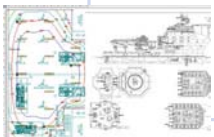


## Marine, Offshore and Industrial Green Lighting Solutions



### Complimentary Lux Calculation

For initial stages of planning/ Design up to completion  
Summary reports of light levels, luminaries to use etc.  
Accurate simulation



### Product Demonstration and Mock up

Evaluate Quality and Performance prior to specification or purchase  
Samples provided to install for mock up area



### Calculate Your ROI

Cost savings from Retrofitting or Replacement of Lightings  
Reduced maintenance and spares  
Time taken for Return of Investment



### Extended Warranty

Available upon request

# HANDLAMP / PENDANT / WALL LIGHT



## HANDLAMP (11W)



### Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Vibration-resistant
- Energy savings of up to 90%
- Long service life of 50,000 hours L70 @ 45°C
- Safety, EMC and IEC compliance

### Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards  
Alternative to 100W incandescent bulb

### Material

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

### Options

24VDC 10W

### Weight

1.0Kg

## PENDANT LIGHT (30W)



### Key Features

- Complete solution with heat sink, driver and polycarbonate diffuser
- Vibration-resistant
- Energy savings of up to 90%
- Long service life of 30,000 hours L70 @ 40°C
- Safety, EMC and IEC compliance

### Application

Engine rooms, Low visibility areas, Decks, Warehouses, Yards  
Alternative to 300W incandescent bulb

### Material

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

### Options

Red Illumination

### Weight

1.5Kg

## TECHNICAL SPECIFICATIONS

IP 56

Ideal Replacement:   
11W for 100W 30W for 300W

Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp	System Lumen
HANDLAMP (11W)						
IGLHGLMA01050PC	100V ~ 240V AC/DC	11W	5,000K	160°	-30 ~ 45°C	950lm
PENDANT LIGHT (30W)						
IGLEGLMU03050PC	100V ~ 240V AC/DC	30W	5,000K	180°	-30 ~ 40°C	2,900lm

Also available in other CCT.



Also Available in:



Ideal Replacement:



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

# FLOODLIGHT



## MFL SERIES



### 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
- Compact and light weight design
- Long service life of 100,000 hours
- 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

### Options

100V ~ 120V AC  
40° Beam Angle

### Weight

1.9Kg

## TECHNICAL SPECIFICATIONS

IP 66

Ideal Replacement:

Type	Main Voltage	Power	CCT	Beam Angle	Ambient Temp	System Lumen
IGLMFLB15C0A4	220V ~ 240V AC	56W	5,000K	120°	-30 ~ 50°C	5,200lm

Also available in other CCT and beam angle upon request.



Also Available in:



Ideal Replacement:



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## WATERTIGHT 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 50°C
- Special designed clear polycarbonate diffuser to optimize the LED light transmission
- Long service life of >50,000 hours
- Safety, EMC and IEC compliance

### Application

Decks, Engine rooms, Yards, Coldrooms

### Mounting Method

Surface mounted, Other mounting accessories available

### Material

Diffuser: Polycarbonate  
Housing: Stainless steel or Zinc coated steel, Powder coated white

### Electrical

Flexible wiring, Heat resistant up to 105°C

### Options

100V ~ 120V AC  
Battery backup system  
Emergency lighting

### Weight

WSB-211: 3.3Kg WSB-221: 3.6Kg

## RECESSED RC SERIES



### Key Features

- Triac dimming compatible
- Integrated with LED linear module(s) to provide high illumination performance
- Long service life of >50,000 hours
- Safety, EMC and IEC compliance

### Application

Accommodation areas, Passageways, Cabins

### Mounting Method

4 mounting brackets, Hole cut out: 638 X 211 mm

### Material

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

### Electrical

Flexible wiring, Heat resistant up to 105°C

### Options

100V ~ 120V AC  
Battery backup system  
Emergency lighting

### Weight

RCB-211: 3.7Kg RCB-221: 4.0Kg

## TECHNICAL SPECIFICATIONS

Ideal Replacement:

Type	Dimensions (LxWxH)	Main Voltage	Power	CCT	Ambient Temp	IP Rating	System Lumen
<b>WATERTIGHT WS SERIES</b>							
IGLWSB221ZH0	730x153x110mm	220V ~ 240V AC	2x12.5W	5,000K	-30 ~ 45°C	IP 67	1,940lm
<b>RECESSED RC SERIES</b>							
IGLR CB2210	662x262x75.6mm	220V ~ 240V AC	2x12.5W	5,000K	-30 ~ 45°C	IP 44	1,900lm

Also available in other CCT.

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



Also Available in:



IGLWSB211ZH0 (2 Feet)  
IGLWSB421ZH0 / IGLWSB441ZH0 (4 Feet)



IGLRCB2110 (2 Feet)  
IGLRCB4210 / IGLRCB4410 (4 Feet)

Ideal Replacement:



IGLWSB211ZH0 (2 Feet)  
IGLWSB421ZH0 (4 Feet)  
IGLWSB441ZH0 (4 Feet)



IGLRCB2110 (2 Feet)  
IGLRCB4210 (4 Feet)  
IGLRCB4410 (4 Feet)

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## DOWNLIGHT



### Application

Cabins, Passageways, Meeting rooms

### Material

Marine grade aluminium alloy with powder coating,  
Glass diffuser (DLA07030)  
Polycarbonate diffuser (DLA12040 / DLA15040)

### Protection Class

IP44 in conjunction with ceiling

### Ideal Replacement



IGL DLA07030  
for 50W Halogen

IGL DLA12040  
for 18W CFL

IGL DLA15040  
for 26W CFL

## PANEL LIGHT



### Application

Cabins, Passageways, Cafeterias

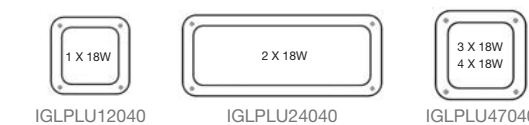
### Material

Marine grade aluminium, comes with high-efficiency light guide

### Protection Class

IP20, IP44

### Ideal Replacement



IGLPLU12040

IGLPLU24040

IGLPLU47040

## BERTH LIGHT



### Application

Cabins, Lounges, Accommodation areas

### Mounting Method

2 mounting holes ø5.5mm / Surface mounted

### Material

Diffuser: Polycarbonate  
Housing: Galvanized steel, Powder coated white

### Electrical

Flexible wiring, Heat resistance up to 105°C

### Protection Class

IP20

## HIGH BAY



### Application

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

### Mounting Method

Surface mounted / Suspended wire

### Material

Housing: Extruded aluminium, Polycarbonate  
Lens: Optical / Clear diffused

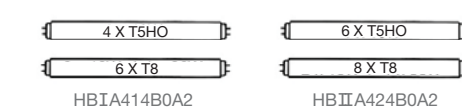
### Options

Control: Wireless  
Dimming: 0-10V  
Sensor: Motion / Daylight

### Protection Class

IP20

### Ideal Replacement



HBIA414B0A2

HBIA424B0A2

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## About SOP

S.O.P (Save Our Planet) assures quality and brings energy efficiency to our innovative lighting designs. Our vision is to supply lightings that can withstand harsh environments and to achieve sustainable development through energy optimisation and waste minimization. S.O.P LED lightings are designed to operate constantly under high operating temperatures and are developed in accordance to stringent specifications - providing reliable LED solutions with long service life which reduces maintenance and replacement. With the compliance to also EMC requirements, S.O.P is indeed an ideal choice of LED lightings solutions.

With over 16 years of experience in LED Solutions, we have built our competencies in:

- Developing corrosion and vibration resistant outdoor lightings - extended service life
- Creating comfortable, high performance indoor lightings for the ideal lighting effect
- Stringent quality management to ensure best quality lightings are delivered

We are focused and committed in the development of a wider range of industrial, marine and offshore lighting. Be it a new vessel or an upgrade, 'Go Green' with S.O.P.

Project references: Shipyards, Contractors, Consultants, Owners, - AHTS, PSV, Dredgers, Tankers, Accommodation barges, Ferries, Tug and crew Boats, Floating dock, Conversions, Ports and Other Land-based projects

For more references, please visit: [sop-led.com/projects/](http://sop-led.com/projects/)



Manufacturing & R&D Capabilities

- In-house: LED engine, Luminaire, electronic, optical and mechanical design
- Control - Hardware /software development
- Advanced digital production and automation process facilities



Quality Assured

- Japan JIS 5600 7-1 standard
- Vibration resistance
- EMC compliance - IEC 55015, EN61000-3-2, EN61547, EN60533
- Safety - EN60598
- Degrees of protection - EN60529



Long Service Life

- 100,000 hours' service life at operating temperature of 50°C for ACIC driver on board technology.



Maximum Performance

- High energy-efficient LED packages from Samsung, Lumiled, Osram and LG.



[www.sop-led.com](http://www.sop-led.com)



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