860.55cm
4.00m	13.10lx	1147.41cm
5.00m	8.38lx	1434.26cm

Angle: 110.2°



TECHNICAL SPECIFICATIONS

IP 22

IP 44

Ideal Replacement:



BH Code	Type	IP Rating	Main Voltage	Power	CCT	Driving Current	CRI Index	Ambient Temp (Ta)	System Lumen
LAP625257A	P625257A	IP22	100V - 240V AC	24W	4000K	800mA	80	-20°C ~ +40°C	1700lm
LAPW625257A	PW625257A	IP44							

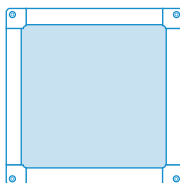
BH Code	Type	IP Rating	Main Voltage	Power	CCT	Driving Current	CRI Index	Ambient Temp (Ta)	System Lumen
LAP625257AE	P625257AE	IP22	100V - 240V AC + 24V DC	24W (AC) 5W (DC)	4000K	800mA	80	-20°C ~ +40°C	1700lm (AC) >120lm (DC)
LAPW625257AE	PW625257AE	IP44							

Also available in other CCT.



Due to our continuous development and product improvement policy, we reserve the rights to revise the specifications of all products without prior notice.

LED PANEL LIGHT



PL 625625 SERIES



Application

Cabins, Passageways, Galleys, Cafeterias

Material

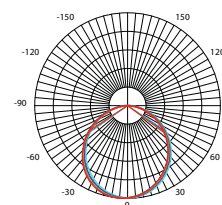
Marine grade aluminium, comes with high-efficiency light guide

Weight

7.0Kg

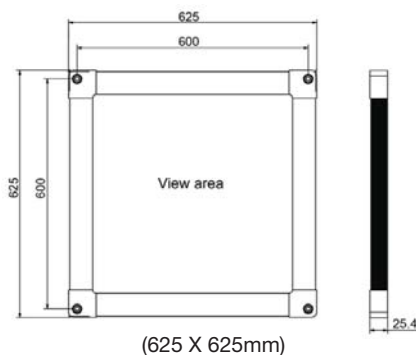
Key Features

- Easy installation with no external drivers needed
- Super slim design for surface mounted application
- High-efficiency constant current driver
- 70% more energy-efficient compared to 3X18W fluorescent lighting system
- Long service life of 50,000 hours L70 @ 40°C (Ta)
- Safety, EMC and IEC compliance



Height	AVR E	Diameter
1.00m	363.15lx	282.84cm
2.00m	90.79lx	565.67cm
3.00m	40.35lx	848.51cm
4.00m	22.70lx	1131.34cm
5.00m	14.53lx	1414.18cm

Angle: 109.5°

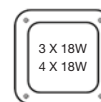


TECHNICAL SPECIFICATIONS

IP 22

IP 44

Ideal Replacement:



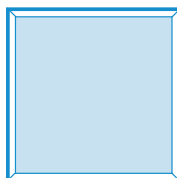
BH Code	Type	IP Rating	Main Voltage	Power	CCT	Driving Current	CRI Index	Ambient Temp (Ta)	System Lumen
LAP625625A	P625625A	IP22	100V - 240V AC	47W	4000K	800mA	80	-20°C ~ +40°C	2800lm
LAPW625625A	PW625625A	IP44							

BH Code	Type	IP Rating	Main Voltage	Power	CCT	Driving Current	CRI Index	Ambient Temp (Ta)	System Lumen
LAP625625AE	P625625AE	IP22	100V - 240V AC + 24V DC	47W (AC) 5W (DC)	4000K	800mA	80	-20°C ~ +40°C	2800lm (AC) >120lm (DC)
LAPW625625AE	PW625625AE	IP44							

Also available in other CCT.



LED PANEL LIGHT



P 46 SERIES



Application

Office, Cabins, Passageways, Galleys, Cafeterias

Material

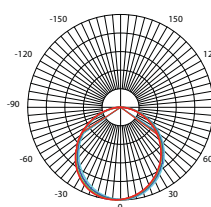
Aluminium housing, comes with high-efficiency light guide

Weight

3.1Kg (with driver)

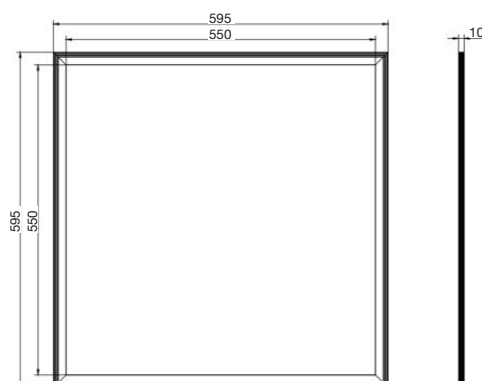
Key Features

- Easy installation, super slim design for recessed mount application
- High efficiency and with long service life of 50,000 hours @ 40°C (Ta)
- Safety, EMC and IEC compliance



Height	AVR E	Diameter
1.00m	408.10lx	292.09cm
2.00m	102.10lx	584.18cm
3.00m	45.10lx	876.27cm
4.00m	25.10lx	1168.36cm
5.00m	16.10lx	1460.45cm

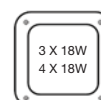
Angle: 111.2°



TECHNICAL SPECIFICATIONS

IP 20

Ideal Replacement:

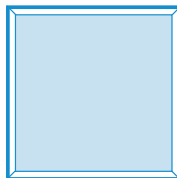


BH Code	Type	IP Rating	Main Voltage	Power	CCT	Input Current	CRI Index	Ambient Temp (Ta)	System Lumen
LAP465A	P46A	IP20	100V - 240V AC	46W	5000K	193mA	80	-20°C ~ +40°C	3800lm

Also available in other CCT.



LED PANEL LIGHT



DAMPA SERIES



Application

Office, Cabins, Passageways, Galleys, Cafeterias

Material

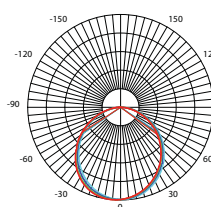
Marine grade aluminium alloy housing, come with PMMA light guide

Weight

3.1Kg (with driver)

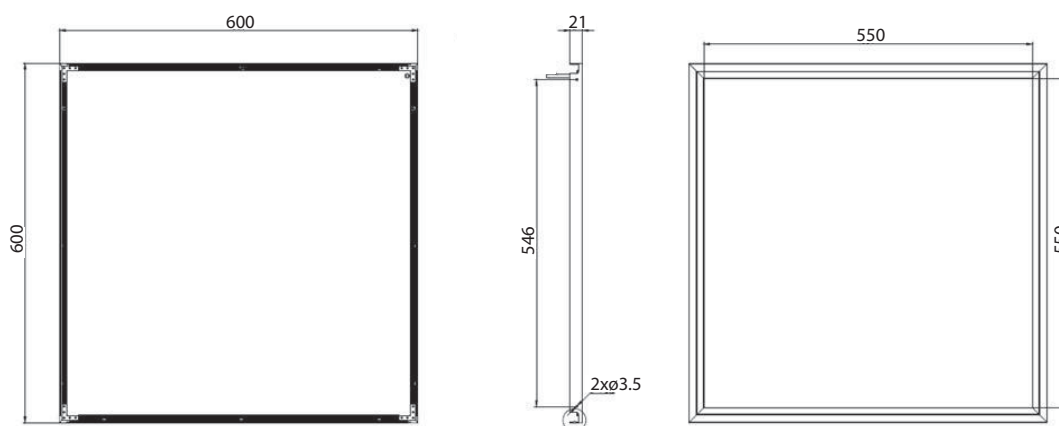
Key Features

- Easy installation, super slim design for recessed mount application
- High efficiency and with long service life of 50,000 hours @ 40°C (Ta)
- Safety, EMC and IEC compliance



Height	AVR E	Diameter
1.00m	408.10lx	292.09cm
2.00m	102.10lx	584.18cm
3.00m	45.10lx	876.27cm
4.00m	25.10lx	1168.36cm
5.00m	16.10lx	1460.45cm

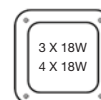
Angle: 111.2°



TECHNICAL SPECIFICATIONS

IP 20

Ideal Replacement:



BH Code	Type	IP Rating	Main Voltage	Power	CCT	CRI Index	Ambient Temp	System Lumen
LADP600600A	DP600600A	IP20	100V - 240V AC	46W	4000K	80	-20°C ~ +40°C	4600lm
LADPW600600A	DPW600600A	IP44	100V - 240V AC	46W	4000K	80	-20°C ~ +40°C	4600lm

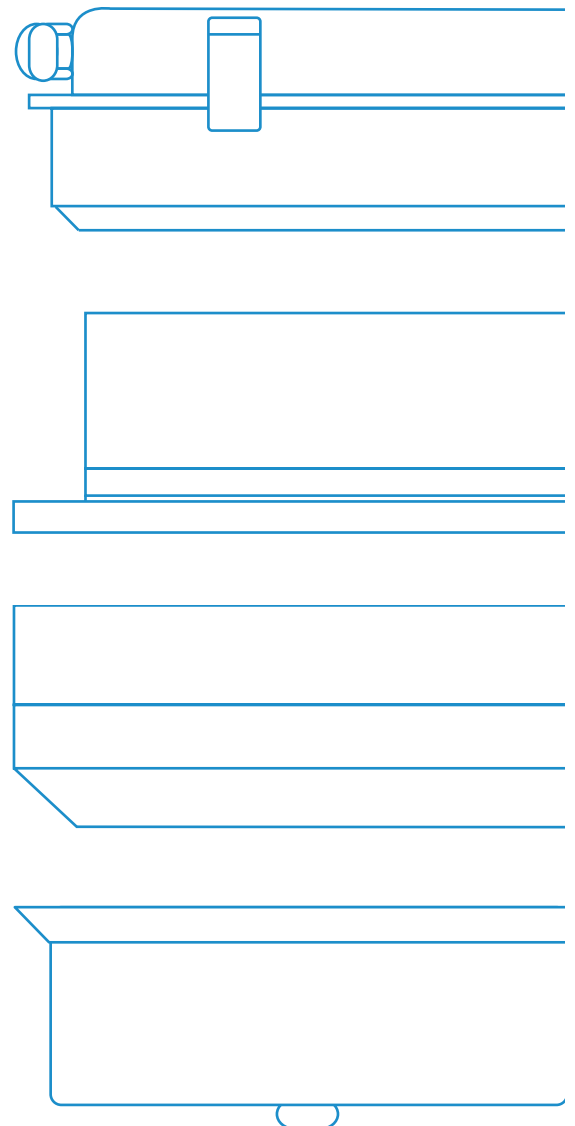
Also available in other CCT.



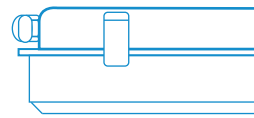
LED LUMINAIRE SERIES

BRAND NEW EXPERIENCE

SOP Technical Luminaire Series serves as the perfect lighting solution that is suitable for various application in the maritime environment. Both indoor and outdoor lighting solutions provide excellent service life with strong vibration resistance.



LED WATERTIGHT LUMINAIRE



WS SERIES



Key Features

- Triac dimming compatible
- Built-in with high thermal efficient linear module that allows lighting to operate at ambient temperature of up to 45°C
- Special designed clear polycarbonate diffuser to optimize the LED light transmission
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance
- Available with battery backup system and emergency lighting



Application

Decks, Engine rooms, Yards, Coldrooms

Mounting Method

Surface mounted

Material

Diffuser: Polycarbonate
Housing: SUS316 stainless steel or
Zinc coated steel, Powder coated white

Electrical

Flexible wiring, Heat resistant up to 105°C

Options

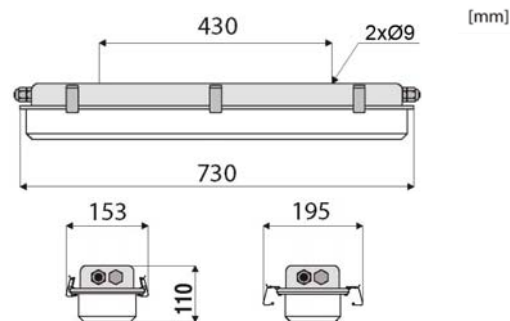
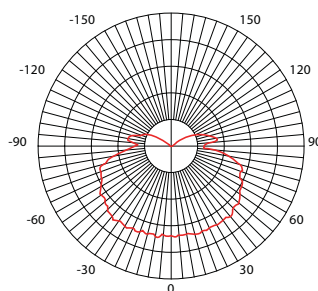
100V ~ 120V AC

Weight

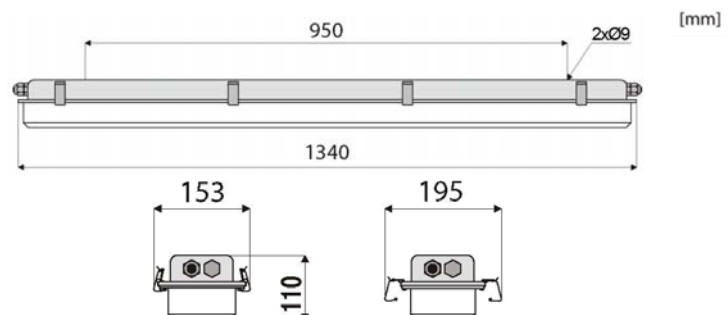
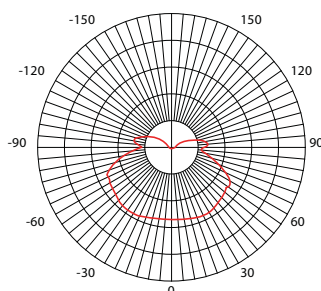
WS21: 3.3Kg WS22: 3.6Kg
WS41: 5.2Kg WS42: 5.8Kg



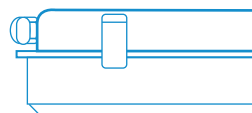
WS21/WS22



WS41/WS42



LED WATERTIGHT LUMINAIRE



WS SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 67

1 X 18W WS21 for 1X18W

Ideal Replacement: 2 X 18W WS22 for 2X18W

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen	Housing
IGLAWS215SA1	WS21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	SUS316 Stainless Steel
IGLAWS215SA1B	WS21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	SUS316 Stainless Steel
IGLAWS215SA1E	WS21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	SUS316 Stainless Steel
IGLAWS215ZA1	WS21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	Zinc Coated Steel
IGLAWS215ZA1B	WS21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	Zinc Coated Steel
IGLAWS215ZA1E	WS21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	Zinc Coated Steel
IGLAWS225SA1	WS22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS225SA1B	WS22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS225SA1E	WS22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS225ZA1	WS22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS225ZA1B	WS22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS225ZA1E	WS22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 67

1 X 36W WS41 for 1X36W

Ideal Replacement: 2 X 36W WS42 for 2X36W

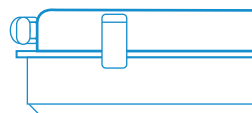
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen	Housing
IGLAWS415SA1	WS41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS415SA1B	WS41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS415SA1E	WS41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS415ZA1	WS41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS415ZA1B	WS41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS415ZA1E	WS41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS425SA1	WS42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	SUS316 Stainless Steel
IGLAWS425SA1B	WS42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	SUS316 Stainless Steel
IGLAWS425SA1E	WS42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	SUS316 Stainless Steel
IGLAWS425ZA1	WS42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	Zinc Coated Steel
IGLAWS425ZA1B	WS42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	Zinc Coated Steel
IGLAWS425ZA1E	WS42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	Zinc Coated Steel

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



LED WATERTIGHT LUMINAIRE



WS SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 67

1 X 18W WS21 for 1X18W

Ideal Replacement: 2 X 18W WS22 for 2X18W

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen	Housing
IGLAWS215SA2	WS21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	SUS316 Stainless Steel
IGLAWS215SA2B	WS21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	SUS316 Stainless Steel
IGLAWS215SA2E	WS21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	SUS316 Stainless Steel
IGLAWS215ZA2	WS21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	Zinc Coated Steel
IGLAWS215ZA2B	WS21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	Zinc Coated Steel
IGLAWS215ZA2E	WS21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	970lm	Zinc Coated Steel
IGLAWS225SA2	WS22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS225SA2B	WS22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS225SA2E	WS22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS225ZA2	WS22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS225ZA2B	WS22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS225ZA2E	WS22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 67

1 X 36W WS41 for 1X36W

Ideal Replacement: 2 X 36W WS42 for 2X36W

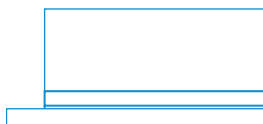
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen	Housing
IGLAWS415SA2	WS41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS415SA2B	WS41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS415SA2E	WS41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	SUS316 Stainless Steel
IGLAWS415ZA2	WS41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS415ZA2B	WS41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS415ZA2E	WS41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1940lm	Zinc Coated Steel
IGLAWS425SA2	WS42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	SUS316 Stainless Steel
IGLAWS425SA2B	WS42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	SUS316 Stainless Steel
IGLAWS425SA2E	WS42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	SUS316 Stainless Steel
IGLAWS425ZA2	WS42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	Zinc Coated Steel
IGLAWS425ZA2B	WS42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	Zinc Coated Steel
IGLAWS425ZA2E	WS42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm	Zinc Coated Steel

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



LED RECESSED LUMINAIRE



RC SERIES



Ice Crystal Diffuser



Key Features

- Triac dimming compatible
- Integrated with LED linear module(s) to provide high illumination performance
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance
- Available with battery backup system and emergency lighting



Application

Accommodation areas, Passageways, Cabins

Mounting Method

4 mounting brackets,
Hole cut out (2ft): 638 X 211 mm
Hole cut out (4ft): 1247 X 211 mm

Material

Diffuser: PMMA ice crystal
Housing: Zinc coated steel, Powder coated white

Electrical

Flexible wiring, Heat resistant up to 105°C

Protection Class

IP44 in conjunction with ceiling

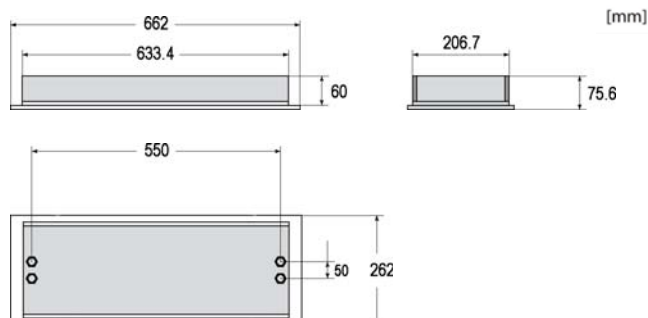
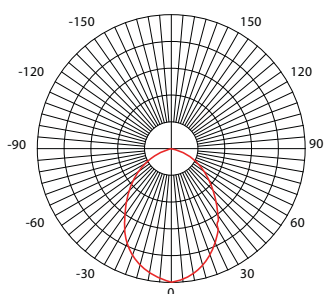
Options

100V ~ 120V AC

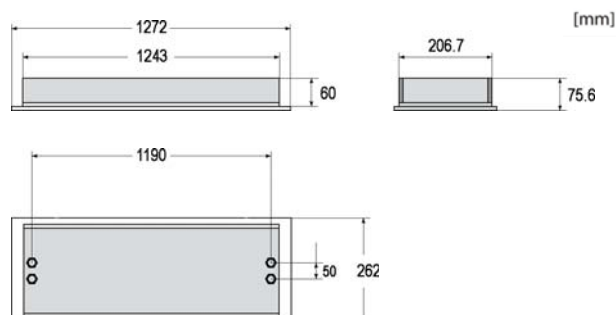
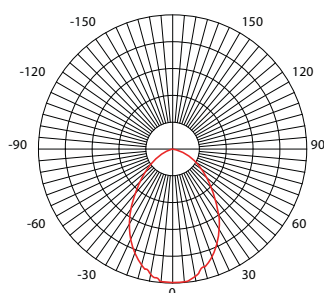
Weight

RC21: 3.7Kg RC22: 4.0Kg
RC41: 6.9Kg RC42: 7.5Kg

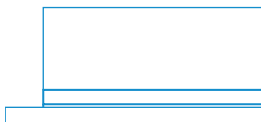
RC21/RC22



RC41/RC42



LED RECESSED LUMINAIRE



RC SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 44

1 X 18W RC21 for 1X18W

Ideal Replacement: 2 X 18W RC22 for 2X18W

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLARC215A1	RC21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLARC215A1B	RC21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLARC215A1E	RC21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLARC225A1	RC22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLARC225A1B	RC22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLARC225A1E	RC22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm

Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 44

1 X 36W RC41 for 1X36W

Ideal Replacement: 2 X 36W RC42 for 2X36W

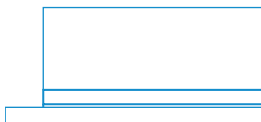
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLARC415A1	RC41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLARC415A1B	RC41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLARC415A1E	RC41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLARC425A1	RC42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLARC425A1B	RC42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLARC425A1E	RC42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3800lm

Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



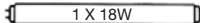
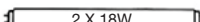
LED RECESSED LUMINAIRE



RC SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 44

Ideal Replacement:  RC21 for 1X18W
 RC22 for 2X18W


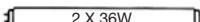
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLARC215A2	RC21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLARC215A2B	RC21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLARC215A2E	RC21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLARC225A2	RC22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLARC225A2B	RC22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLARC225A2E	RC22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm

Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 44

Ideal Replacement:  RC41 for 1X36W
 RC42 for 2X36W

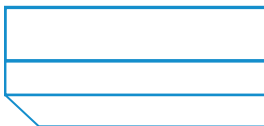
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLARC415A2	RC41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLARC415A2B	RC41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLARC415A2E	RC41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLARC425A2	RC42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLARC425A2B	RC42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLARC425A2E	RC42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3800lm

Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



LED SURFACE LUMINAIRE



SC SERIES



Key Features

- Triac dimming compatible
- Special designed polycarbonate diffuser to optimize the LED lighting performance
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance
- Available with battery backup system and emergency lighting



Application

Passageways, Cabins, Lounges, Dining rooms, Accommodation areas

Mounting Method

4 mounting holes $\varnothing 5.5\text{mm}$

Material

Diffuser: Polycarbonate

Housing: Zinc coated steel, Powder coated white

Electrical

Flexible wiring, Heat resistant up to 105°C

Options

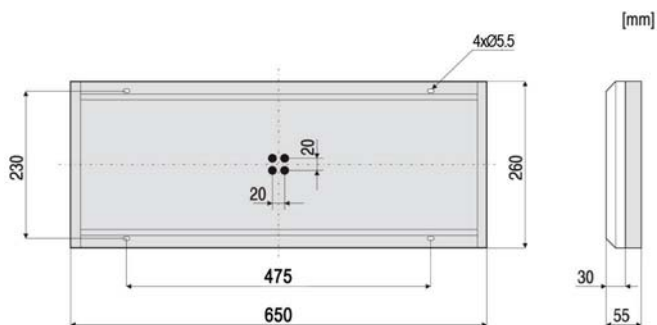
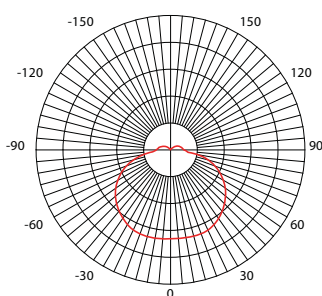
100V ~ 120V AC

Weight

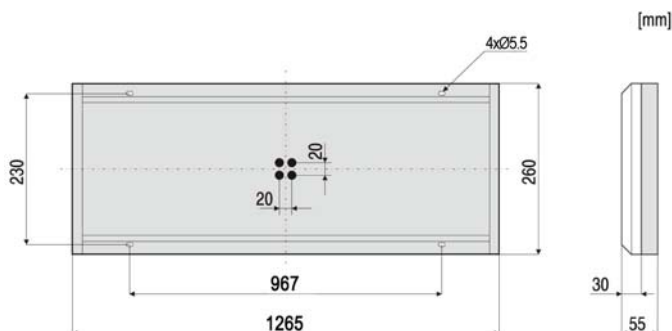
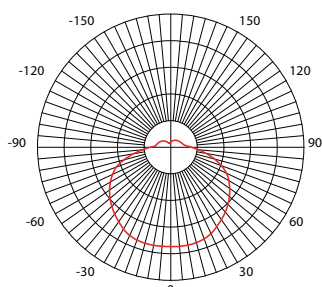
SC21: 2.5Kg SC22: 2.8Kg

SC41: 5.0Kg SC42: 5.6Kg

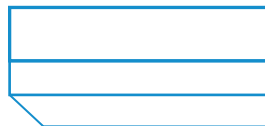
SC21/SC22



SC41/SC42



LED SURFACE LUMINAIRE



SC SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 30

SC21 for 1X18W

Ideal Replacement: SC22 for 2X18W

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLASC215A1	SC21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLASC215A1B	SC21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLASC215A1E	SC21	100V - 120V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLASC225A1	SC22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLASC225A1B	SC22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLASC225A1E	SC22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm

Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 30

SC41 for 1X36W

Ideal Replacement: SC42 for 2X36W

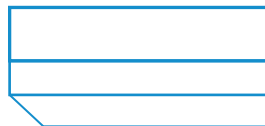
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLASC415A1	SC41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLASC415A1B	SC41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLASC415A1E	SC41	100V - 120V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLASC425A1	SC42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLASC425A1B	SC42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLASC425A1E	SC42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3800lm

Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



LED SURFACE LUMINAIRE




SC SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 30

 SC21 for 1X18W

Ideal Replacement:  SC22 for 2X18W

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLASC215A2	SC21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLASC215A2B	SC21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLASC215A2E	SC21	220V - 240V AC	1x12.5W	5000K	-30°C ~ +45°C	950lm
IGLASC225A2	SC22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLASC225A2B	SC22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm
IGLASC225A2E	SC22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1900lm


Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 30

 SC41 for 1X36W

Ideal Replacement:  SC42 for 2X36W

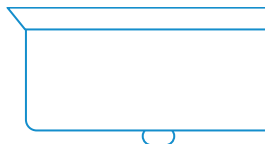
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLASC415A2	SC41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLASC415A2B	SC41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLASC415A2E	SC41	220V - 240V AC	1x24W	5000K	-30°C ~ +45°C	1900lm
IGLASC425A2	SC42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLASC425A2B	SC42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3800lm
IGLASC425A2E	SC42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3800lm

Also available in other CCT.

* Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



LED KITCHEN LUMINAIRE



GL SERIES



Key Features

- Triac dimming compatible
- Built-in with high thermal efficient linear module that allows lighting to operate at ambient temperature of up to 45°C
- Special designed clear polycarbonate diffuser to optimize the LED light transmission
- Long service life of 50,000 hours L70 @ 45°C (Ta)
- Safety, EMC and IEC compliance
- Available with battery backup system and emergency lighting



Application

Galley, Pantries, Cafeterias, Provision rooms, Kitchens

Mounting Method

6 mounting holes $\varnothing 5\text{mm}$ (GL22)
8 mounting holes $\varnothing 5\text{mm}$ (GL42)

Material

Diffuser: Polycarbonate
Base plate: Stainless steel
Gasket: Silicone rubber

Cable Entry

2 plastic cable glands M20
Cable max $\varnothing 13\text{ mm}$

Electrical

Flexible wiring, Heat resistance up to 105°C

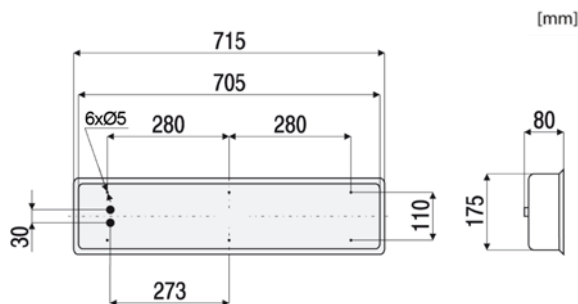
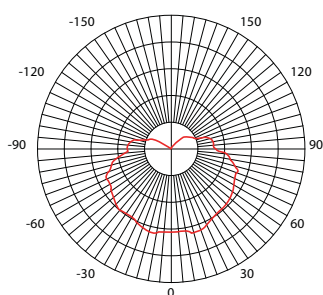
Options

100V ~ 120V AC

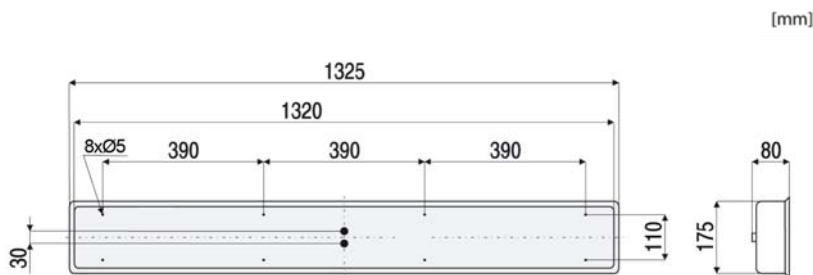
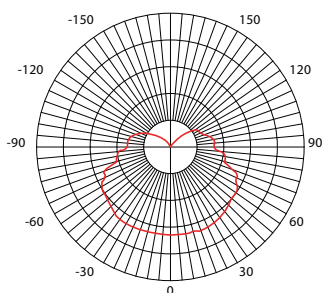
Weight

GL22: 4.2Kg GL42: 6.3Kg

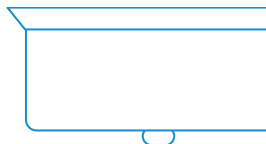
GL22



GL42



LED KITCHEN LUMINAIRE



GL SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 55

Ideal Replacement: 

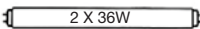
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLAGL225A1	GL22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm
IGLAGL225A1B	GL22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm
IGLAGL225A1E	GL22	100V - 120V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 55

Ideal Replacement: 

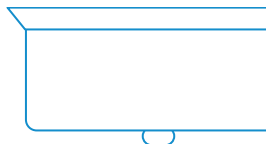
BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLAGL425A1	GL42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm
IGLAGL425A1B	GL42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm
IGLAGL425A1E	GL42	100V - 120V AC	2x24W	5000K	-30°C ~ +45°C	3880lm

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



LED KITCHEN LUMINAIRE



GL SERIES

- B Denotes : With battery backup
- E Denotes : With DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 55

Ideal Replacement: 

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLAGL225A2	GL22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm
IGLAGL225A2B	GL22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm
IGLAGL225A2E	GL22	220V - 240V AC	2x12.5W	5000K	-30°C ~ +45°C	1940lm

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



TECHNICAL SPECIFICATIONS IP 55

Ideal Replacement: 

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLAGL425A2	GL42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm
IGLAGL425A2B	GL42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm
IGLAGL425A2E	GL42	220V - 240V AC	2x24W	5000K	-30°C ~ +45°C	3880lm

Also available in other CCT.

*Ambient Temperature not applicable for Battery Backup System and Emergency Lighting.



LED AIRTIGHT LUMINAIRE



AT SERIES



Key Features

- Triac dimming compatible
- Special designed polycarbonate diffuser to optimize the LED light transmission
- Slim profile design that is easily mounted to provide illumination performance while using significantly less energy
- Long service life of 50,000 hours L70 @ 40°C (Ta)
- Safety, EMC and IEC compliance



Application

Open decks, Deck rails

Material

Polycarbonate diffuser and end cap

Electrical

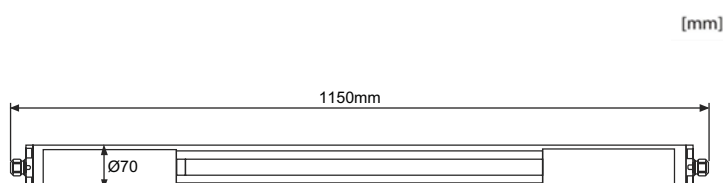
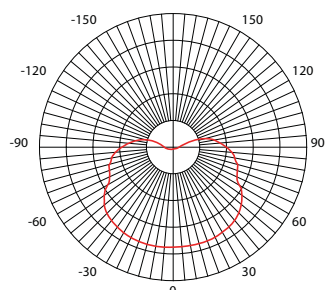
Flexible wiring, Heat resistance up to 105°C

Options

100V ~ 120V AC

Weight

3.3Kg



TECHNICAL SPECIFICATIONS IP 68

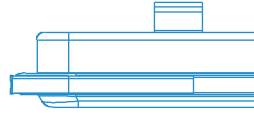
Ideal Replacement: 1 X 18W

BH Code	Type	Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLATA4110A1	ATA-411	100V - 120V AC	1x12.5W	5000K	-20°C ~ +40°C	970lm
IGLATA4110	ATA-411	220V - 240V AC	1x12.5W	5000K	-20°C ~ +40°C	970lm

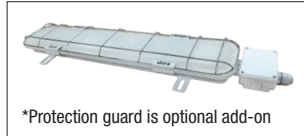
Also available in other CCT.



LED WATERTIGHT LINEAR LUMINAIRE



LMWS SERIES



*Protection guard is optional add-on

Key Features

- Super thin light weight design
- Superior thermal design to allow the luminaire to operate at high ambient temperature up to 60°C, suitable for usage even in hot engine room
- Designed with reliable AC driver on board to enhance the service life
- Designed with junction box for fast termination
- Polycarbonate diffuser prevents glare for better eye comfort
- Supports dual voltage AC100V-120V / 220V-240V. Option for DC20V-32V available
- Long service life of 50,000 hours @ 50°C (Ta)
- Marine class compliance



Application

Decks, Engine rooms, Marinas, Docks, Ports, Warehouses

Mounting Method

Surface mounted

Material

Diffuser: Polycarbonate

Housing: Zinc coated steel or SUS316 stainless steel, Powder coated white

Optional protection guard: SUS316 stainless steel

Electrical

Flexible wiring, Heat resistant up to 105°C

Options

20V-32V DC

Weight

LMWS20 (ZCS): 2.0Kg LMWS20 (SUS316): 2.1Kg

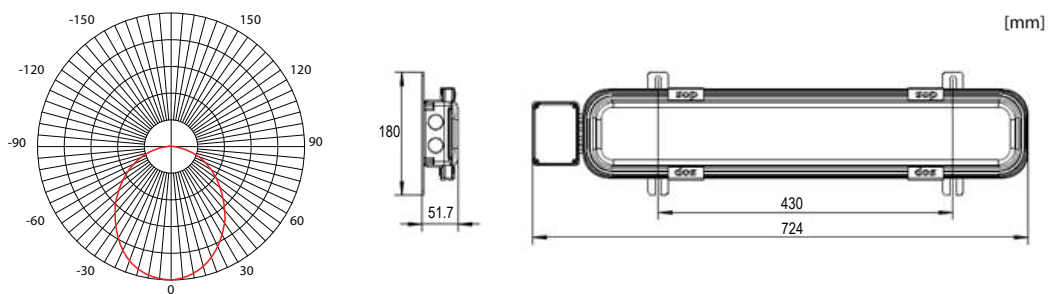
LMWS40 (ZCS): 3.7Kg LMWS40 (SUS316): 3.8Kg

With 2nd Junction Box: Add 0.2Kg

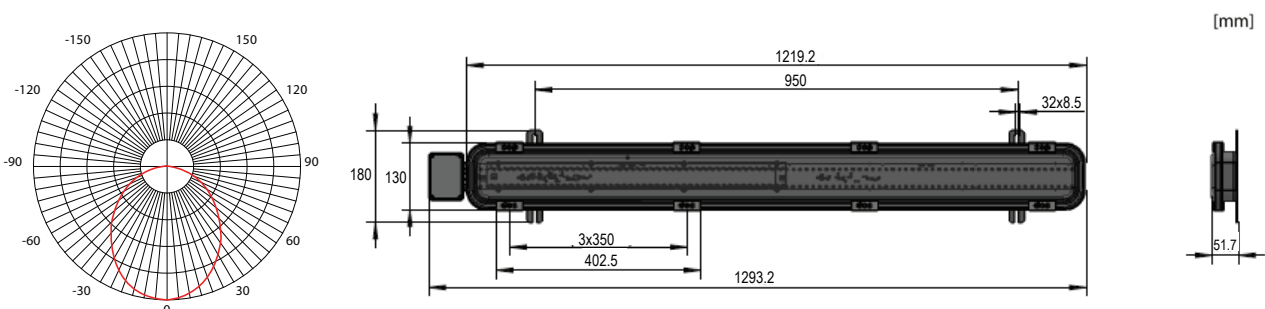
With LMWS20 Protection Guard: Add 0.2Kg

With LMWS40 Protection Guard: Add 0.4Kg

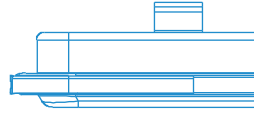
LMWS20



LMWS40



LED WATERTIGHT LINEAR LUMINAIRE



LMWS SERIES

- 10 Denotes : Zinc coated steel housing w/1 junction box
- 1B Denotes : Zinc coated steel housing w/1 junction box & 3hr NiMH battery backup
- 1E Denotes : Zinc coated steel housing w/1 junction box & DC24V emergency LED
- 20 Denotes : Zinc coated steel housing w/2 junction box
- 2B Denotes : Zinc coated steel housing w/2 junction box & 3hr NiMH battery backup
- 2E Denotes : Zinc coated steel housing w/2 junction box & DC24V emergency LED
- 1S0 Denotes : Stainless steel housing w/1 junction box
- 1SB Denotes : Stainless steel housing w/1 junction box & 3hr NiMH battery backup
- 1SE Denotes : Stainless steel housing w/1 junction box & DC24V emergency LED
- 2S0 Denotes : Stainless steel housing w/2 junction box
- 2SB Denotes : Stainless steel housing w/2 junction box & 3hr NiMH battery backup
- 2SE Denotes : Stainless steel housing w/2 junction box & DC24V emergency LED

TECHNICAL SPECIFICATIONS

IP 67

Ideal Replacement: 2 X 18W

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLALMWS2010	LMWS2010	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS201B	LMWS201B	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS201E	LMWS201E	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS2020	LMWS2020	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS202B	LMWS202B	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS202E	LMWS202E	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS201S0	LMWS201S0	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS201SB	LMWS201SB	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS201SE	LMWS201SE	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS202S0	LMWS202S0	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS202SB	LMWS202SB	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS202SE	LMWS202SE	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS2D10	LMWS2D10	20V - 32V DC	22W	5000K	-30°C ~ +60°C	2200lm
IGLALMWS2D1E	LMWS2D1E	20V - 32V DC	22W	5000K	-30°C ~ +60°C	2200lm

Also available in other CCT.

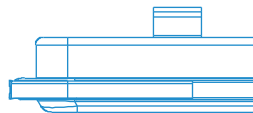
*Ambient Temperature not applicable for the 3Hr NiMH Battery Backup System and Emergency Lighting.

**Optional 93×68×39.5mm 3Hr NiMH Battery Backup module or Emergency Lighting module is installed on the junction box to IP67 rating.

***Add a "G" at the end of BH code to order luminaire with the optional SUS316 stainless steel protection guard. Eg. IGLALMWS2010G.



LED WATERTIGHT LINEAR LUMINAIRE



LMWS SERIES

- 10 Denotes : Zinc coated steel housing w/1 junction box
- 1B Denotes : Zinc coated steel housing w/1 junction box & 3hr NiMH battery backup
- 1E Denotes : Zinc coated steel housing w/1 junction box & DC24V emergency LED
- 20 Denotes : Zinc coated steel housing w/2 junction box
- 2B Denotes : Zinc coated steel housing w/2 junction box & 3hr NiMH battery backup
- 2E Denotes : Zinc coated steel housing w/2 junction box & DC24V emergency LED
- 1S0 Denotes : Stainless steel housing w/1 junction box
- 1SB Denotes : Stainless steel housing w/1 junction box & 3hr NiMH battery backup
- 1SE Denotes : Stainless steel housing w/1 junction box & DC24V emergency LED
- 2S0 Denotes : Stainless steel housing w/2 junction box
- 2SB Denotes : Stainless steel housing w/2 junction box & 3hr NiMH battery backup
- 2SE Denotes : Stainless steel housing w/2 junction box & DC24V emergency LED

TECHNICAL SPECIFICATIONS

IP 67

Ideal Replacement: 2 X 36W

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLALMWS4010	LMWS4010	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS401B	LMWS401B	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS401E	LMWS401E	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS4020	LMWS4020	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS402B	LMWS402B	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS402E	LMWS402E	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS401S0	LMWS401S0	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS401SB	LMWS401SB	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS401SE	LMWS401SE	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS402S0	LMWS402S0	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS402SB	LMWS402SB	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS402SE	LMWS402SE	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm

Also available in other CCT.

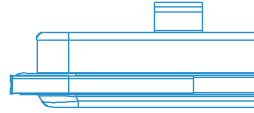
*Ambient Temperature not applicable for the 3Hr NiMH Battery Backup System and Emergency Lighting.

**Optional 93×68×39.5mm 3Hr NiMH Battery Backup module or Emergency Lighting module is installed on the junction box to IP67 rating.

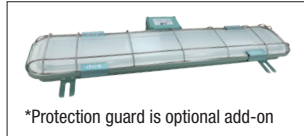
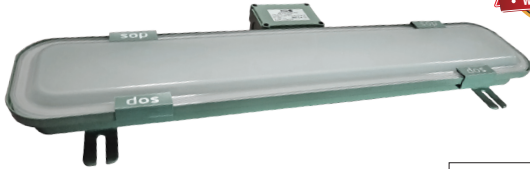
***Add a "G" at the end of BH code to order luminaire with the optional SUS316 stainless steel protection guard. Eg. IGLALMWS4010G.



LED WATERTIGHT LINEAR LUMINAIRE



LMWS SERIES



*Protection guard is optional add-on

Key Features

- Super thin light weight design
- Superior thermal design to allow the luminaire to operate at high ambient temperature up to 60°C, suitable for usage even in hot engine room
- Designed with reliable AC driver on board to enhance the service life
- Designed with junction box for fast termination
- Polycarbonate diffuser prevents glare for better eye comfort
- Supports dual voltage AC100V-120V / 220V-240V. Option for DC20V-32V available
- Long service life of 50,000 hours @ 50°C (Ta)
- Marine class compliance



Application

Decks, Engine rooms, Marinas, Docks, Ports, Warehouses

Mounting Method

Surface mounted

Material

Diffuser: Polycarbonate

Housing: Zinc coated steel or SUS316 stainless steel, Powder coated white

Optional protection guard: SUS316 stainless steel

Electrical

Flexible wiring, Heat resistant up to 105°C

Options

20V-32V DC

Weight

LMWS20 (ZCS): 2.0Kg LMWS20 (SUS316): 2.1Kg

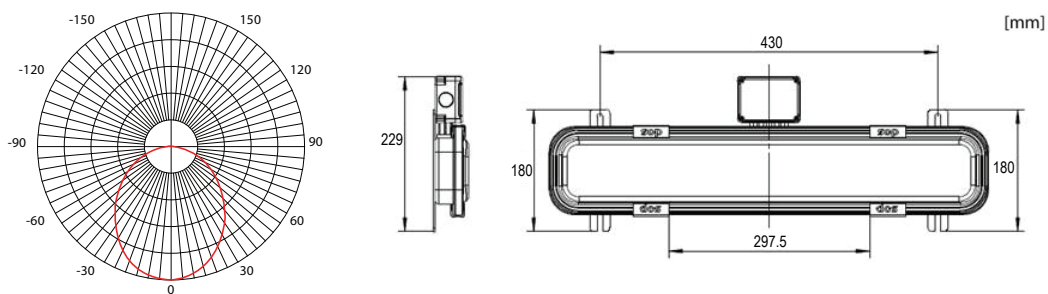
LMWS40 (ZCS): 3.7Kg LMWS40 (SUS316): 3.8Kg

With 2nd Junction Box: Add 0.2Kg

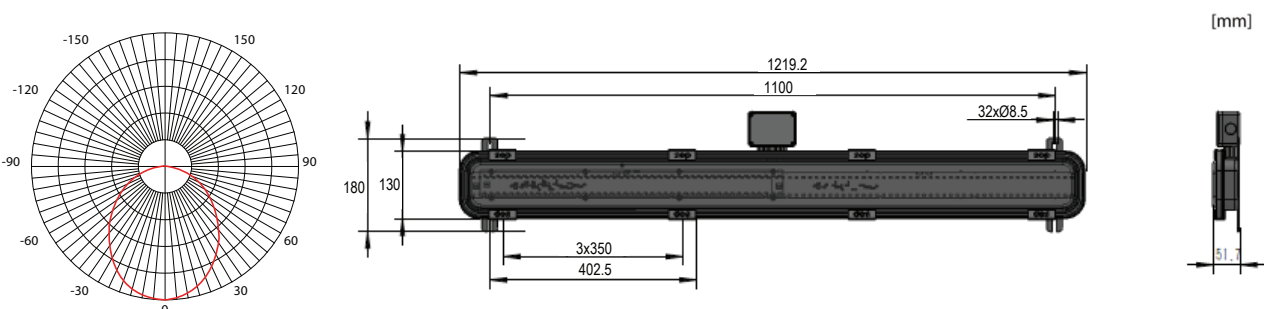
With LMWS20 Protection Guard: Add 0.2Kg

With LMWS40 Protection Guard: Add 0.4Kg

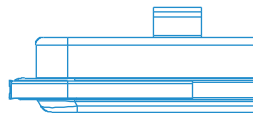
LMWS20



LMWS40



LED WATERTIGHT LINEAR LUMINAIRE



LMWS SERIES

- 50 Denotes : Zinc coated steel housing
- 5B Denotes : Zinc coated steel housing w/3hr NiMH battery backup
- 5E Denotes : Zinc coated steel housing w/DC24V emergency LED
- 5S0 Denotes : Stainless steel housing
- 5SB Denotes : Stainless steel housing w/3hr NiMH battery backup
- 5SE Denotes : Stainless steel housing w/DC24V emergency LED

TECHNICAL SPECIFICATIONS IP 67

Ideal Replacement:

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLALMWS2050	LMWS2050	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS205B	LMWS205B	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS205E	LMWS205E	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS205S0	LMWS205S0	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS205SB	LMWS205SB	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS205SE	LMWS205SE	100V - 120V/220V - 240V AC	20W	5000K	-30°C ~ +60°C	2000lm
IGLALMWS2D50	LMWS2D50	20V - 32V DC	22W	5000K	-30°C ~ +60°C	2200lm
IGLALMWS2D5E	LMWS2D5E	20V - 32V DC	22W	5000K	-30°C ~ +60°C	2200lm

Also available in other CCT.

*Ambient Temperature not applicable for the 3Hr NiMH Battery Backup System and Emergency Lighting.

**Optional 93×68×39.5mm 3Hr NiMH Battery Backup module or Emergency Lighting module is installed on the junction box to IP67 rating.

***Add a "G" at the end of BH code to order luminaire with the optional SUS316 stainless steel protection guard. Eg. IGLALMWS2050G.



TECHNICAL SPECIFICATIONS IP 67

Ideal Replacement:

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
IGLALMWS4050	LMWS4050	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS405B	LMWS405B	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS405E	LMWS405E	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS405S0	LMWS405S0	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS405SB	LMWS405SB	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm
IGLALMWS405SE	LMWS405SE	100V - 120V/220V - 240V AC	40W	5000K	-30°C ~ +60°C	4000lm

Also available in other CCT.

*Ambient Temperature not applicable for the 3Hr NiMH Battery Backup System and Emergency Lighting.

**Optional 93×68×39.5mm 3Hr NiMH Battery Backup module or Emergency Lighting module is installed on the junction box to IP67 rating.

***Add a "G" at the end of BH code to order luminaire with the optional SUS316 stainless steel protection guard. Eg. IGLALMWS4050G.

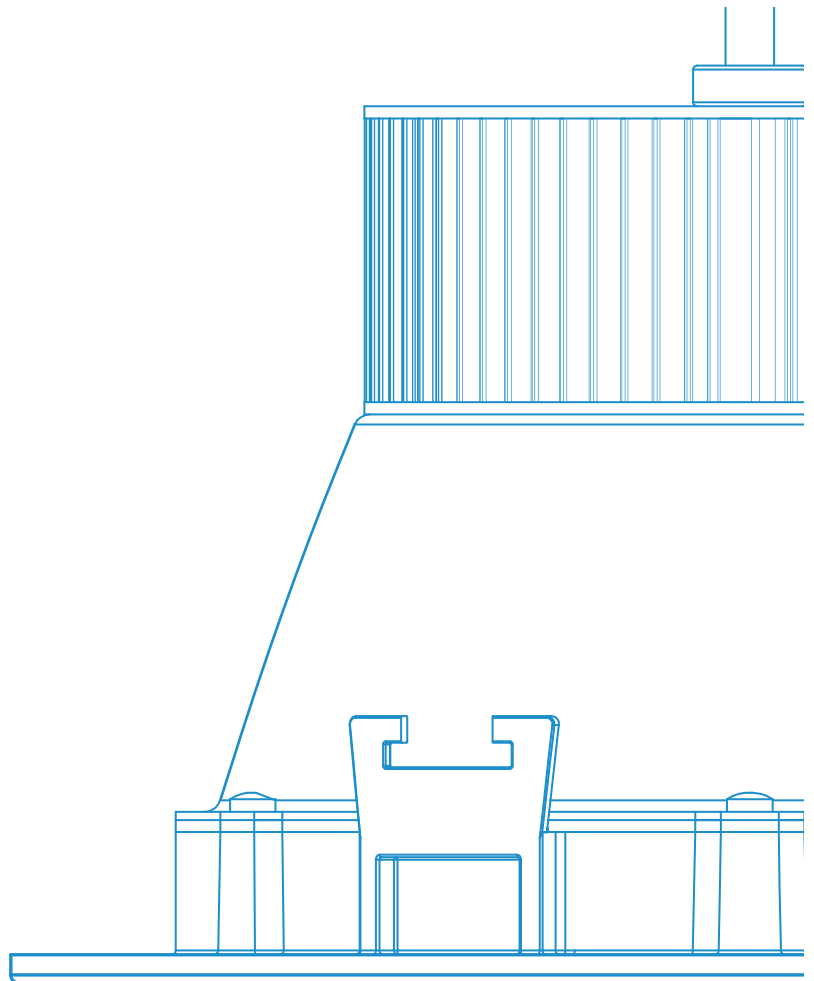


DOWNLIGHT SERIES

REDEFINING STANDARDS

SOP LED Downlight Series takes conventional lightings to a whole new dimension. The designing concept revolves around energy-efficiency and durability with true colour quality. The robust construction and stylish finishing makes it suitable for a wide range of applications.

IP 44



LED SWING DOWNLIGHT



DL SERIES



Key Features

- Triac dimming compatible (AC voltage model only)
- Built-in with integrated driver for ease of installation
- Swingable to adjust light angle
- Vibration-resistant
- Energy savings of up to 86% compared to 50W halogen
- Superior heat sink designed to enhance the service life
- Long service life of 50,000 hours L70 @ 40°C (Ta)
- Safety, EMC and IEC compliance

Application

Cabins, Passageways, Galleys, Meeting rooms

Material

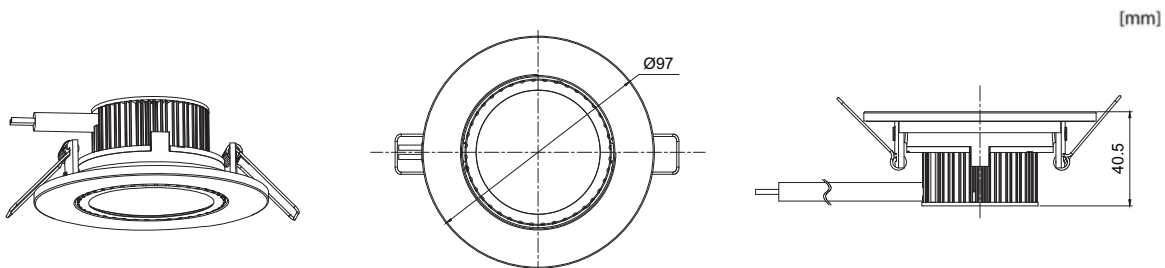
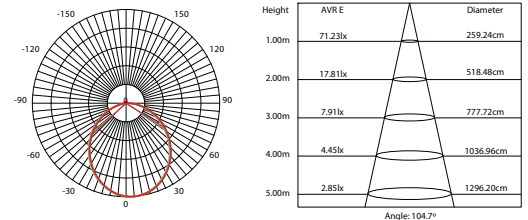
Marine grade aluminium alloy with powder coating, comes with polycarbonate diffuser

Protection Class

IP44 in conjunction with ceiling

Weight

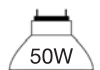
0.2Kg



TECHNICAL SPECIFICATIONS



Ideal Replacement:

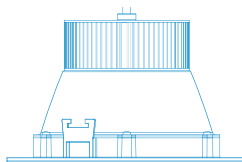


BH Code	Type	Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LADL74A2S	DL7A2S	220V - 240V AC	7W	4000K	105°	-20°C ~ +40°C	566lm
LADL74DS	DL7DS	24V DC	7W	4000K	105°	-20°C ~ +40°C	560lm

Also available in other CCT.



LED DOWNLIGHT



DL SERIES



Key Features

- Triac dimming compatible (AC voltage models only)
- Designed with reliable AC driver on board to enhance the service life
- Vibration-resistant
- Energy savings of up to 60% compared to compact fluorescent system
- Long service life of 50,000 hours L70 @ 40°C (Ta)
- Safety, EMC and IEC compliance

Application

Cabins, Passageways, Galleys, Meeting rooms

Material

Marine grade aluminium alloy with powder coating, comes with polycarbonate diffuser

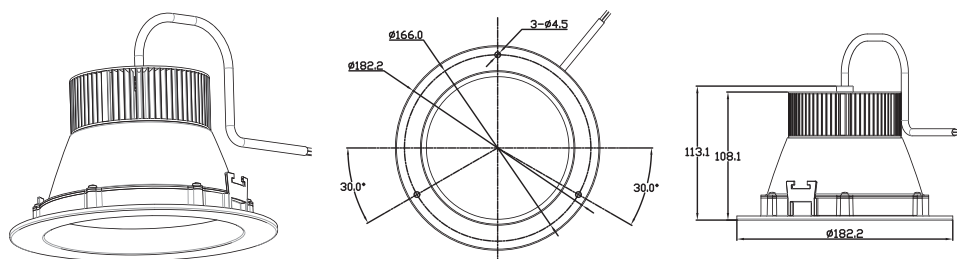
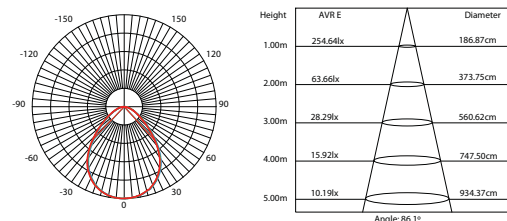
Protection Class

IP44 in conjunction with ceiling

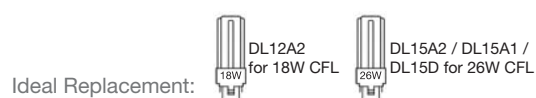
Weight

DL12A2: 1.2Kg

DL15A2 / DL15A1 / DL15D: 1.3Kg



TECHNICAL SPECIFICATIONS



BH Code	Type	Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LADL124A2	DL12A2	220V - 240V AC	12W	4000K	85°	-20°C ~ +40°C	820lm
LADL154A2	DL15A2	220V - 240V AC	15W	4000K	85°	-20°C ~ +40°C	1050lm
LADL154A1	DL15A1	100V - 120V AC	15W	4000K	85°	-20°C ~ +40°C	1050lm
LADL154D	DL15D	24V DC	15W	4000K	85°	-20°C ~ +40°C	1050lm

Also available in other CCT.



LED MINI SURFACE DOWNLIGHT



SL SERIES



Key Features

- Light, compact and ultra-thin
- Built-in integrated driver for ease of installation
- More than 90% energy savings compared with 35W halogen
- Vibration-resistant
- Dimmable LED
- Long service life of 35,000 hours
- Safety compliance

Application

Cabins, Lounges, Accommodation areas, Restrooms

Material

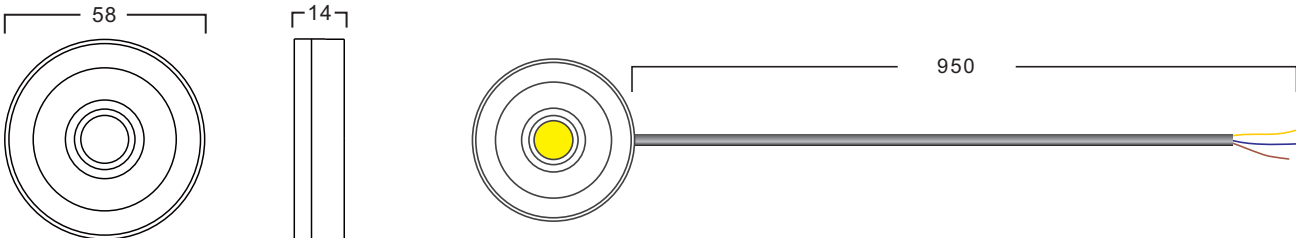
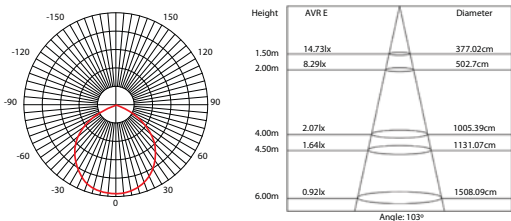
Corrosion-resistant aluminium housing with toughened glass diffuser

Protection Class

IP44

Weight

0.15Kg



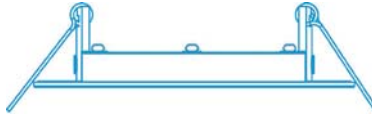
TECHNICAL SPECIFICATIONS IP 44

BH Code	Type	Housing Colour	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LASL33BA2	SL3A2	Black	220V - 240V AC	3W	3000K	90°	-20°C ~ +40°C	295lm
LASL33WA2	SL3A2	White	220V - 240V AC	3W	3000K	90°	-20°C ~ +40°C	295lm

Also available in other CCT.
100V-120V AC model option available.



LED MINI DOWNLIGHT



DC SERIES



Key Features

- Light, compact and ultra-thin
- Built-in integrated driver for ease of installation
- 85% energy savings compared with 20W halogen
- Also suitable as a DC24V emergency LED
- Vibration-resistant
- TRIAC and PWM dimming compatible
- Safety compliance

Application

Cabins, Lounges, Accommodation areas

Material

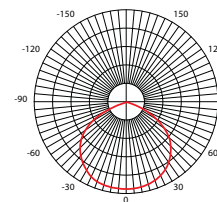
Corrosion-resistant aluminium housing with PMMA diffuser

Protection Class

IP20

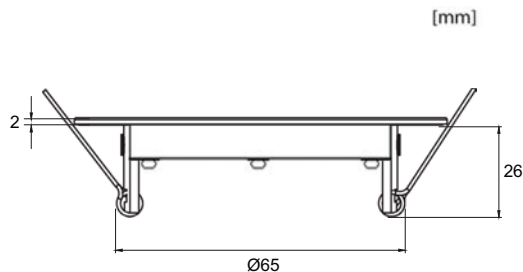
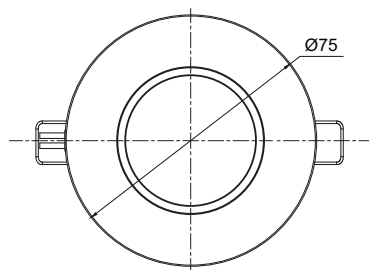
Weight

0.1Kg



Height	AVR E	Diameter
1.00m	14.05lx	361.52cm
2.00m	3.51lx	723.05cm
3.00m	1.56lx	1084.57cm
4.00m	0.88lx	1446.09cm
5.00m	0.56lx	1807.62cm

Angle: 122.1°



TECHNICAL SPECIFICATIONS



BH Code	Type	Housing Colour	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LADC34BD	DC3BD	Black	24V DC	3W	4000K	120°	-20°C ~ +40°C	210lm
LADC34WD	DC3WD	White	24V DC	3W	4000K	120°	-20°C ~ +40°C	210lm

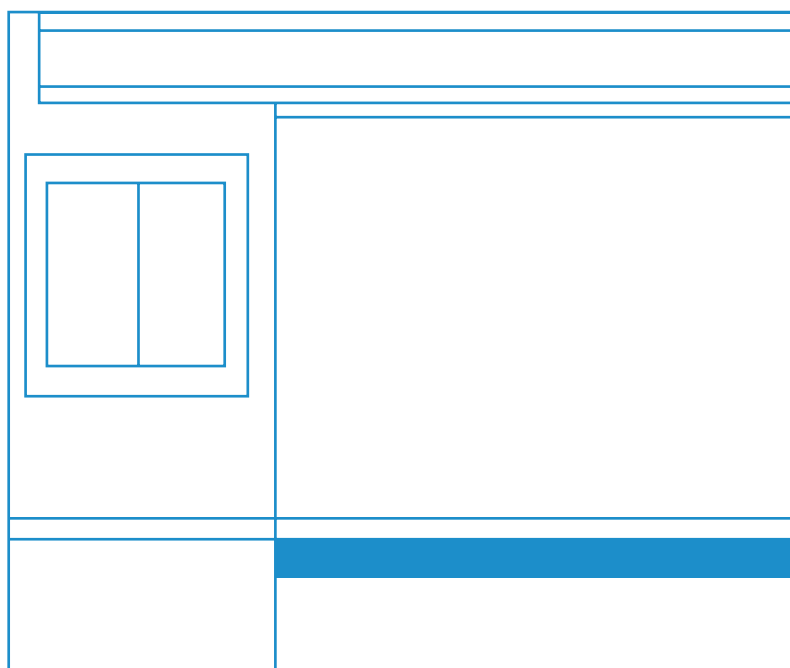
Also available in other CCT.



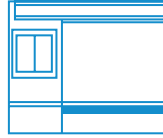
LED DECORATIVE LIGHT SERIES

CREATING THE PERFECT AMBIENCE

LED Decorative Light Series - coupled with energy-efficiency and durability, our decorative lights create the mood and ambience of any living space. Selection of the right lighting can help you achieve a perfect balance between stylish yet functional interiors.



LED BERTH LIGHT



BL SERIES



Application

Passageways, Cabins, Lounges, Dining rooms, Accommodation areas

Mounting Method

2 mounting holes ø5.5mm

Material

Diffuser: Polycarbonate

Housing: Galvanized steel, Powder coated white

Electrical

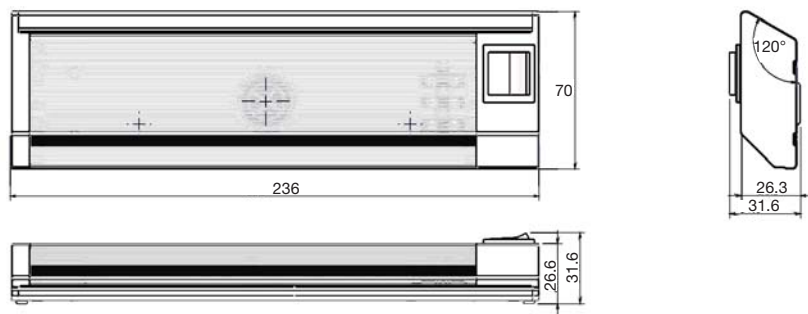
Flexible wiring, Heat resistance up to 105°C

Weight

0.25Kg

Key Features

- Special design polycarbonate diffuser to optimize the LED light transmission
- Slim profile design that is easily mounted to provide illumination performance while using significantly less energy
- Long service life of 50,000 hours L70 @ 40°C (Ta)
- Safety, EMC and IEC compliance



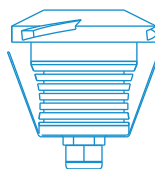
TECHNICAL SPECIFICATIONS IP 20

BH Code	Type	Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
LABL44A2	BL44A2	220V - 240V AC	4W	4000K	-20°C ~ +40°C	280lm
LABL44A1	BL44A1	100V - 120V AC	4W	4000K	-20°C ~ +40°C	280lm

Also available in other CCT.



LED RECESSED TORNADO FLOORLIGHT



TF SERIES



Key Features

- Attractive tornado style light effect on installation surface
- Low profile body when embedded
- Built-in integrated driver for ease of installation
- Weather-proof with IP67 protection
- Strong housing can withstand pressure more than 300kg
- Vibration-resistant
- Long service life of 35,000 hours
- Safety compliance

Applications

Deck floor, Staircase, Passageway, Side wall, Lounge

Materials

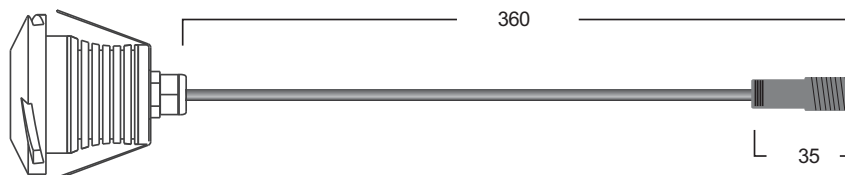
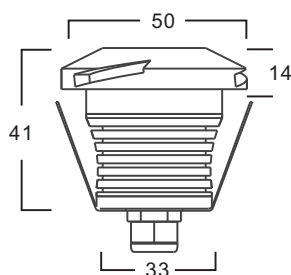
Corrosion-resistant aluminium housing with stainless steel installation clamps

Protection Class

IP67

Weight

0.14Kg



TECHNICAL SPECIFICATIONS

IP 67

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
LATF33D	TF3D	24V DC	3W	3000K	-20°C ~ +40°C	235lm

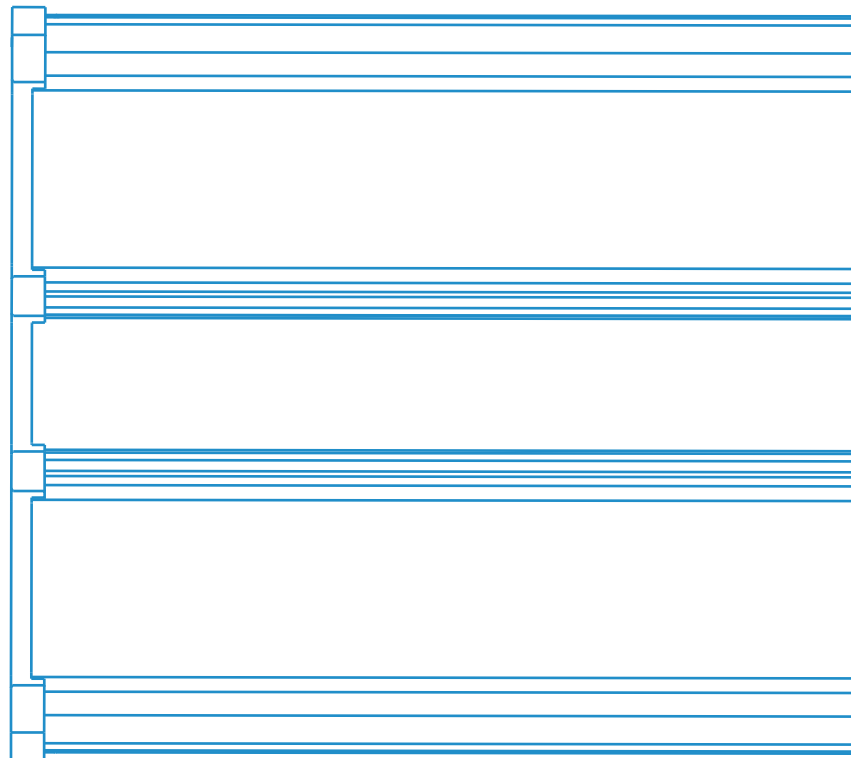
Also available in other CCT.



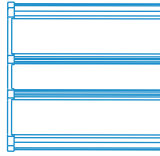
LED HIGH BAY SERIES

LUMINANCE FROM ABOVE

SOP LED High Bay Series provides high efficacy, reduced input power compared to HID or fluorescent system, and the excellent lighting quality needed for task visibility, material characteristic and colour differentiation. With a remarkable energy savings high light output LEDs, SOP LED High Bay is an ideal tool for general lighting in warehouses and manufacturing facilities.



LED HIGH BAY



HBAYI SERIES



Application

Warehouses, Manufacturing facilities,
Gymnasiums, Conventions center,
Large open commercial spaces

Mounting Method

Surface mount, cable mount or rigid stem
mount

Material

Housing: Extruded aluminium, Polycarbonate
Lens: Optical clear or diffused acrylic

Options

Control: 0-10V / Zigbee / Wifi / Bluetooth

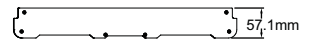
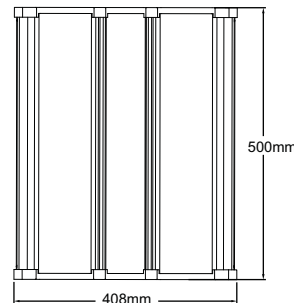
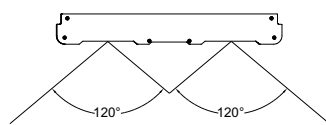
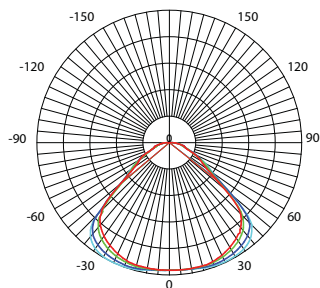
Mounting: Hook & Chain / Aircraft cable /
Rigid stem

Sensor: Motion / Daylight

24V DC emergency system

Key Features

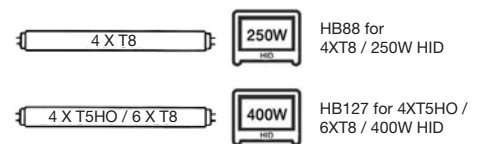
- Efficient optical design provides one-to-one replacement of metal halide and fluorescent high bays with substantial energy savings >40%
- High efficacy LEDs provide up to 140lm/w
- Extremely low profile
- Quick and simple mounting systems
- Access cover in channel for easy wiring access
- Optional "Plug and Play" occupancy and daylight sensors
- Long service life of 60,000 hours L80 @ 40°C (Ta)
- Safety, EMC and IEC/UL compliance



TECHNICAL SPECIFICATIONS IP 20

• E Denotes : With DC24V emergency LED

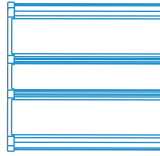
Ideal Replacement:



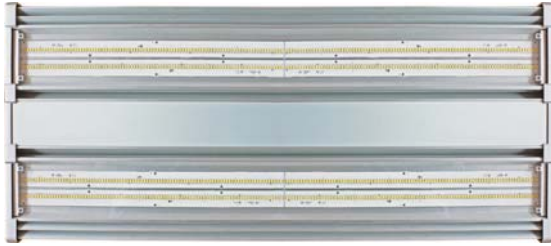
BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAHB884A3	HB88A3	110V - 277V AC	88W	4000K	120°	-20°C ~ +40°C	13400lm
LAHB884A3E	HB88A3E	110V - 277V AC	88W	4000K	120°	-20°C ~ +40°C	13400lm
LAHB885A3	HB88A3	110V - 277V AC	88W	5000K	120°	-20°C ~ +40°C	13800lm
LAHB885A3E	HB88A3E	110V - 277V AC	88W	5000K	120°	-20°C ~ +40°C	13800lm
LAHB1274A3	HB127A3	110V - 277V AC	127W	4000K	120°	-20°C ~ +40°C	20100lm
LAHB1274A3E	HB127A3E	110V - 277V AC	127W	4000K	120°	-20°C ~ +40°C	20100lm
LAHB1275A3	HB127A3	110V - 277V AC	127W	5000K	120°	-20°C ~ +40°C	20700lm
LAHB1275A3E	HB127A3E	110V - 277V AC	127W	5000K	120°	-20°C ~ +40°C	20700lm



LED HIGH BAY



HBAY II SERIES



Application

Warehouses, Manufacturing facilities,
Gymnasiums, Conventions center,
Large open commercial spaces

Mounting Method

Surface mount, cable mount or rigid stem
mount

Material

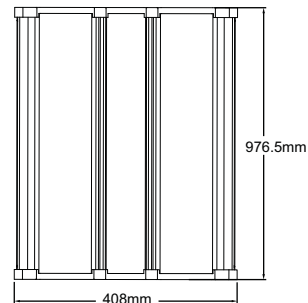
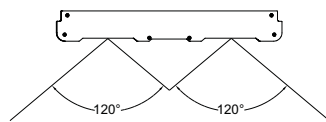
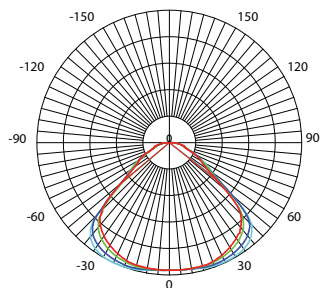
Housing: Extruded aluminium, Polycarbonate
Lens: Optical clear or diffused acrylic

Options

Control: 0-10V / Zigbee / Wifi / Bluetooth
Mounting: Hook & Chain / Aircraft cable /
Rigid stem
Sensor: Motion / Daylight
24V DC emergency system

Key Features

- Efficient optical design provides one-to-one replacement of metal halide and fluorescent high bays with substantial energy savings >40%
- High efficacy LEDs provide up to 140lm/w
- Extremely low profile
- Quick and simple mounting systems
- Access cover in channel for easy wiring access
- Optional "Plug and Play" occupancy and daylight sensors
- Long service life of 60,000 hours L80 @ 40°C (Ta)
- Safety, EMC and IEC/UL compliance



TECHNICAL SPECIFICATIONS IP 20

• E Denotes : With DC24V emergency LED

Ideal Replacement:

6 X T5HO / 8 X T8

HB176 for
6XT5HO / 8XT8

8 X T5HO



HB264 for
8XT5HO / 750W HID

BH Code	Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp (Ta)	System Lumen
LAHB1764A3	HB176A3	110V - 277V AC	176W	4000K	120°	-20°C ~ +40°C	26800lm
LAHB1764A3E	HB176A3E	110V - 277V AC	176W	4000K	120°	-20°C ~ +40°C	26800lm
LAHB1765A3	HB176A3	110V - 277V AC	176W	5000K	120°	-20°C ~ +40°C	27600lm
LAHB1765A3E	HB176A3E	110V - 277V AC	176W	5000K	120°	-20°C ~ +40°C	27600lm
LAHB2644A3	HB264A3	110V - 277V AC	264W	4000K	120°	-20°C ~ +40°C	40350lm
LAHB2644A3E	HB264A3E	110V - 277V AC	264W	4000K	120°	-20°C ~ +40°C	40350lm
LAHB2645A3	HB264A3	110V - 277V AC	264W	5000K	120°	-20°C ~ +40°C	41500lm
LAHB2645A3E	HB264A3E	110V - 277V AC	264W	5000K	120°	-20°C ~ +40°C	41500lm

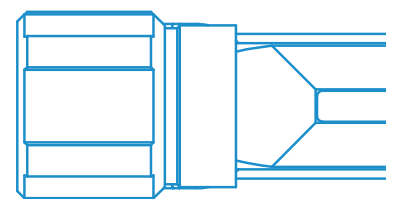
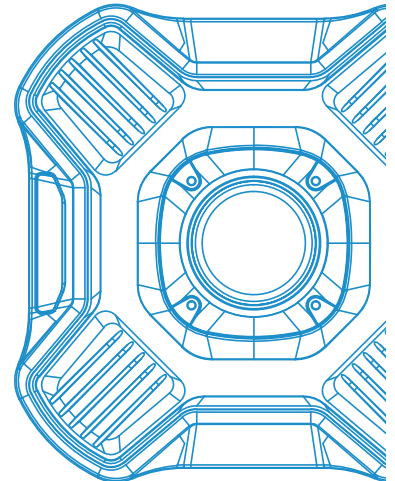


RECHARGEABLE LED PORTABLE SERIES

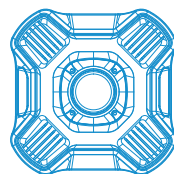
LIGHTING THE WAY

SOP rechargeable portable LEDs offer lightweight lighting mobility for busy crew on the go. Removed from power cable, you can bring the lights to the darkest remote corner. Deployment on-site is easy with various mounting options. Dimmable and weatherproof, SOP rechargeable LEDs are your perfect portable lighting solution.

IP 54



RECHARGEABLE LED PORTABLE FLOODLIGHT



MX3 SERIES



Power Adaptor

Application

Decks, Marinas, Docks, Ports, Warehouses

Material

Aluminium alloy LED front frame, polycarbonate diffuser and ABS plastic housing

Protection Class

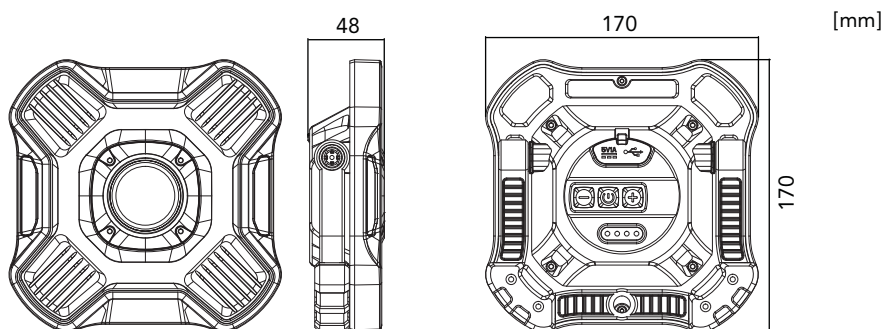
IP54

Weight

0.7Kg

Key Features

- High performance COB LED with rechargeable lithium ion battery
- 5-step dimming
- Compact and lightweight
- Vibration and impact resistant
- 50,000 hours LED lifespan, battery life up to 500 charges
- USB power bank function for emergency charging of mobile devices
- Indicator lights show battery level and charging status
- Swivel stand can rotate 180°
- Safety compliance, RoHS.



TECHNICAL SPECIFICATIONS

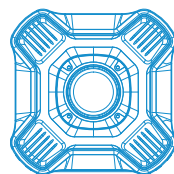
IP 54

BH Code	Type	Main Voltage	Power	CCT	Charging Time	Ambient Temp (Ta)	System Lumen
LAMX3FA	MX3	100V - 240V AC	20W	5000K	6 hrs	-20°C ~ +50°C	2600lm

DIMMING SETTINGS

Brightness level	100%	80%	60%	40%	20%
Lumens output	2600lm	2080 lm	1560 lm	1040 lm	520lm
Light run-time	1.5 hrs	2 hrs	5 hrs	7 hrs	9 hrs

RECHARGEABLE LED PORTABLE FLOODLIGHT



MX5 SERIES



Power Adaptor

Application

Decks, Marinas, Docks, Ports, Warehouses

Material

Aluminium alloy LED front frame, polycarbonate diffuser and ABS plastic housing

Protection Class

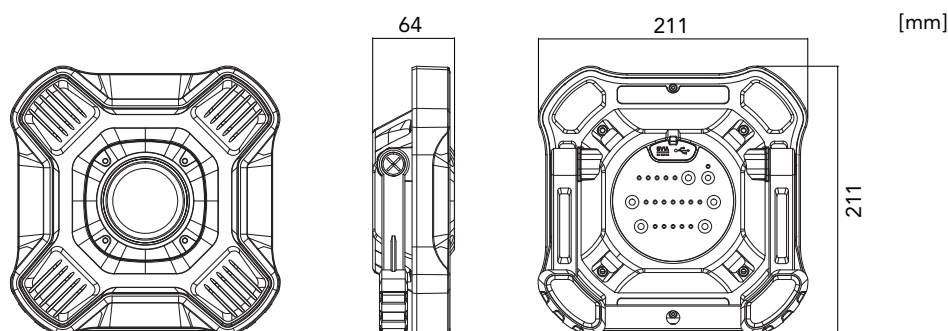
IP54

Weight

1.5Kg

Key Features

- High performance COB LED with rechargeable lithium ion battery
- 7-step dimming
- Compact and lightweight
- Vibration and impact resistant
- 50,000 hours LED lifespan, battery life up to 500 charges
- USB power bank function for emergency charging of mobile devices
- Indicator lights show battery level and charging status
- Swivel stand can rotate 180°
- Safety compliance, RoHS.



TECHNICAL SPECIFICATIONS

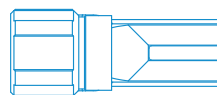
IP 54

BH Code	Type	Main Voltage	Power	CCT	Charging Time	Ambient Temp (Ta)	System Lumen
LAMX5FA	MX5	100V - 240V AC	40W	5000K	3 hrs	-20°C ~ +50°C	5000lm

DIMMING SETTINGS

Brightness level	100%	86%	72%	58%	44%	30%	16%
Lumens output	5000lm	4300lm	3600lm	2900lm	2200lm	1500lm	800lm
Light run-time	2 hrs	2.3 hrs	2.7 hrs	3.4 hrs	4.5hrs	6.5hrs	12 hrs

RECHARGEABLE LED PORTABLE WORK LIGHT



MS3 SERIES



Micro USB port



Micro USB
Power Adaptor

Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards

Material

Aluminium alloy handle, polycarbonate diffuser and thermoplastic rubber at both ends for impact protection

Protection Class

IP54

Weight

0.3Kg

Mounting Method



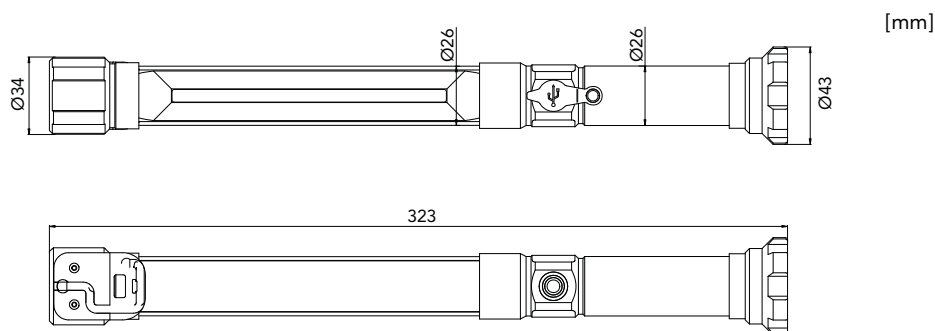
Retractable hook



Magnetic base

Key Features

- Heavy duty COB LED
- Lithium ion battery rechargeable by 5V 1A Micro USB port (power adapter included)
- 2-step dimming + torch mode (LED at the top)
- Ultra-compact and lightweight
- Vibration and impact resistant
- Hanger hook and magnetic base for easy mounting
- 50,000 hours LED lifespan, battery life up to 500 charges
- Indicator light turns red when power is low
- Safety compliance, RoHS.



TECHNICAL SPECIFICATIONS

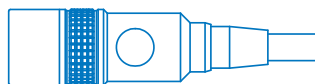
IP 54

BH Code	Type	Main Voltage	Power	CCT	Charging Time	Ambient Temp (Ta)	System Lumen
LAMS3A	MS3	100V - 240V AC	3W	5000K	3 hrs	-20°C ~ +50°C	300lm

DIMMING SETTINGS

Brightness level	100%	30%	Torch mode
Lumens output	300lm	100lm	50lm
Light run-time	2.5 hrs	10 hrs	24 hrs

FLEXIBLE LED CHART TABLE LIGHT



CL55A SERIES



Applications

Bridge, Cabins

Materials

Anodized aluminum body

Protection Class

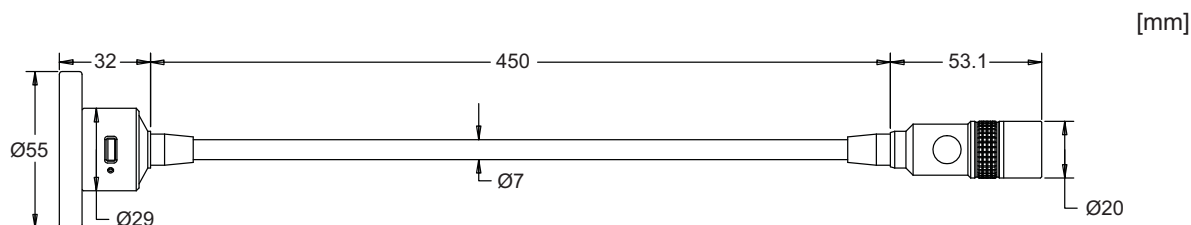
IP20

Weight

0.216Kg

Key Features

- 53cm long flexible gooseneck
- High quality CREE XP-G LED light source
- 3-step dimming
- Push-pull focusing lens
- Wall mount or desk mount
- Long LED L70 lifespan of 60,000 hours
- Vibration-resistant
- USB Type-C power input (adaptor included)
- EMC safety compliance to EN 55015, EN 61547, EN 61000-3-2 and EN 61000-3-3 standards



TECHNICAL SPECIFICATIONS

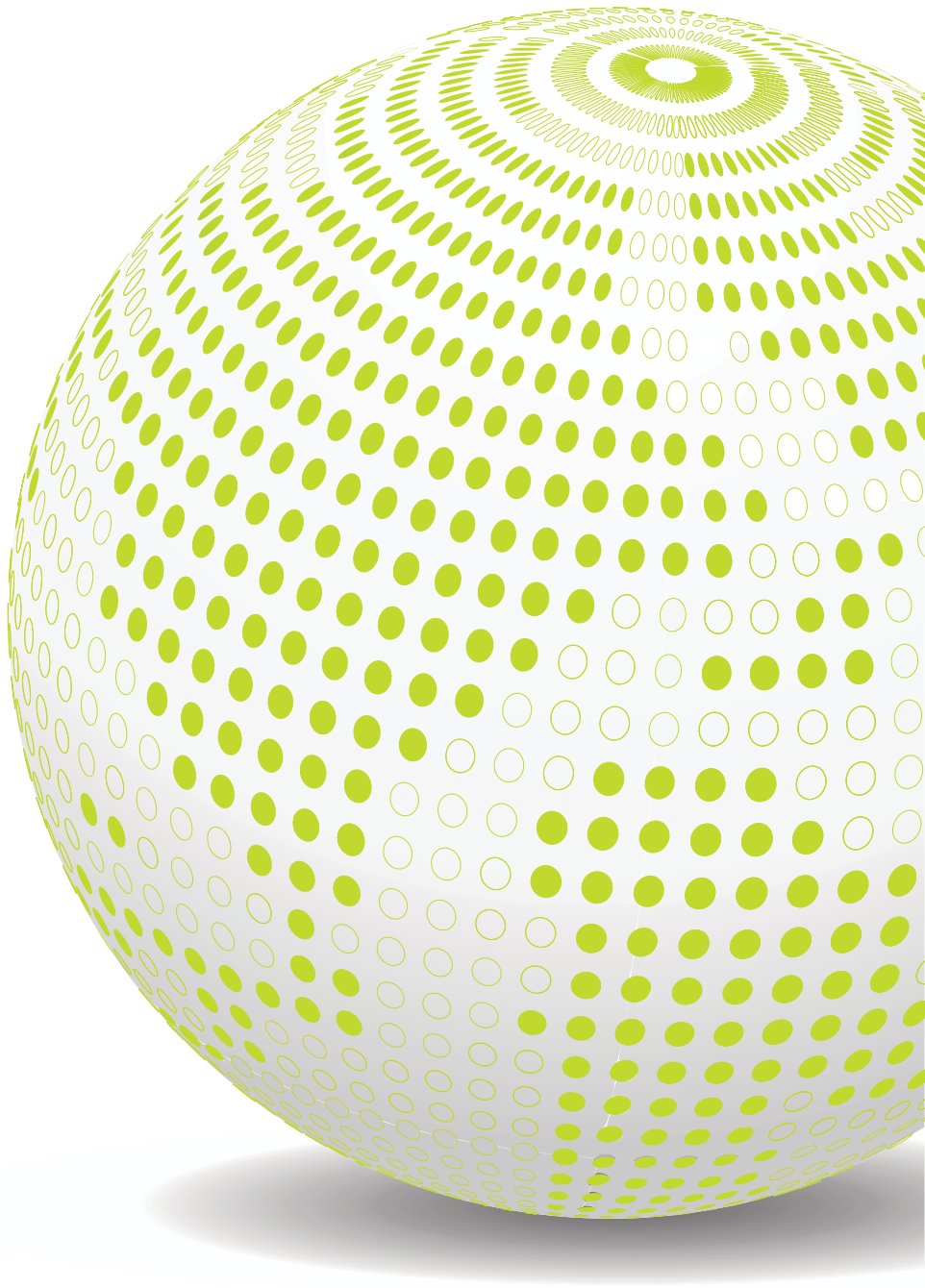
IP 20

BH Code	Type	Main Voltage	Power	CCT	Ambient Temp (Ta)	System Lumen
LACL55A	CL55A	100V - 240V AC	2W	6500K	-20°C ~ + 40°C	200lm

DIMMING SETTINGS

Brightness level	100%	60%	30%
Lumens output	200lm	120lm	60lm

*Half-press button to toggle dimming levels. Full-press button to turn On/Off.



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