

**Hella marine** 

*Vision and Innovation*

English Catalogue



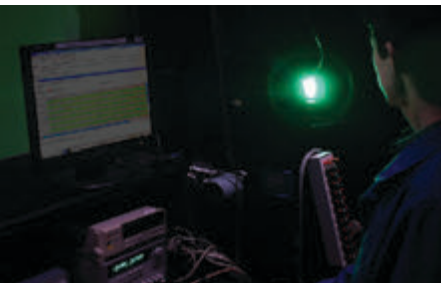
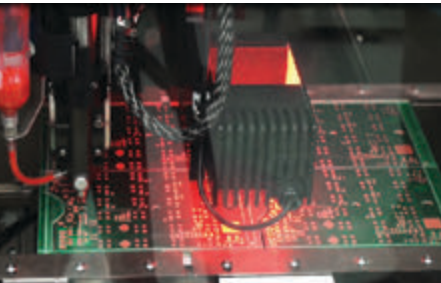
World leading LED technology. Power saving and ultra durable.

[www.hellamarine.com](http://www.hellamarine.com)

# Vision and Innovation



Hella marine, Auckland, New Zealand.



Welcome to the Hella marine catalogue, your complete guide to advanced lighting solutions engineered for energy efficiency, safety and reliability.

Founded in 1925 by HELLA in Lippstadt, Germany, Hella marine is now headquartered in Auckland, New Zealand, a country with a rich maritime history, world class boat building and yacht racing success.

Combining this passion for the Ocean with decades of LED product design expertise Hella marine lamps are 'Fit and Forget' by design, offering complete piece of mind and enduring Safety at Sea.

Through ongoing R&D, innovative design and use of high quality materials Hella marine continues to set benchmarks for extremely reliable and highly efficient products.

Today Hella marine is a globally recognised and trusted brand with LED navigation and high performance lighting systems available in over 60 countries through the global HELLA network and specialist marine distributors.

ISO 9001

**BUREAU VERITAS**  
Certification



N° 201297

**Hella marine is certified to the international quality standard ISO 9001:2008 for:**

'The Design and Manufacture of Marine Navigation Lighting, General Lighting, LED Based Lighting and Associated Electronic Control Units.

The Design and Manufacture of Automotive Lighting and Signalling Equipment, General Lighting, Optical Products and Plastic Components.'

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# The Hella marine Advantage

At sea, power is often a scarce resource. Highly efficient and durable LED lighting has a substantial role to play in conserving energy and enhancing a vessel without sacrificing functionality or compromising safety.

Our vision is to provide world leading products that set benchmarks for quality, reliability, safety and energy efficiency while satisfying customer expectations for outstanding service and support. Hella marine 'Fit and Forget' LED lighting is firmly established as the solution of choice that meets long term reliability and economic considerations for astute owners and operators.

**LED**

## ***Class Leading Efficiency***

Combining efficient LED sources with advanced optic technology, Hella marine LED products deliver more light output per watt than incandescent based lamps with significant energy savings.

Ultra low heat signatures reduce heat onboard and prevent damage to surrounding materials.

**IP 67**  
COMPLETELY  
SEALED

## ***IP 67 - Completely Sealed***

Preventing moisture from corroding internal LED electronics is vital for long term durability in the harsh marine environment.

Hella marine products are completely sealed and purpose designed for interior or exterior use, wet or dry.

**HD**  
GRILAMID  
LENS

## ***Heavy Duty Grilamid Lens***

Many Hella marine LED products utilise Grilamid, a high performance polyamide manufactured in Switzerland, as a heavy duty lens material. Grilamid is a revolutionary transparent plastic with exceptionally high impact strength and resistance to UV and chemical damage.

**CE**

## ***Electromagnetic Compatibility (EMC)***

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards.

This protects the radio, communication, navigation and other electrical equipment onboard from possible interference with our products.

**UV  
RESISTANT**

## ***Outstanding UV and Impact Resistance***

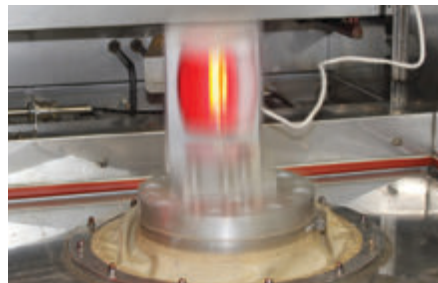
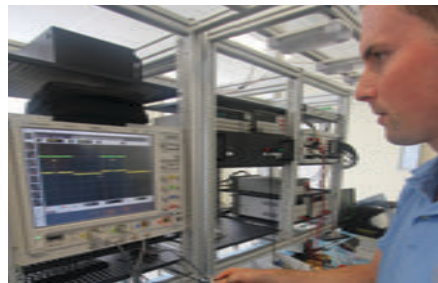
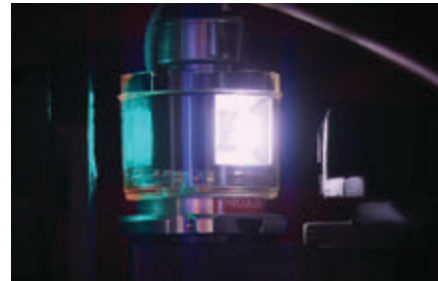
Hella marine lamps utilise advanced impact resistant polymers that will not yellow or deteriorate in the harsh marine environment.

**5 YR  
WARRANTY**

## ***5 Year Warranty***

All Hella marine LED based lighting products carry a Five Year Warranty providing peace of mind that the product will stand the test of time.

For more information visit: <http://www.hellamarine.com/en/about/warranty/>





X-46 [www.x-yachts.com](http://www.x-yachts.com)



### **Warranty - Standing behind the product**

**All LED based lighting products supplied by Hella marine carry a Five-Year Warranty from end user purchase covering faults in materials, components or workmanship, with the exceptions as stated below:**

*Hella marine NavILED TRIO Tri Colour LED navigation lamps carry a Seven-Year Warranty*

*Hella marine HID (Xenon) and Halogen based Deck Floodlights carry a One-Year Warranty.*

*Hella marine bulb based interior and exterior lamps and products listed in the accessories section of this catalogue carry a One-Year Warranty.*

In the unlikely event that you should experience a confirmed warranty related problem with your purchase, Hella marine will, at its discretion, either repair, replace or refund the purchase price of the product.

Warranty services may be obtained by returning the product within the warranty period to the Hella dealer where the product was originally purchased.

This warranty is in addition to and does not preclude any other rights or remedies available to the consumer under any local legislation related to the provision of goods or services.

**This warranty does not cover:**

1. Claim/s as a result of normal wear and tear or of any modifications and / or alterations to the product in any shape or form.
2. Claim/s as a result of non-compliance of the assembly, service and operating instructions and/or any unfit or improper use.
3. Any expenses incurred in the process of making the claim.

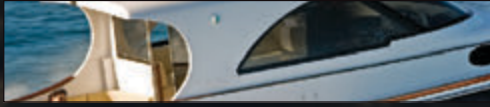


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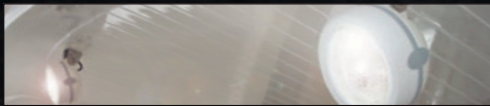
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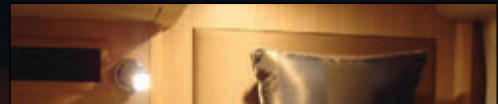
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## IP Degrees of Protection Definition

IP stands for International Protection, the IP degrees of protection are determined by DIN 40050 part 9.

This standard exists to specify the exact protection of electrical equipment against penetration by solid foreign matter, including dust and water. The exact degree of protection is achieved by various tests.

E.g.; The IP rating of the 8517 series deck floodlight is listed as IP 6K 9K.  
This means dust tight and protected from high pressure cleaning.

### IP 6K 9K

First numeral

– Protection against the ingress of solid foreign objects (table 1)

Second numeral

– Protection against the ingress of water (table 2)

**Table 1:**  
**Protection against the ingress of solid foreign objects (including dust)**

X.....	not tested
0.....	not protected
1.....	solid foreign objects $\varnothing \geq 50$ mm
2.....	solid foreign objects $\varnothing \geq 12.5$ mm
3.....	solid foreign objects $\varnothing \geq 2.5$ mm
4.....	solid foreign objects $\varnothing \geq 1.0$ mm
5 and 5K.....	dust protected
6 and 6K.....	dust tight

**Table 2:**  
**Protection against the ingress of water**

X.....	not tested
0.....	not protected
1.....	vertical dripping
2.....	dripping (inclined 15°)
3.....	spraying
4.....	splashing
4K.....	same with increased pressure
5.....	jetting
6.....	powerful jetting
6K.....	same at increased pressure
7.....	temporary immersion
8.....	continuous immersion
9K.....	high pressure/steam jet cleaning





*Navigation Lamp Requirements and Technology*

**Hella marine**   
*Vision and Innovation*

## International Standards

Hella marine navigation lamps comply with the International Regulations for Prevention of Collisions at Sea (IMO COLREG 72).

This IMO compliance, together with supplementary national or regional requirements, is listed with each navigation lamp series throughout the catalogue.

### Approval types:



Complies with IMO (International Maritime Organization) requirements under the International Regulations for the Prevention of Collisions at Sea. (IMO COLREG 72) IMO COLREG 72 forms the international basis for legal navigation lighting on vessels.



Approved under the Marine Equipment Directive (MED) 96/98/EC last modified by directive 2008/67/EC for use throughout Europe in all EC member states for both pleasure and commercial vessels.



Suitable for vessels compliant with RCD (Recreational Crafts and Personal Watercraft Directive) 2013/53/EU. RCD promotes a single set of EU safety and technical requirements for new recreational vessels less than 24m in length within the European Community.



Complies with USCG (United States Coast Guard) requirements. Lamps carry a marking for minimum visible distance in nautical miles, e.g. USCG 2 NM.



Complies with ABYC (American Boat and Yacht Council) Navigation Lamp Standard A-16.

### Certifying bodies:



Approved by the German BSH (Bundesamt für Seeschifffahrt und Hydrographie) and carry BSH type approval numbers. BSH was formerly called DHI (Deutsches Hydrographisches Institut).



Approved by the Italian RINA (Registro Italiano Navale) authority.

### Lamps requirements by vessel length

For vessels less than 50 meters in length overall, IMO COLREG 72 describes the following minimum visible distances for navigation lamps.

Supplementary national or regional requirements approvals may also apply.

#### Vessels 0-12 meters / 0-40 feet in length:

White, Red, Green All Round lamps	2 NM
Masthead lamp,	2 NM
Port and Starboard lamps,	1 NM
Stern lamp,	2 NM
Tri Colour lamp, (Sailing vessels under sail only)	2 NM

#### Vessels 12-20 meters / 40-65 feet in length:

White, Red, Green All Round lamps,	2 NM
Masthead lamp,	3 NM
Port and Starboard lamps,	2 NM
Stern lamp,	2 NM
Tri Colour lamp, (Sailing vessels under sail only)	2 NM

#### Vessels 20-50 meters / 65-150 feet in length:

White, Red, Green All Round lamps,	2 NM
Masthead lamp,	5 NM
Port and Starboard lamps,	2 NM
Stern lamp,	2 NM





## Wheelmark Approval



The Wheelmark for navigation lights symbolises conformity with the Marine Equipment Directive (MED) 96/98/EC, which calls upon IMO COLREG 1972 and the norms EN 14744 (European standard for navigation lights on inland and sea-going vessels) and EN 60945 (Maritime navigation and radiocommunication equipment and systems).

Wheelmark certified Hella marine LED navigation lamps are approved throughout Europe in all EC member states for both pleasure and commercial vessels.

Wheelmark approvals replace the previously required certificates of the national authorities with the aim of ensuring that the equipment meets a common standard of safety and performance valid in every member state of the EU.

A predominant safety requirement of EN 14744 for LED navigation lights is the monitoring and control of light output deviations caused by service life conditions. The Hella marine solutions are

- Either;
- Sophisticated self control and diagnostic electronics integrated into the navigation lamp. The electronics check and measure each lamp ensuring light intensity, and consequently the lamp's visibility performance, permanently correspond to the visibility requirements of the norm for ongoing safety and reliability at sea.
- Or:
- An integrated electronic timer recording the operating hours of a lamp. The timer will indicate 'service mode' by flashing the lamp once thousands of hours of operation have been reached.

The MED certification of Hella marine lamps can be recognized by the symbol of a ship's wheel (Wheelmark) engraved onto the top section of the shroud, and also onto the top section of the lens.

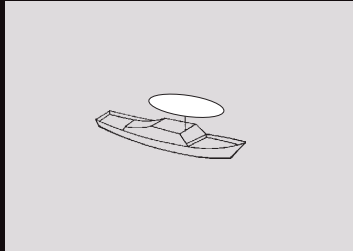
The MED lists statutory equipment carried and used on ships which are registered under the flags of the European Union member states which have to meet the international conventions developed by the International Maritime Organisation (IMO).

**IMO COLREG 72 Lights and Visibility - Powerboats**

**IMO COLREG requirements for navigation lighting on powerboats less than 50m LOA (Length Overall).**

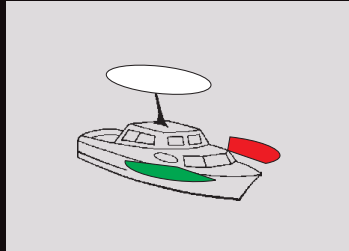
Note - Sailboats under motor adopt the rules for Powerboats.

**Powerboats up to 7m. Max 7 knots**



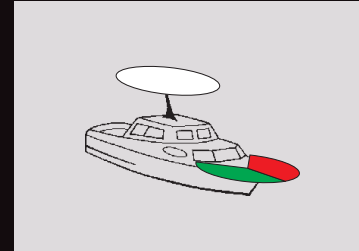
1 All Round White lamp

**Powerboats up to 12m where Masthead and Stern lamps cannot be mounted**



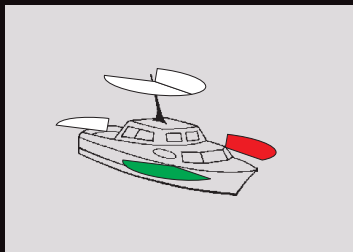
1 All Round White lamp  
1 Port lamp  
1 Starboard lamp

**Powerboats up to 12m where Masthead and Stern lamps cannot be mounted**



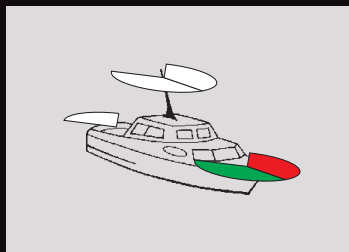
1 All Round White lamp  
1 Bi-Colour lamp

**Powerboats up to 20m**



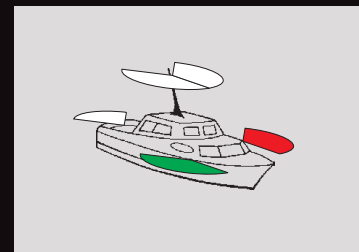
1 Masthead lamp  
1 Port lamp  
1 Starboard lamp  
1 Stern lamp

**Powerboats up to 20m**



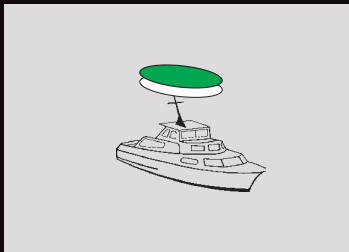
1 Masthead lamp  
1 Bi-Colour lamp  
1 Stern lamp

**Powerboats up to 50m**



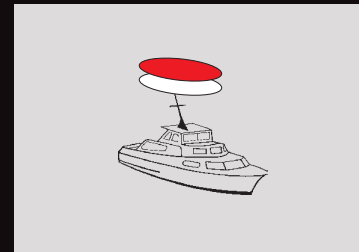
1 Masthead lamp  
1 Port lamp  
1 Starboard lamp  
1 Stern lamp

**A vessel less than 50m engaged in trawling**



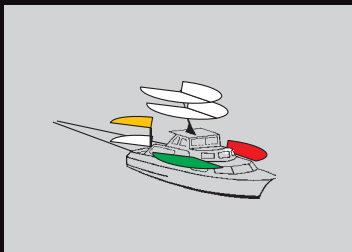
1 All Round Green lamp  
1 All Round White lamp  
mounted above one another

**A vessel less than 50m engaged in fishing, other than trawling**



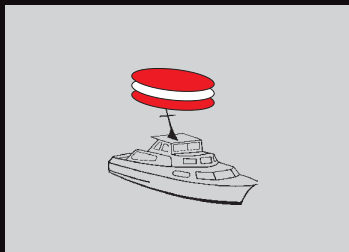
1 All Round Red lamp  
1 All Round White lamp  
mounted above one another

**Powerboats towing with a tow length of less than 200m**



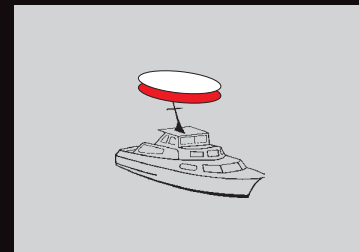
In addition to Port, Starboard and Stern lamps  
1 Towing lamp mounted above the stern lamp  
2 Masthead lamps in a vertical line  
(When the tow length exceeds 200m, three Masthead lamps in a vertical line)

**A vessel engaged in diving operations**



1 All Round Red lamp  
1 All Round White lamp  
1 All Round Red lamp  
mounted above one another

**A vessel engaged in pilotage duty**



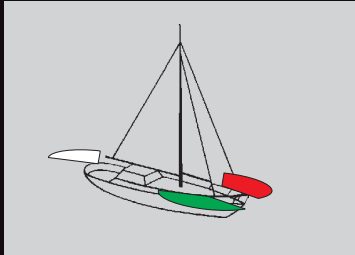
In addition to Port, Starboard, Masthead and Stern lamps  
1 All Round White lamp  
1 All Round Red lamp  
mounted above one another



**IMO COLREG requirements for navigation lighting on sailboats less than 50m LOA (Length Overall).**

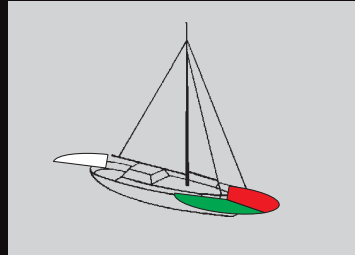
Note - Sailboats under motor adopt the rules for Powerboats.

**Sailboats up to 20m under sail**



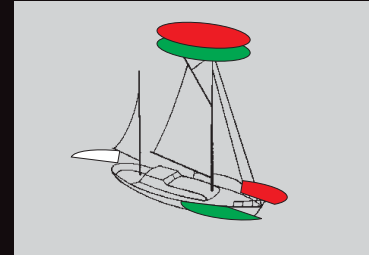
- 1 Port lamp
- 1 Starboard lamp
- 1 Stern lamp

**Sailboats up to 20m under sail**



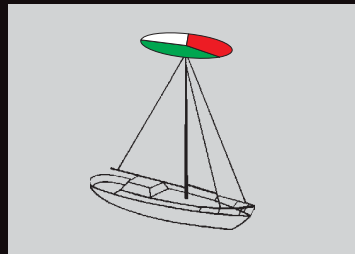
- 1 Bi-Colour lamp
- 1 Stern lamp

**Sailboats more than 20m under sail**



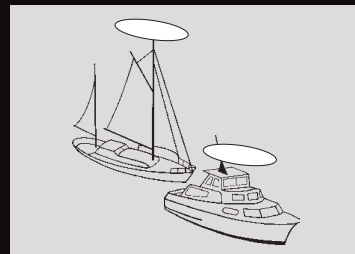
- 1 All Round Red lamp above
- 1 All Round Green lamp
- 1 Port lamp
- 1 Starboard lamp
- or 1 Bi-Colour lamp
- 1 Stern lamp

**Sailboats up to 20m under sail**



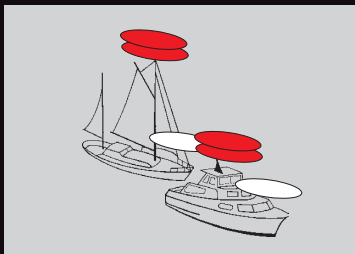
- 1 Tri-Colour lamp

**Sailboats and Powerboats less than 50m at anchor**



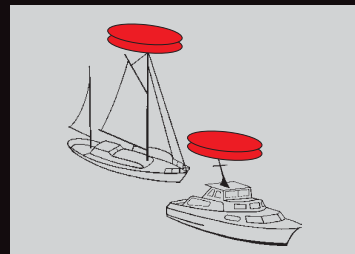
- 1 All Round White lamp

**Sailboats and Powerboats more than 12m grounded**



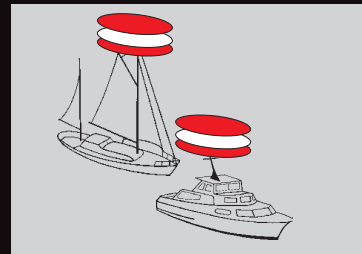
- 1 All Round White lamp
- 2 All Round Red lamps mounted above one another

**Sailboats and Powerboats more than 12m not under command (NUC)**



- In addition to Port, Starboard and Stern lamps
- 2 All Round Red lamps mounted above one another

**Sailboats and Powerboats more than 12m manoeuvring with difficulty (RAM)**



- In addition to Port, Starboard and Stern lamps
- 1 All Round Red lamp
- 1 All Round White lamp
- 1 All Round Red lamp mounted above one another

# LED Navigation Lighting Quick Reference Guide

	Series Name / Series Number	Visible Distance	COLREG Max. length	Vessel type	Approvals / Certifying Bodies	Installation Surface	Light Colour	Power Consumption	Pg.
	NaviLED PRO 9900 Port	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	Red	< 2W	17
	NaviLED PRO 9900 Port	3 NM	50M plus	Powerboat	COLREG, USCG, RINA, A-16, RCD	Vertical	Red	< 2W	17
	NaviLED Compact 0520 Port	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Vertical	Red	< 1W	21
	NaviLED Deck Mt 0620 Port	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, RCD	Horizontal	Red	< 1W	22
	NaviLED PRO 9908 Starboard	2 NM	50M	Yacht & Powerboa	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	Green	< 2W	17
	NaviLED PRO 9908 Starboard	3 NM	50M plus	Powerboat	COLREG, USCG, RINA A-16, RCD	Vertical	Green	< 2W	17
	NaviLED Compact 0520 Starboard	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Vertical	Green	< 1W	21
	NaviLED Deck Mt 0620 Starboard	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, RCD	Horizontal	Green	< 1W	22
	NaviLED PRO 9909 Stern	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	White	< 2W	17
	NaviLED PRO 9909 Stern	3 NM	50M plus	Powerboat	COLREG, USCG, RINA A-16, RCD	Vertical	White	< 2W	17
	NaviLED Compact 0520 Stern	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Vertical	White	< 2W	21
	NaviLED PRO 9940 Masthead	3 NM	20M	Powerboat & Yachts under motor	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	White	< 2.5W	17
 <b>New!</b>	NaviLED PRO 9940 Masthead	5 NM	50M	Powerboat & Yachts under motor	COLREG, USCG, WHEELMARK, RCD	Vertical	White	4W	17
 <b>New!</b>	NaviLED PRO 9941 Bi Colour	2 NM	50M	Yacht & Powerboat	COLREG, USCG, A-16, WHEELMARK, RCD	Vertical	Red / Green	< 2W	17
	NaviLED Trio 0650 Tri Colour	2 NM	20M	Yacht	COLREG, USCG, A-16, BSH, RCD	Horizontal	R G W White	< 3.5W Sailing < 1.5W Anchor	15
 <b>New!</b>	NaviLED 360 0960 White	2 NM	50M	Yacht & Powerboat	COLREG, USCG, A-16, WHEELMARK, RCD	Horizontal	White	< 1.5W	19
	NaviLED 360 9910 White	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, RCD	Horizontal	White	< 1.5W	19
	NaviLED 360 0910 White	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Horizontal	White	< 1.5W	19
	NaviLED 360 0910 Red	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Horizontal	Red	< 1.5W	19
	NaviLED 360 0910 Green	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Horizontal	Green	< 1.5W	19





*LED Navigation Lamps*

**Hella marine**   
*Vision and Innovation*

## LED Navigation Lamps



## LED Navigation Lamp Technology

Hella marine LED based navigation lamps provide power saving, highly visible and ultra durable lighting for reliability and safety at sea.

### Ultra Low Power Consumption

Combining efficient LED light sources with advanced optic technology, Hella marine LED products deliver more light output per watt than traditional bulb lamps and thus provide considerable power saving.

Hella marine NavILED PRO navigation lamps use less than 10% of the power required to run a 25W incandescent bulb navigation lamp certified to the same visible distance.

### No bulbs, No maintenance. Ultra long service life

Hella marine LED technology has no filaments to break, thus making the LED lamps extremely shock and vibration resistant for reliable illumination and safety.

Our engineering teams have developed a unique range of highly demanding tests to lift product reliability to new standards.

### Safe and highly visible

Advanced LED navigation lamp optics deliver optimal horizontal and vertical light distribution according to international standards. They provide enhanced visibility compared to bulb navigation lamps. Cut-off angles are ultra precise, clearly indicating a vessel's movement and heading.



### Fully sealed for life

Each Hella marine LED lamp is a completely sealed opto-electronic device. Proven design, precision engineering, and the use of high impact acrylic materials ensures superior resistance to water, impact, UV and general wear and tear.



### Superior Lens and Optic Materials

All Hella marine LED Navigation lamps feature extra thick lenses - providing a long term lighting solution and environmentally friendly choice.

Taking ultra durable LED Navigation lighting to a new level, Hella marine specifies Grilamid, a high performance polyamide manufactured in Switzerland, as a standard or optional lens choice.

Grilamid is a revolutionary transparent plastic with an exceptionally high impact strength and resistance to UV and chemical damage.



### Pre-wired with marine cable

Hella marine LED lamps are pre-wired with quality marine specification tinned cable. The cable is completely sealed to the lamp body providing time saving at installation and reliable electrical connection.



### Multivolt technology for durability and safety

Advanced Multivolt circuitry provides a uniform level of intensity for reliable and safe illumination across a range of DC inputs such as 9-33 volts.

Multivolt LED lamps can be connected to 12 or 24 volt systems without modification, providing full light performance and automatic compensation for low battery voltages and voltage drop over long cables and connections. Multivolt LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.



### Electromagnetic Compatibility (EMC)

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards. This protects the radio, communication, navigation and other electrical equipment onboard from possible interference with our products. Where applicable, Hella marine products carry CE marking for European Union legislation, and the C-Tick mark for Australian & New Zealand requirements.



C-Tick



RCM

C-Tick is the Australian & New Zealand EMC compliance mark administered by the Australian Communications and Media Authority (ACMA) & Radio Spectrum Management (RSM) New Zealand, and will be transitioning to the RCM mark by 1st March, 2016. Hella marine products will remain compliant to these requirements throughout the transition period and beyond.





**LED Tri Colour with Anchor navigation lamp.**  
**Advanced materials and state of the art technology**  
**for reliability, efficiency and Safety at Sea**



**LED Windex Lamps**

Power saving and durable lamps to illuminate reflectors of wind direction indicators.



Voltage	Light Colour	Part Number
8-28V	Red	2XT 959 630-351
10-33V	White	2XT 959 630-451



**Windex Adaptor Nut**

Machined 316 stainless steel adaptor nut to install a Windex directly onto the LED Tri Colour mounting shaft.

M12 (Mounting Shaft) to 5/16UNC.  
 Female to female.

**Part Number**  
 9NM 958 988-402



Packaging for aftermarket presentation

**Ultra low current draw. Power saving on board**

Port, Starboard and Stern functions draw less than 3.5W combined. The Anchor lamp draws less than 1.5W for substantial power saving compared to the 25W consumed by incandescent Tri Colour lamps.

**Fully sealed for life. IP 67 Certified**

Completely sealed, impervious to saltwater and contaminants.

**Safe and highly visible**

Hella marine lens and optics technology ensures ultra precise horizontal and vertical cut-off angles, clearly indicating a vessel's movement and heading.

**Ultra durable materials. Ultra long service life**

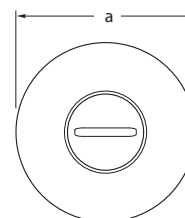
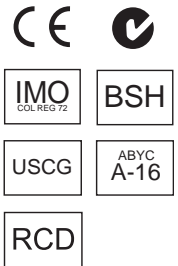
Advanced heavy duty Grilamid lens and housing, plus proven Hella marine LED technology combines to provide outstanding resistance to vibration, impact and shock loads. Relentless test programs have helped lift product reliability to new standards for ongoing performance and safety in the most demanding conditions.

**Unique installation and removal system**

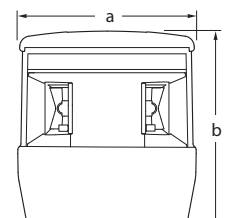
The NaviLED Trio installs on a unique 316 stainless steel mounting shaft for a secure attachment and reliable electrical connections.



<b>Housing Material</b>	UV resistant, high impact nylon
<b>Lens Material</b>	UV resistant, ultra heavy duty Grilamid
<b>Mounting Shaft</b>	316 stainless steel
<b>Minimum Visible Distance</b>	2 Nautical Mile (Yacht)
<b>Cable</b>	Pre-wired with 400mm of triple core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Voltage Protection</b>	Spike protected to +500 volts Reverse polarity protected to -700 volts
<b>Power Consumption</b>	Port, Starboard and Stern - Less than 3.5W combined All Round White / Anchor - Less than 1.5W
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Weight</b>	400g (including cable)
<b>Approvals</b>	BSH, IMO COLREG, USCG, ABYC, RCD



Top Profile



Side Profile

**Dimensions**  
 a = 85mm / 3.35"  
 b = 95mm / 3.74"

**LED Multivolt LED Tri Colour with Anchor Lamp**

Visibility	Part Number
2 NM	2LT 980 650-001



Ultra durable LED navigation lamps for enhanced safety.  
Proven worldwide on commercial and recreational vessels



**Ultra low current draw**

NaviLED PRO lamps use less than 10% of the power required to run a bulb navigation lamp. Port, Starboard and Stern lamps consume less than 3.2 watts combined.

**No maintenance. Ultra long service life**

Hella marine LED technology has no filaments to break making NaviLED PRO lamps extremely shock and vibration proof for proven reliability and safety in demanding conditions.

**Multivolt 9-33V DC**

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

**Safe and highly visible**

Hella marine optics deliver 100% correct light output and enhance visibility compared to bulb navigation lamps. Wheelmark/MED versions incorporate self diagnostic technology for long term reliability and safety.

**Fully sealed for life. IP 67 certified**

Each NaviLED PRO lamp is a completely sealed unit. High impact housings ensure durability from waves and impact. Ultra heavy duty BSH versions use high-tech Grilamid lens to offer superior strength in extreme conditions.

**Pre-wired with 2.5m of twin core marine cable**

High quality cable assemblies for time saving, completely sealed installations.

**Internationally certified**

Meets the requirements of COLREG, USCG, ABYC A-16, RINA, BSH, RCD, Wheelmark.



Sealed light engine clips into mounting shroud for an ultra secure attachment.

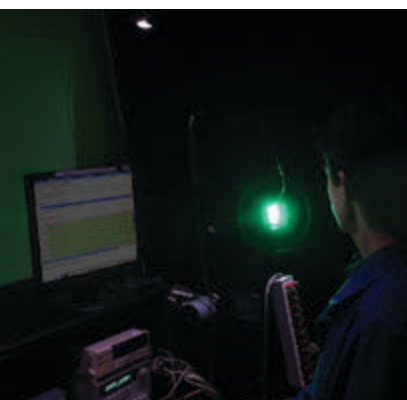


Rear of lamp without shroud. Pre-wired with twin core marine cable

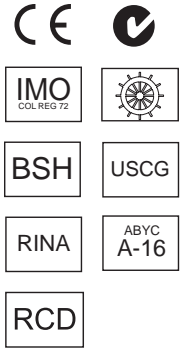
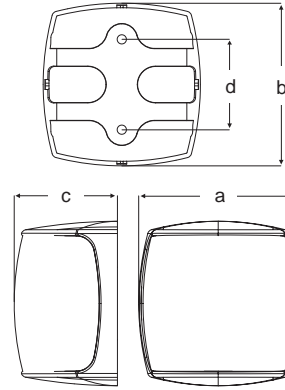
**NaviLED PRO Photometric Testing**

NaviLED PRO series lamps have ultra precise horizontal and vertical cut-off angles to clearly indicate a vessel's movement and heading.

Every individual NaviLED PRO lamp is photometrically verified in production by a sophisticated goniometer to ensure compliance with the intensity and cut-off requirements of international navigation lamp standards. After passing photometric testing, a unique serial number is laser engraved onto the lens. This serial number is referenced to individual test reports which are electronically archived by Hella marine, ensuring international navigation lamp standards are consistently met.



<b>Material Description</b>	Hi impact acrylic lens or Ultra heavy duty Grilamid lens (MED versions only)
<b>Minimum Visible Distance</b>	2 Nautical Mile (Yachts and Powerboats) 3 Nautical Mile (Powerboats only)
<b>Cable</b>	Pre-wired with 2.5m of twin core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Voltage Protection</b>	Spike protected to +500 volts Reverse polarity protected to -700 volts
<b>Power Consumption</b>	Port, Starboard and Stern - Less than 3.2W combined. Masthead - Less than 2.5W
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Weight</b>	150g (including cable)
<b>Approvals</b>	Wheelmark, IMO COLREG, USCG, ABYC A-16 RINA, BSH, RCD



**Dimensions**  
a = 87mm / 3.43"  
b = 90mm / 3.54"  
c = 57mm / 2.25"  
d = 50mm / 1.97"

**IMO COLREG and Wheelmark Certified Lamps.**



NaviLED PRO Wheelmark lamps are type approved and certified according to the Marine Equipment Directive 96/98/EC for inland waterways and the open sea in Europe. A Grilamid lens is standard for superior strength in extreme conditions. Each single-function NaviLED PRO Wheelmark lamp is equipped with a sophisticated self diagnostic control. Port and Starboard Grilamid lens versions appear clear when the lamps are OFF.



**High Impact Lens for Powerboats and Yachts**

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 959 900-501	2LT 959 900-511
Starboard	2 NM	2LT 959 908-501	2LT 959 908-511
Stern	2 NM	2LT 959 909-501	2LT 959 909-511



**Ultra Heavy Duty Lens for Powerboats and Yachts**



Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 959 900-601	2LT 959 900-611
Starboard	2 NM	2LT 959 908-601	2LT 959 908-611
Stern	2 NM	2LT 959 909-601	2LT 959 909-611
Bi-Colour	2 NM	2LT 959 941-001	2LT 959 941-011
Masthead*	3 NM	2LT 959 940-601	2LT 959 940-611
Masthead*	5 NM	2LT 959 940-401	2LT 959 940-411

\* for Powerboats and Sailing Yachts under motor



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**IMO COLREG, USCG, RINA, ABYC A-16 and RCD Certified Lamps.**



**2 Nautical Mile Powerboat and Yacht Lamps**

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 959 900-001	2LT 959 900-011
Starboard	2 NM	2LT 959 908-001	2LT 959 908-011
Stern	2 NM	2LT 959 909-001	2LT 959 909-011

\*\* for Powerboats and Sailing Yachts under motor



**3 Nautical Mile Powerboat Lamps**

Lamp Type	Visibility	Black Shroud	White Shroud
Port	3 NM	2LT 959 900-201	2LT 959 900-211
Starboard	3 NM	2LT 959 908-201	2LT 959 908-211
Stern	3 NM	2LT 959 909-201	2LT 959 909-211
Masthead**	3 NM	2LT 959 940-201	2LT 959 940-211





LED efficiency and precision optics for reliable and highly visible all round lighting



**With less than 1.5W of power consumption, NaviLED 360 lamps draw a fraction of the energy required to run a conventional 2 nautical mile incandescent lamp.**

**No maintenance. Ultra long service life**  
Hella marine LED technology has no filaments to break making NaviLED lamps extremely shock and vibration proof for reliability and safety in demanding conditions.

**Multivolt 9-33V DC**  
Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages. Sealed within the base or aluminium pole, the Multivolt drive circuitry provides reverse polarity, spike and over-voltage protection for long life and reliable operation.

**Safe and highly visible**  
Hella marine optics deliver 100% correct light output and enhance visibility compared to bulb navigation lamps.

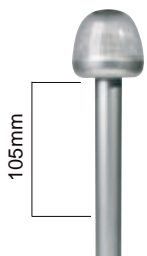
**Fully sealed for life. IP 67 Certified**  
Each NaviLED lamp is a completely sealed unit, highly UV and corrosion resistant.

**Pre-wired with marine cable**  
Quality twin core marine cable assemblies are used on all lamps ensuring time saving, completely sealed installations.

**Internationally certified**  
Meets the requirements of COLREG, BSH, USCG, ABYC A-16, RINA, RCD



**Note -**  
The electronics to drive and protect a NaviLED 360 pole lamp are contained on a circuit board inside the aluminium tube that is sealed by heavy duty heat shrink insulation. This circuit board assembly measures 105mm from the bottom of the lamp's aluminium base.



<b>Material Description</b>	UV resistant, enhanced impact acrylic lens Anodized aluminium lamp base and pole
<b>Minimum Visible Distance</b>	2 Nautical Mile
<b>Cable</b>	Pre-wired with twin core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Voltage Protection</b>	Spike protected to +500 volts Reverse polarity protected to -500 volts < 1.5W
<b>Power Consumption</b>	
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Weight</b>	Surface Mount - 150g (including cable) 12" / 305mm Fold down pole mount - 300g (including cable)
<b>Approvals</b>	IMO COLREG, USCG, RINA, ABYC A-16, BSH, RCD



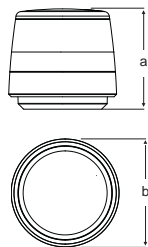
**NaviLED 360 Surface Mount Accessory Kit.**  
For applications where access to the cable connection is required, or applications requiring frequent lamp installation and removal.

Kit includes -  
1 x Base, 1 x Cable clamp, 1 x Connector block

**Black Base**                      **White Base**  
8HG 980 917-101                  8HG 980 917-111



**COLREG and Wheelmark Certified Lamps.**



**LED Multivolt**  
**Dimensions**  
 a = 56mm / 2.20"  
 b = 60mm / 2.36"

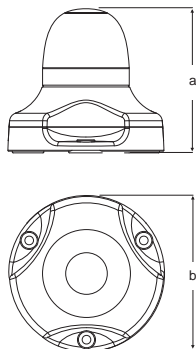
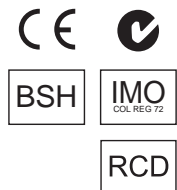


**2 Nautical Mile Anchor Lamps with compact surface mount base**

Light Colour	Visibility	Black Base	White Base
White	2 NM	2LT 980 960-001	2LT 980 960-011

Ultra compact and robust surface mount design with no visible fastenings once installed.

**COLREG and BSH Certified Lamps.**



**LED Multivolt**  
**Dimensions**  
 a = 83mm / 3.27"  
 b = 90mm / 3.54"

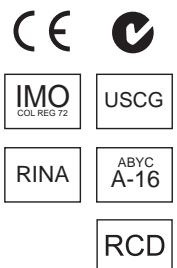


**2 Nautical Mile All Round Lamps with surface mount base**

Light Colour	Visibility	Black Base	White Base
White	2 NM	2LT 980 910-101	2LT 980 910-111
Red	2 NM	2LT 980 910-501	2LT 980 910-511
Green	2 NM	2LT 980 910-301	2LT 980 910-311

Robust surface mount with three mounting holes.

**COLREG, USCG, RCD and ABYC A-16 Certified Lamps.**

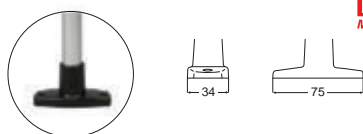


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**2 Nautical Mile All Round Lamps with surface mount base**

Light Colour	Visibility	Black Base	White Base
White	2 NM	2LT 980 910-001	2LT 980 910-011
Red	2 NM	2LT 980 910-401	2LT 980 910-411
Green	2 NM	2LT 980 910-201	2LT 980 910-211

Robust surface mount with three mounting holes.



**2 Nautical Mile Anchor Lamps with fixed pole mount**

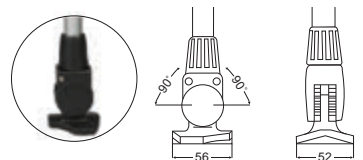
Overall Length	Visibility	Black Base	White Base
8" / 204mm	2 NM	2LT 959 910-011	2LT 959 910-111

Robust fixed pole mount with two counter-sunk holes.



2LT 959 910-011

**2 Nautical Mile Anchor Lamps with fold down pole mount**



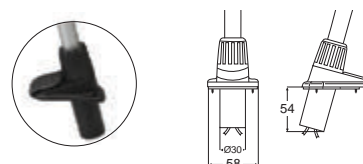
Overall Length	Visibility	Black Base	White Base
12" / 305mm	2 NM	2LT 959 910-621	2LT 959 910-721
20" / 500mm	2 NM	2LT 959 910-661	2LT 959 910-761
24" / 610mm	2 NM	2LT 959 910-631	2LT 959 910-731
34" / 850mm	2 NM	2LT 959 910-651	2LT 959 910-751

Lamp pole can be adjusted through 180 degrees and secured with locking collar. Removable wedge for different surface cambers.



2LT 959 910-621

**2 Nautical Mile Anchor Lamps with plug-in pole mount**



Overall Length	Visibility	Black Base	White Base
24" / 610mm	2 NM	2LT 959 910-431	2LT 959 910-531
42" / 1070mm	2 NM	2LT 959 910-451	2LT 959 910-551

Pole plugs into lamp base and is fixed into position with locking collar. Rubber cap covers hole when pole is removed.



2LT 959 910-431



Compact LED navigation lamps.  
Attractive, power saving and proven reliability



Designed and manufactured in New Zealand,  
NaviLED lamps save power onboard and provide  
outstanding durability.



**Ultra low current draw**

NaviLED lamps use less than 10% of the power required to run a bulb navigation lamp of the same visible distance.

**No bulbs, No maintenance. Ultra long service life**

Hella marine LED technology has no filaments to break making NaviLED lamps extremely shock and vibration proof for reliability and safety in demanding conditions.

**Multivolt DC**

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

**Fully sealed for life. IP 67 Certified**

Each NaviLED lamp is a completely sealed unit. High impact housings ensure durability from waves and impact.

**Pre-wired with marine cable**

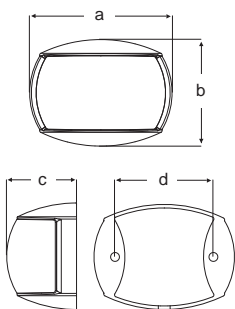
Single core (120mm) or twin core (2.5m) sheathed marine cable assemblies available. Ensures time saving, completely sealed installations.



Sealed light engine clips into mounting shroud for an ultra secure attachment.



Rear of lamp clipped into shroud. Single core marine cable.



**Dimensions**  
a = 71mm / 2.80"  
b = 53mm / 2.09"  
c = 33mm / 1.30"  
d = 50 mm / 1.97"

<b>Material Description</b>	UV resistant, enhanced impact resistant acrylic lens High impact shroud
<b>Minimum Visible Distance</b>	2 Nautical Mile (Yachts and Powerboats)
<b>Cable</b>	Pre-wired with marine cable
<b>Operating Voltage</b>	Port, Starboard and Stern Lamps Multivolt 9-33V DC Towing Lamps Multivolt 8-28V DC
<b>Voltage Protection</b>	Spike protected to +500 volts Reverse polarity protected to -700 volts
<b>Power Consumption</b>	Port and Starboard less than 2W combined Stern less than 2W, Towing less than 2W
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Weight</b>	60g (including 120mm single core cable)
<b>Approvals</b>	IMO COLREG, USCG, RINA, ABYC A-16, BSH, RCD





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## BSH Certified Lamps

### Single Lamps (with 120mm of single core marine cable)

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

**BSH**

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 980 520-061	2LT 980 520-071
Starboard	2 NM	2LT 980 520-261	2LT 980 520-271
Stern*	2 NM	2LT 980 520-501	2LT 980 520-511

### Single Lamps (with 2.5m of twin core marine cable)

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

**BSH**

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 980 520-081	2LT 980 520-091
Starboard	2 NM	2LT 980 520-281	2LT 980 520-291
Stern*	2 NM	2LT 980 520-531	2LT 980 520-541

\*Stern lamp has a clear lens

### Twin Pack Lamps -

#### Port and Starboard (with 120mm of single core marine cable)

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

**BSH**

Lamp Type	Visibility	Black Shroud	White Shroud
Port & Starboard	2 NM	2LT 980 520-861	2LT 980 520-871



## COLREG, USCG, RINA, ABYC A-16 Certified Lamps

### Single Lamps (with 120mm of single core marine cable)

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 980 520-001	2LT 980 520-011
Starboard	2 NM	2LT 980 520-201	2LT 980 520-211
Towing	2 NM	2LT 980 520-601	2LT 980 520-611

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 980 520-101	2LT 980 520-111
Starboard	2 NM	2LT 980 520-301	2LT 980 520-311
Stern	2 NM	2LT 980 520-501	2LT 980 520-511

### Single Lamps (with 2.5m of single core marine cable)

**LED**  
Multivolt

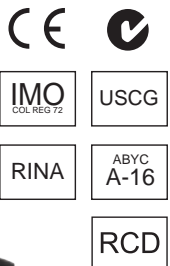
#### 2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 980 520-031	2LT 980 520-041
Starboard	2 NM	2LT 980 520-231	2LT 980 520-241

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 980 520-131	2LT 980 520-161
Starboard	2 NM	2LT 980 520-331	2LT 980 520-361
Stern	2 NM	2LT 980 520-531	2LT 980 520-541



### Twin Pack Lamps -

#### Port and Starboard (with 120mm of single core marine cable)

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

Lamp Type	Visibility	Black Shroud	White Shroud
Port & Starboard	2 NM	2LT 980 520-801	2LT 980 520-811

**LED**  
Multivolt

#### 2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens

Lamp Type	Visibility	Black Shroud	White Shroud
Port & Starboard	2 NM	2LT 980 520-901	2LT 980 520-911



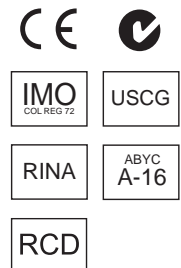


Compact deck mount LED navigation lamps.  
Attractive, power saving and proven reliability

Deck Mount

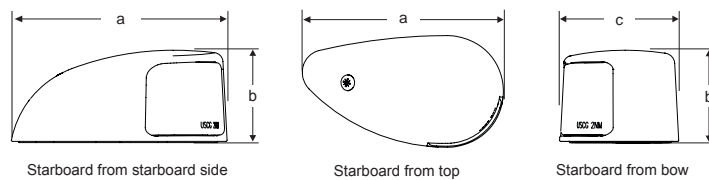


<b>Material Description</b>	UV resistant, enhanced impact resistant acrylic lens High impact shroud
<b>Minimum Visible Distance</b>	2 Nautical Mile (Yachts and Powerboats)
<b>Cable</b>	Pre-wired with 500mm of twin core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Voltage Protection</b>	Spike protected to +500 volts Reverse polarity protected to -700 volts
<b>Power Consumption</b>	Port and Starboard less than 2W combined
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Weight</b>	75g (including cable)
<b>Approvals</b>	IMO COLREG, USCG, RINA, ABYC A-16, RCD



**Dimensions:**

a = 90.0mm / 3.54"  
b = 38.5mm / 1.52"  
c = 50.0mm / 1.97"



**Twin Pack Lamps - Port and Starboard**



<b>LED Multivolt</b>	<b>2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens</b>			
	<b>Lamp Type</b>	<b>Visibility</b>	<b>Black Shroud</b>	<b>White Shroud</b>
	Port & Starboard	2 NM	2LT 980 620-801	2LT 980 620-811



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<b>LED Multivolt</b>	<b>2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens</b>			
	<b>Lamp Type</b>	<b>Visibility</b>	<b>Black Shroud</b>	<b>White Shroud</b>
	Port & Starboard	2 NM	2LT 980 620-901	2LT 980 620-911





*Bulb Navigation Lamps*

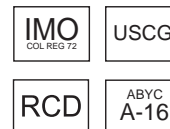
**Hella marine**   
*Vision and Innovation*



## 2492 and 5002 Series All Round White / Anchor Lamps

Anchor lamps in a wide range of pole lengths and base types.  
Featuring heavy duty anodized aluminium poles and impact resistant bases.

<b>Material Description</b>	UV and impact resistant plastic housing and lens. Anodized aluminium poles
<b>Minimum Visible Distance</b>	2 Nautical Mile
<b>Bulb</b>	12V/10W Ba15s or 12V/10W SV8.5 included
<b>Installation</b>	Horizontal surface mount. Includes stainless steel screws
<b>Degree of Protection</b>	IP X6
<b>Approvals</b>	IMO COLREG, USCG, ABYC A-16, RCD



2LT 002 492-201



2LT 995 002-131



2LT 995 002-151



2LT 995 002-031

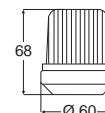


2LT 995 002-171

### 2 Nautical Mile All Round White / Anchor lamps with fixed mount

<b>Voltage</b>	<b>Black Housing</b>	<b>White Housing</b>
12V	2LT 002 492-201	2LT 002 492-211

Robust fixed mount with concealed fastenings.



### 2 Nautical Mile All Round White / Anchor lamps with plug-in pole mount

<b>Voltage</b>	<b>Overall Length</b>	<b>Black Housing</b>	<b>White Housing</b>
12V	38" / 965mm	2LT 002 492-221	2LT 002 492-241

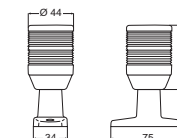
Pole plugs into lamp base and is fixed into position with locking collar.



### 2 Nautical Mile All Round White / Anchor lamps with fixed mount

<b>Voltage</b>	<b>Overall Height</b>	<b>Black Base</b>	<b>White Base</b>
12V	4" / 102mm	2LT 995 002-001	2LT 995 002-131
12V	8" / 204mm	2LT 995 002-011	2LT 995 002-141

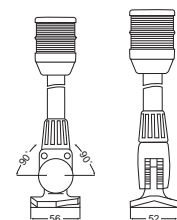
Robust fixed mount with two counter-sunk holes.



### 2 Nautical Mile All Round White / Anchor lamps with fold down pole mount

<b>Voltage</b>	<b>Overall Length</b>	<b>Black Base</b>	<b>White Base</b>
12V	8" / 204mm	2LT 995 002-021	2LT 995 002-151
12V	12" / 305mm	2LT 995 002-051	2LT 995 002-181
12V	20" / 508mm	2LT 995 002-031	2LT 995 002-161
12V	24" / 610mm	2LT 995 002-321	2LT 995 002-121

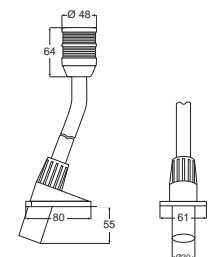
Lamp pole can be adjusted through 180 degrees and secured at desired angle with locking collar.



### 2 Nautical Mile All Round White / Anchor lamps with plug-in pole mount

<b>Voltage</b>	<b>Overall Length</b>	<b>Black Base</b>	<b>White Base</b>
12V	24" / 610mm	2LT 995 002-041	2LT 995 002-171
12V	36" / 914mm	2LT 995 002-061	2LT 995 002-191
12V	42" / 1066mm	2LT 995 002-071	2LT 995 002-201
12V	48" / 1220mm	2LT 995 002-081	2LT 995 002-211
12V	54" / 1350mm	2LT 995 002-091	2LT 995 002-221

Pole plugs into lamp base and is fixed into position with locking collar.  
Rubber cap covers hole when pole is removed.



### 2492 Series Spare Parts

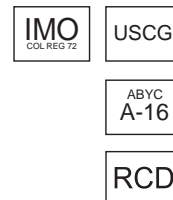
<b>Lamp housing clear</b> 9EL 111 681-001	<b>Seal</b> 9GD 111 684-001	<b>12V / 10W Bulb</b> 8GA 002 071-131	<b>Plug-in base black</b> 8HG 992 157-021	<b>Plug-in base white</b> 8HG 992 157-031
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### 5002 Series Spare Parts

<b>Lamp housing black.</b> 9EL 990 157-001	<b>Rubber cap black.</b> To suit Plug-in base 9GH 992 157-041	<b>Plug-in base black</b> 8HG 992 157-021	<b>Fold down base black</b> 8HG 992 158-001	<b>12V / 10W Bulb</b> 8GM 993 406-001
<b>Lamp housing white.</b> 9EL 990 157-011	<b>Rubber cap white.</b> To suit Plug-in base 9GH 992 157-051	<b>Plug-in base white</b> 8HG 992 157-031	<b>Fold down base white</b> 8HG 992 158-011	



Compact and proven navigation lamps for yachts and powerboats. Saltwater resistant and Non-magnetic, 3562 series lamps feature a 'snap lock' housing allowing bulbs to be changed without tools.



<b>Material Description</b>	UV and impact resistant plastic housing and lens
<b>Minimum Visible Distance</b>	Masthead and Stern 2 Nautical Miles Port and Starboard 1 Nautical Mile
<b>Bulb</b>	12V / 10W SV8.5 included
<b>Installation</b>	Vertical surface mount. Mounting base available
<b>Cable Entry</b>	Through base plate with rubber grommet
<b>Degree of Protection</b>	IP 54
<b>Approvals</b>	IMO COLREG, USCG, ABYC A-16, RCD



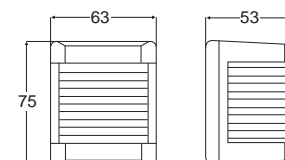
Packaging for aftermarket presentation

**1 Nautical Mile Powerboat and Yacht Lamps**

Lamp Type	Voltage	Black Housing	White Housing
Port	12V	2LT 003 562-035	2LT 003 562-135
Starboard	12V	2LT 003 562-025	2LT 003 562-125
Bi-Colour	12V	2LT 003 562-045	2LT 003 562-145

**2 Nautical Mile Powerboat and Yacht Lamps**

Lamp Type	Voltage	Black Housing	White Housing
Stern	12V	2LT 003 562-015	2LT 003 562-115

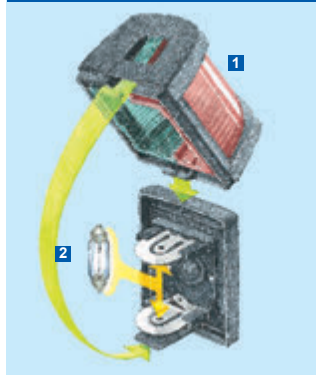


**2 Nautical Mile Powerboat Lamps**

Lamp Type	Voltage	Black Housing	White Housing
Masthead**	12V	2LT 003 562-005	2LT 003 562-105

\*\* for Powerboats and Sailing Yachts under Motor

**3562 Series Spare Parts**



**1 Lamp housing black**

Port	9EL 122 562-031
Starboard	9EL 122 562-021
Stern	9EL 122 562-011
Masthead	9EL 122 562-001
Bi-colour	9EL 123 669-001

**1 Lamp housing white**

Port	9EL 122 562-111
Starboard	9EL 122 562-101
Stern	9EL 122 562-091
Masthead	9EL 122 562-081
Bi-colour	9EL 123 669-011

**2 12V Bulb**

8GM 002 091-131



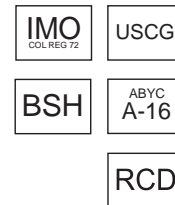
**Mounting Base**

For horizontal surfaces.

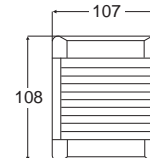
Black	8HG 005 799-001
White	8HG 005 799-011

## 2984 Series Position Lamps

Internationally approved navigation lamps. Non-magnetic and saltwater resistant. Housing 'snaps' to base without screws.  
2984 series navigation lamps feature a vertically hanging bulb and contacts in the upper area of each lamp to prevent corrosion.



<b>Material Description</b>	UV and impact resistant plastic housing and lens
<b>Minimum Visible Distance</b>	Port and Starboard 2 NM, Stern 2 NM, Masthead 3 NM
<b>Bulb</b>	12V / 25W BAY15d included
<b>Installation</b>	Vertical surface mount
<b>Cable Entry</b>	Through base plate with rubber grommet
<b>Degree of Protection</b>	IP 55
<b>Approvals</b>	IMO COLREG, BSH, USCG, ABYC A-16, RINA, RCD



Packaging for aftermarket presentation

### 2 Nautical Mile Powerboat and Yacht Lamps

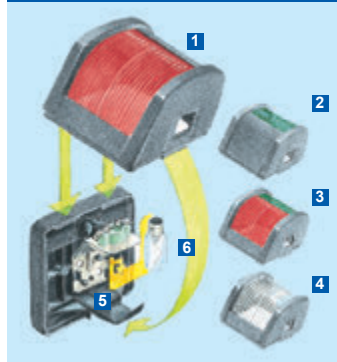
Lamp Type	Voltage	Black Housing	White Housing
Port	12V	2LT 002 984-335	2LT 002 984-385
Starboard	12V	2LT 002 984-345	2LT 002 984-395
Bi-Colour	12V	2LT 002 984-315	2LT 002 984-365
Stern	12V	2LT 002 984-325	2LT 002 984-375

### 3 Nautical Mile Powerboat Lamps

Lamp Type	Voltage	Black Housing	White Housing
Masthead**	12V	2LT 002 984-305	2LT 002 984-355

\*\* for Powerboats and Sailing Yachts under Motor

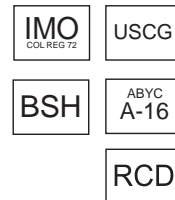
### 2984 Series Spare Parts



<b>1 Lamp housing black</b> Port 9EL 127 083-031	<b>3 Lamp housing black</b> Bi-Colour 9EL 127 083-041	<b>5 Bulb holder</b> 9FT 126 931-001
<b>2 Lamp housing white</b> Port 9EL 127 083-101	<b>Lamp housing white</b> Bi-Colour 9EL 127 083-111	<b>6 Bulbs</b> <b>12V / 25W</b> 8GA 003 488-301
<b>2 Lamp housing black</b> Starboard 9EL 127 083-021	<b>4 Lamp housing black</b> Masthead 9EL 127 083-001 Stern 9EL 127 083-011	<b>24V / 25W</b> 8GA 003 488-311
<b>Lamp housing white</b> Starboard 9EL 127 083-091	<b>Lamp housing white</b> Masthead 9EL 127 083-071 Stern 9EL 127 083-081	



Tri Colour lamps, and Tri Colour lamps with an integrated All Round White / Anchor Lamp for attachment to yacht masts. Non-magnetic and saltwater resistant. The lamp housing features a bayonet lock for easy bulb change.



**Material Description**

**Minimum Visible Distance**

**Bulb**

**Installation**

**Cable Entry**

**Degree of Protection**

**Approvals**

UV and impact resistant plastic housing and lens

Port and Starboard 2 NM, Stern 2 NM,

All Round White / Anchor 2 NM

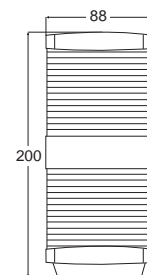
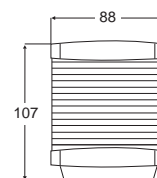
12V BAY15d included

Horizontal surface mount

Through base plate with rubber grommet

IP 55

IMO COLREG, BSH, USCG, ABYC A-16, RINA, RCD



Packaging for aftermarket presentation

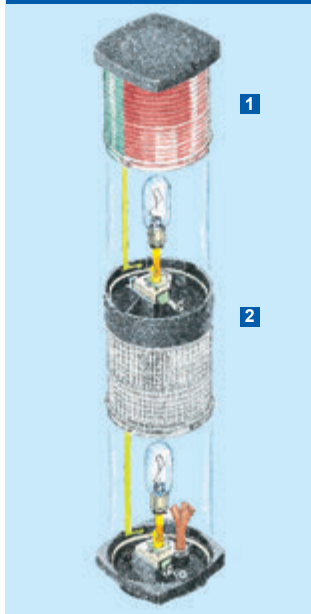
**2 Nautical Mile Tri-Colour Lamp**

Lamp Type	Voltage	Black Housing
Tri-Colour	12V	2LT 002 984-535

**2 Nautical Mile Tri-Colour Lamp with All Round White**

Lamp Type	Voltage	Black Housing
Tri-Colour / Anchor Lamp	12V	2LT 002 984-601

**2984 Series Spare Parts**



**Lamp housing black**

<b>1</b> (Tri-Colour lamp only)	9HD 123 744-031
<b>2</b> Tri-Colour with Anchor lamp	9HD 123 744-041
Tri-Colour with Anchor lamp	9XS 123 742-001

**Bulb 12V**

Tri-Colour lamp	8GA 003 488-301
Tri-Colour with Anchor lamp	8GA 003 488-301
	8GA 003 488-121

**Bulb 24V**

Tri-Colour lamp	8GA 003 488-311
Tri-Colour with Anchor lamp	8GA 003 488-311
	8GA 003 488-131

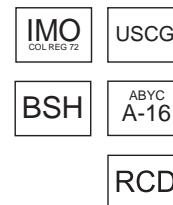
**Seal**

Tri-Colour lamp	9GD 109 701-221
Tri-Colour with Anchor lamp	9GD 109 701-221

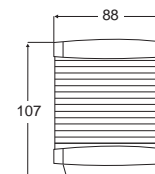
2984 Series All Round Lamps



BSH approved, saltwater resistant and non-magnetic, they feature a bayonet lock on the lamp housing for easy bulb change.



<b>Material Description</b>	UV and impact resistant plastic housing and lens
<b>Minimum Visible Distance</b>	2 Nautical Mile
<b>Bulb</b>	12V BAY15d included
<b>Installation</b>	Horizontal surface mount
<b>Cable Entry</b>	Through base plate with rubber grommet
<b>Degree of Protection</b>	IP 55
<b>Approvals</b>	IMO COLREG, BSH, USCG, ABYC A-16, RINA, RCD



Packaging for aftermarket presentation

**2 Nautical Mile All Round White / Anchor Lamps**

Lamp Type	Voltage	Black Housing	White Housing
All Round White / Anchor	12V	2LT 002 984-505	2LT 002 984-565

**2 Nautical Mile All Round Red Lamps**

Lamp Type	Voltage	Black Housing
All Round Red	12V	2LT 002 984-525

**2 Nautical Mile All Round Green Lamps**

Lamp Type	Voltage	Black Housing
All Round Green	12V	2LT 002 984-515

**2984 Series Spare Parts**

**Lamp housing / lens black**

All Round White / Anchor	9HD 123 744-001
All Round Red	9HD 123 744-021
All Round Green	9XS 123 742-011

**Lamp housing / lens white**

All Round White / Anchor	9HD 123 744-071
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**Bulb 12V**

All Round White / Anchor	8GA 003 488-301
All Round Red	8GA 003 488-301
All Round Green	8GA 003 488-301

**Seal**

All lamp housings	9GD 109 701-221
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**Bulb 24V**

All Round White / Anchor	8GA 003 488-131
All Round Red	8GA 003 488-311
All Round Green	8GA 003 488-311

**Cap**

All lamp housings	9HD 132 905-001
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*LED Floodlights*

**Hella marine**   
*Vision and Innovation*





## *The Hella marine Advantage*

### *'Fit and Forget' LED Reliability.*

**Hella marine LED floodlights provide efficient, power saving and ultra durable illumination for reliability and safety at sea.**

#### **Low Power Consumption.**

Combining efficient LED light sources with advanced optic technology, Hella marine LED products deliver more light output per watt than traditional bulb lamps and provide considerable energy savings.

As an example, Hella marine LED Module 70 lamps consume less than 30% of the power required to run a 55W H3 incandescent bulb floodlight (e.g. Hella marine 7118 series)

#### **No bulbs, No maintenance. Long service life.**

Hella marine LED technology has no filaments to break, making the lamps extremely shock and vibration resistant for reliable illumination and safety.

#### **Low heat signature for improved safety.**

All Hella marine LED lamps featuring a low heat signature due to their low power consumption. This provides many safety and installation advantages as the risks of heat damage caused by traditional halogen lamps are eliminated.

#### **System Lumens Performance (SLP) versus Raw LED Lumens.**

Rather than referencing Raw LED Lumens, Hella marine specifies the System Lumen Performance of the complete Lamp- or Luminaire system.

System Lumens state the actual light performance at standard operating voltage and factors in losses physically inherent in the optical system and well as the efficiency of the electronic LED drive circuit.

By stating the System Lumen Performance, Hella marine proudly communicates the true performance expected from each lamp\*.

\*small, but to the human eye unnoticeable differences are common from lamp to lamp due to variances in the LED manufacturing yield.





*Hard working HypaLUME for the most demanding commercial applications.*

**Hella marine has been an international pioneer of high quality deck lighting since 1925.**



The future of efficient and durable deck lighting is LED based. Compared to traditional halogen lamps, the energy saving and improved reliability benefits on offer with quality LED technology are significant.

Hella marine LED Mega Beam lamps illuminate cockpit and deck areas with crisp white light consuming only 13W of power. This represents significant savings compared to the 55W consumed by 12V halogen floodlights.

These power savings are possible due to highly efficient LEDs and optics that provide considerably more light output per watt than halogen floodlights.

Lens and optic engineering play an important role to efficiently capture and spread the available light onto working surfaces without glare or eye strain.



**Advanced Sea Hawk Technology.**

Advances in the luminous efficiency of LEDs has opened doors to the development of a new and unique class of Hella marine LED floodlighting.

The Sea Hawk series offers durable, lightweight and efficient 'class leading' performance. Reliability and strength is enhanced by high performance Grilamid selected for the lens of all lamps.

The housings of Sea Hawk-R and XL lamps are injection moulded from 'Non-metal' thermally conductive polymer that is highly resistant to degradation, even under harsh UV.

Utilising thermal polymer eliminates the requirement for an external aluminium heat sink in this class of floodlight, removing potential surface deterioration and material corrosion risks associated with coated aluminium in the harsh marine environment.





## LED Floodlights



**Hella marine**

*'Fit and Forget' LED Reliability.*



**Five Year Warranty**

Hella marine LED Floodlights carry a Five Year Warranty providing peace of mind that the product will stand the test of time.



**Fully sealed for life**

Each Hella marine LED lamp is a completely sealed opto-electronic device. Proven design, precision engineering, and the use of ultra durable materials ensures superior resistance to water, impact, UV radiation and general wear and tear.



**Class Leading Efficiency**

Combining efficient LED sources with advanced optic technology, Hella marine LED products deliver more light output per watt than incandescent based lamps with significant energy savings.



**'Non-metal' Thermally Conductive Housing**

Sea Hawk-R and Sea Hawk-XL housings are injection moulded from a revolutionary thermally conductive polymer that is highly resistant to degradation, even under harsh UV.

This advanced material draws heat away from internal electronics for reliable long-term operation.

Utilising thermal polymer eliminates the requirement for a aluminium housing, removing potential surface deterioration and corrosion risks associated with coated metal in the harsh marine environment.



**Superior Lens Materials**

Many Hella marine LED floodlights utilise Grilamid , a high performance polyamide manufactured in Switzerland, as a heavy duty lens material.

Grilamid is a revolutionary new transparent plastic with an exceptionally high impact strength and resistance to UV and chemical damage.



**Multivolt technology for durability and safety**

Advanced Multivolt circuitry provides a uniform level of intensity for reliable and safe illumination across a range of DC inputs such as 9-33 volts.

Multivolt LED lamps can be connected to 12 or 24 volt systems without modification, providing full light performance and automatic compensation for low battery voltages and voltage drop over long cables and connections. Multivolt LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.



**Materials withstand harsh environments**

Advanced UV resistant polymers that will not yellow or become brittle even following years of exposure.



**Electromagnetic Compatibility (EMC)**

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards. This protects the radio, communication, navigation and other electrical equipment on board from possible interference with our products. Where applicable, Hella marine products carry CE marking for European Union legislation, and the C-Tick mark for Australian & New Zealand requirements.















C-Tick



RCM

C-Tick is the Australian & New Zealand EMC compliance mark administered by the Australian Communications and Media Authority (ACMA) & Radio Spectrum Management (RSM) New Zealand, and will be transitioning to the RCM mark by 1st March, 2016. Hella marine products will remain compliant to these requirements throughout the transition period and beyond.

# LED Floodlight Quick Reference Guide

	Series Name	Dimensions mm	Installation Type	System Lumen	Beam Angle	Peak Lux @ 3M	Peak Lux @ 6M	Power Consumption	Weight (including cable)	Page No.
	Sea Hawk Spread	136 x 53	Bracket	200	50° Spread	33 Lux	8 Lux	<3W 0.25A@12V	250g	35
	Sea Hawk Spot	136 x 53	Bracket	200	21° Spot	133 Lux	33 Lux	<3W 0.25A@12V	250g	35
	Sea Hawk Recess - Spread	176 x 50	Recess	200	50° Spread	33 Lux	8 Lux	<3W 0.25A@12V	125g	35
	Sea Hawk Recess - Spot	176 x 50	Recess	200	21° Spot	133 Lux	33 Lux	<3W 0.25A@12V	125g	35
	Sea Hawk-R Spread White Light	136 x 53	Bracket	550	50° Spread	80 Lux	20 Lux	7W 0.58A@12V	250g	37
	Sea Hawk-XL Spread White Light	170 x 68	Bracket	750	40° Spread	100 Lux	25 Lux	12W High 2W Low 1.0A@12V	500g	39
	Sea Hawk-XL Spot White Light	170 x 68	Bracket	750	16° Spot	479 Lux	119 Lux	12W High 2W Low 1.0A@12V	500g	39
	Module 70 Gen 3	83 x 110	Bracket	800	40° Spread	260 Lux	65 Lux	13W 1.08A@12V	500g	41
	Mega Beam Gen 3	110 x 145	Bracket	800	40° Spread	260 Lux	65 Lux	13W 1.08A@12V	750g	41
	Power Beam	112 x 129	Bracket	900	45° Spread	300 Lux	75 Lux	18W 1.5A@12V	720g	43
	AS 5000	160 x 170	Bracket	5000	44° Spread	760 Lux	190 Lux	60W 5A@12V	2.6 Kg	45
	HypaLUME	504 x 380	Bracket	20000	60° Spread	2240 Lux	560 Lux	240W 10A@24V	13.3 Kg	47



# LED Sea Hawk

**3W 200 Lumen**

A new class of ultra efficient, compact and lightweight LED lamps



Sea Hawk bracket mount versions contain friction mounts and can be easily adjusted up and down without tools.



Completely sealed and lightweight, Sea Hawk lamps offer compact and durable illumination.

### Class leading efficiency

Advanced optics deliver 200 lumens of highly effective crisp white light for an ultra low energy consumption of less than 3W, (<0.25A@12V).

### Fully sealed and salt water durable

Sea Hawk lamps are IP 67 and feature a high performance Grilamid lens for superior strength and resistance to impact and UV.

Tinned marine cable is pre-wired to each lamp for absolute water tightness and reliable electrical connections.

A polished 316 stainless steel bracket allows easy adjustment. Friction mounts hold the lamp steady without the need to adjust fastenings.

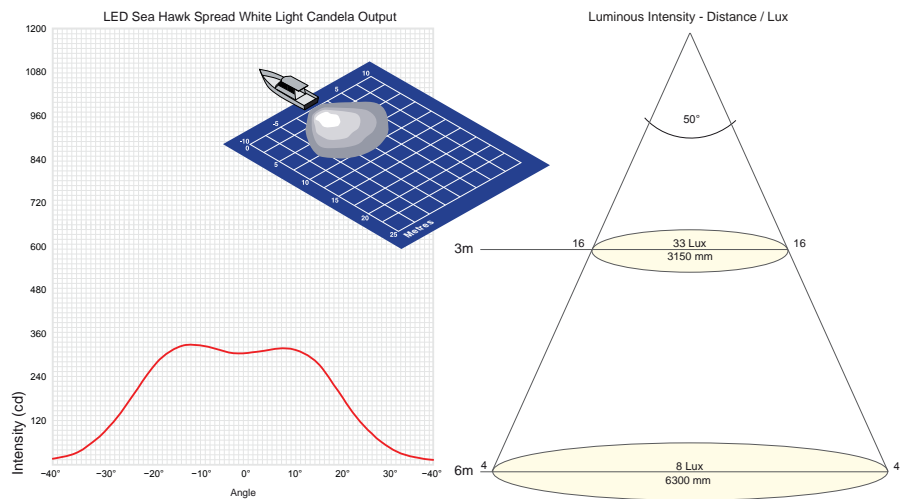
### Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

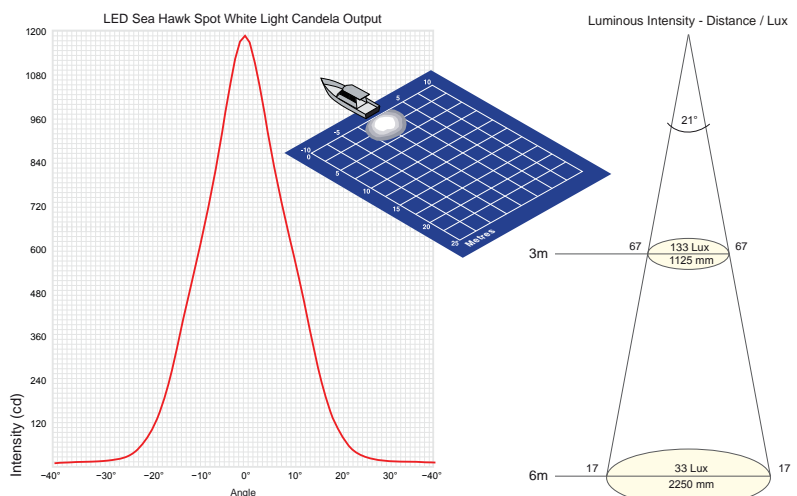
### Engineered light patterns

Precision optics provide two light pattern options. Spread lamps are suited for illuminating cockpits and transom areas with a close range, wide spread of light. Spot lamps offer a narrower and more concentrated light pattern for applications such as spreader lighting on yacht masts.

### Sea Hawk Candela and Lux performance. Spread.



### Sea Hawk Candela and Lux performance. Spot





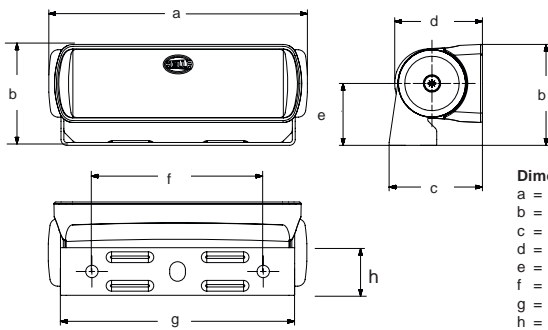


Packaging for aftermarket presentation

<b>Material Description</b>	UV and impact resistant plastic Heavy duty Grilamid lens
<b>Bracket</b>	Polished 316 stainless steel
<b>Colour Temperature</b>	5500K (White) 1600K (Red)
<b>Cable</b>	Pre-wired with 2.5m of twin core marine cable
<b>Operating Voltage</b>	White Lamps Multivolt 9-33V DC. Red Lamps 12V DC
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Power Consumption</b>	<3W ( <0.25A@12V / <0.13A@24V )
<b>Weight</b>	Bracket mount 250g (including cable) Recess mount 125g (including cable)
<b>Light Output</b>	White Lamps - 200 lumens
<b>Approvals</b>	CE, C-Tick, ISO 8846 (Ignition Protection)



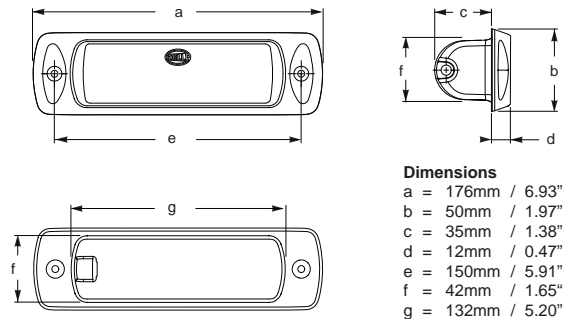
**Bracket Mount Dimensions**



**Dimensions**

a = 136mm / 5.35"
b = 53.0mm / 2.08"
c = 49.0mm / 1.93"
d = 46.0mm / 1.81"
e = 32.5mm / 1.28"
f = 90.0mm / 3.54"
g = 123mm / 4.84"
h = 25.0mm / 0.98"

**Recess Mount Dimensions**



**Dimensions**

a = 176mm / 6.93"
b = 50mm / 1.97"
c = 35mm / 1.38"
d = 12mm / 0.47"
e = 150mm / 5.91"
f = 42mm / 1.65"
g = 132mm / 5.20"

**Sea Hawk Bracket Mount**



**White Light LED Floodlights - Spread**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 670-301
9-33V DC	White Housing	2LT 980 670-311



**White Light LED Deck Lamps - Spot**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 670-201
9-33V DC	White Housing	2LT 980 670-211

**Red Light LED Floodlights - Spread**

Voltage	Housing Colour	Part Number
12V DC	Black Housing	2LT 980 670-341
12V DC	White Housing	2LT 980 670-351



**Sea Hawk Recess Mount**



**White Light LED Floodlights - Spread**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 747-101
9-33V DC	White Housing	2LT 980 747-111



**White Light LED Deck Lamps - Spot**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 747-001
9-33V DC	White Housing	2LT 980 747-011



**Red Sea Hawk lamps offer maximum night vision preservation.**

Ocean racers, professional sports fisherman and commercial operators recognise the 'non glare' night vision preserving advantages of red Sea Hawk lamps together with their energy saving and durability.



# LED Sea Hawk-R

**7W 550 Lumen**

Compact, high performance LED floodlights



**Future technology has been applied to the successful Sea Hawk series for class leading efficiency and guaranteed durability.**

### Hi-tech materials

Sea Hawk-R housings are 'Non-metal', injection moulded from a revolutionary thermally conductive polymer that is highly resistant to degradation, even under harsh UV.

This advanced material draws heat away from internal electronics for reliable long-term operation. Utilising thermal polymer eliminates the requirement for a aluminium housing in this class of floodlight, removing potential surface deterioration and material corrosion risks associated with coated metal in the harsh marine environment.

The lens is precision moulded from high performance Grilamid for strength and durability.

### Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

### Engineered light pattern

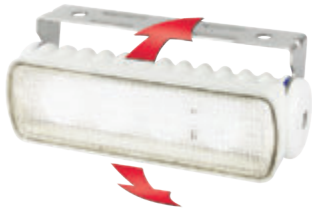
Sophisticated optics deliver a broad and even illumination without glare or harsh point sources. Specifically developed to illuminate a wide, close-range spread over a cockpit, foredeck or working area.

### Pre-wired with twin core marine cable

High quality sealed cable assemblies for time saving, completely sealed installations.

### Designed and manufactured in New Zealand

Sea Hawk lamps carry a 5 year warranty.



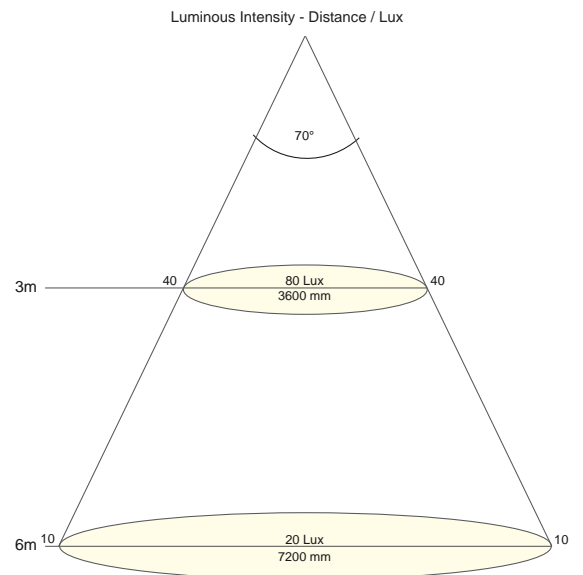
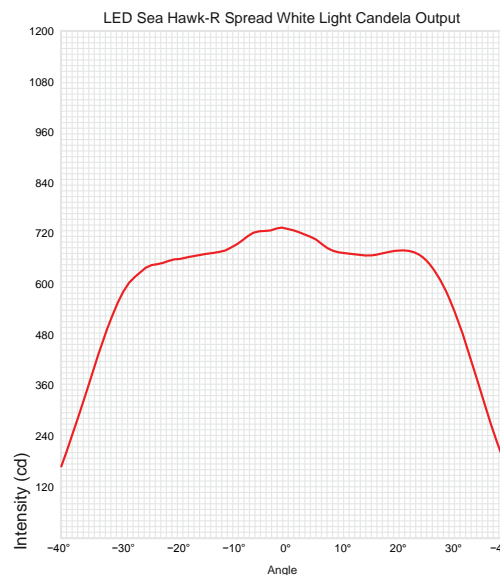
Friction mounts allow adjustment without tools.



Completely sealed lamp and cable entry. Polished 316 stainless steel bracket.



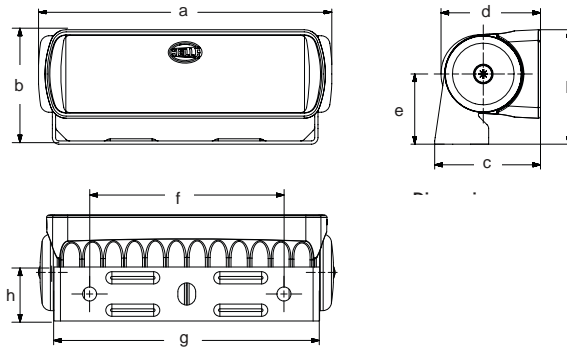
### Sea Hawk-R Candela and Lux performance.





Packaging for aftermarket presentation

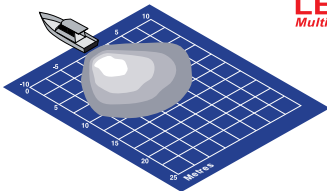
<b>Material Description</b>	'Non metal' thermally conductive polymer housing Heavy duty Grilamid lens
<b>Bracket</b>	Polished 316 stainless steel
<b>Colour Temperature</b>	5000K (White) / 3000K (Warm White)
<b>Cable</b>	Pre-wired with 0.5m of twin core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Power Consumption</b>	7W ( 0.58A@12V / 0.29A@24V )
<b>Weight</b>	250g (including cable)
<b>Light Output</b>	550 lumens (White) / 380 lumens (Warm White)
<b>Approvals</b>	CE, RCM



**Dimensions**

a = 136mm	/	5.35"
b = 53.0mm	/	2.08"
c = 49.0mm	/	1.93"
d = 46.0mm	/	1.81"
e = 32.5mm	/	1.28"
f = 90.0mm	/	3.54"
g = 123mm	/	4.84"
h = 25.0mm	/	0.98"

**Sea Hawk-R Bracket Mount**



**LED**  
Multivolt

**White Light LED Floodlights - Spread**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 573-011
9-33V DC	White Housing	2LT 980 573-021



**LED**  
Multivolt

**Warm White Light LED Floodlights - Spread**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 573-051
9-33V DC	White Housing	2LT 980 573-061







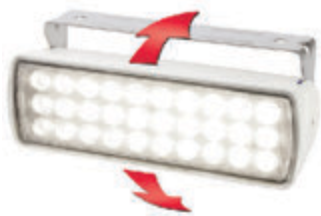
# LED Sea Hawk-XL

**12W 750 Lumen**

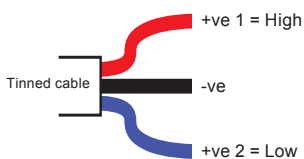
High performance LED floodlights with dual brightness function



Riviera 63FB [www.riviera.com.au](http://www.riviera.com.au)



Friction mounts allow adjustment without tools.



Two-Step high/low intensity via ON-OFF-ON switch.



Completely sealed lamp and cable entry. Polished 316 stainless steel bracket.

### 'Fit and forget' for a long service life

Each lamp is completely sealed and every aspect, material and component is carefully chosen to ensure longevity in the most demanding offshore conditions without compromise.

### Hi-tech materials

The lens is precision moulded from high performance Grilamid for strength and durability. The housings are injection moulded from a revolutionary corrosion proof, 'Non-metal' thermally conductive polymer that is highly resistant to degradation, even under harsh UV. This advanced material draws heat away from internal electronics for reliable long-term operation. Utilising thermal polymer eliminates the requirement for an external aluminium heat sink in this class of floodlight, removing potential surface deterioration and material corrosion risks associated with coated aluminium in the harsh marine environment.

### Integrated Dimming

A unique high/low light intensity function is standard with every lamp.

### Engineered light patterns

Sophisticated optics deliver a broad and even illumination without glare or harsh point sources. Spread lamps illuminate a wide, close-range spread over a cockpit, foredeck or working area. Spot lamps provide a narrower, more concentrated illumination suitable for yacht masts or to determine objects in the water during low speed docking.

### Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

### Pre-wired with three core marine cable

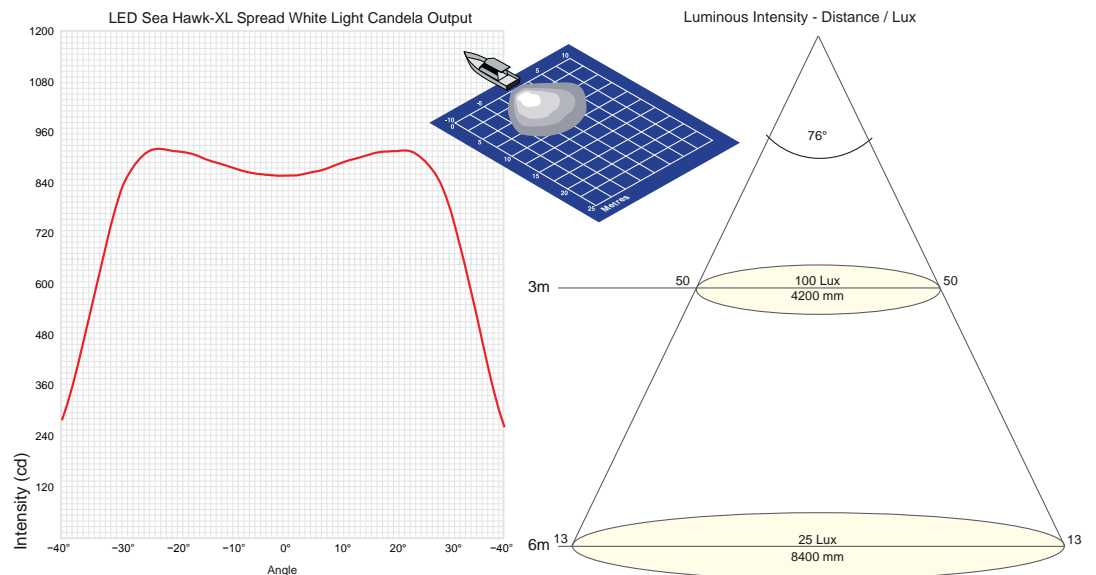
High quality sealed cable assemblies for time saving, completely sealed installations.

### Designed and manufactured in New Zealand

Sea Hawk lamps carry a 5 year warranty.



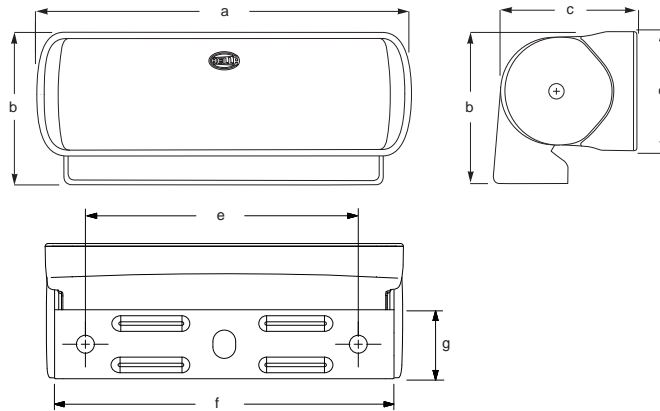
### Sea Hawk XL Candela and Lux performance. Spread.





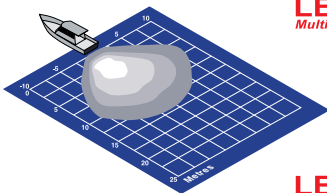
Packaging for aftermarket presentation

<b>Material Description</b>	'Non metal' Thermally conductive polymer housing Heavy duty Grilamid lens
<b>Bracket</b>	Polished 316 stainless steel
<b>Colour Temperature</b>	5500K (White) / 3000K (Warm White)
<b>Cable</b>	Pre-wired with 0.5m of triple core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Power Consumption</b>	High Intensity Mode 12W ( 1.00A@12V / 0.50A@24V ) Low Intensity Mode 2W ( 0.17A@12V / 0.08A@24V )
<b>Weight</b>	500g (including cable)
<b>Light Output</b>	750 lumens (White) / 500 lumens (Warm White)
<b>Approvals</b>	CE, C-Tick



**Dimensions**

a =	170mm / 6.69"
b =	68mm / 2.68"
c =	58mm / 2.28"
d =	55mm / 2.17"
e =	120mm / 4.72"
f =	154mm / 6.06"
g =	30mm / 1.18"



**Sea Hawk-XL Bracket Mount**

**White Light LED Floodlights - Spread**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 950-001
9-33V DC	White Housing	2LT 980 950-011

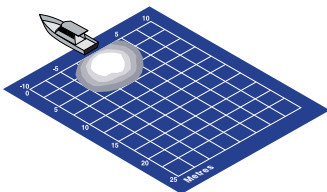


**Warm White Light LED Floodlights - Spread**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 950-101
9-33V DC	White Housing	2LT 980 950-111

**Spread pattern applications**

- Cockpit
- Foredeck
- Working areas



**Sea Hawk-XL Bracket Mount**

**White Light LED Deck Lamps - Spot**

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 980 950-201
9-33V DC	White Housing	2LT 980 950-211

**Spot pattern applications**

- Low speed docking
- Forward facing to illuminate objects in the water
- Spreader lamps on yacht masts





# LED Mega Beam and LED Module 70

**13W 800 Lumen**

Now offering 800 lumens of crisp white illumination



Close range floodlights with the energy saving advantages of Hella marine LED technology.

### Multivolt 9-30V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

### Pre-wired with marine cable

High quality sealed cable assemblies for time saving, completely sealed installations.

### Designed and manufactured in Austria

LED Mega Beam and Module 70 lamps carry a 5 year warranty.

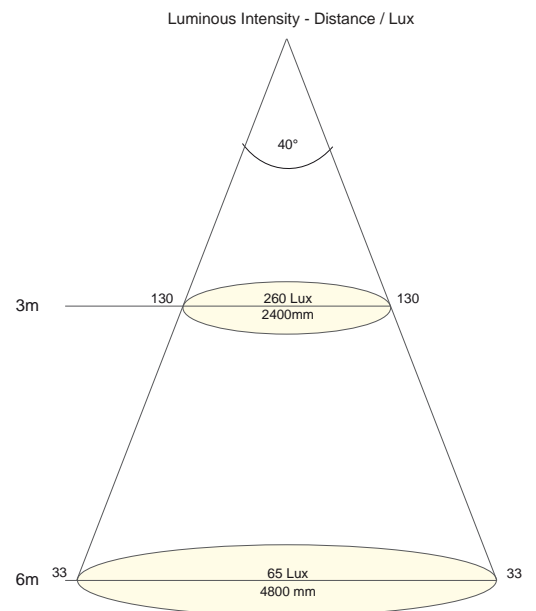
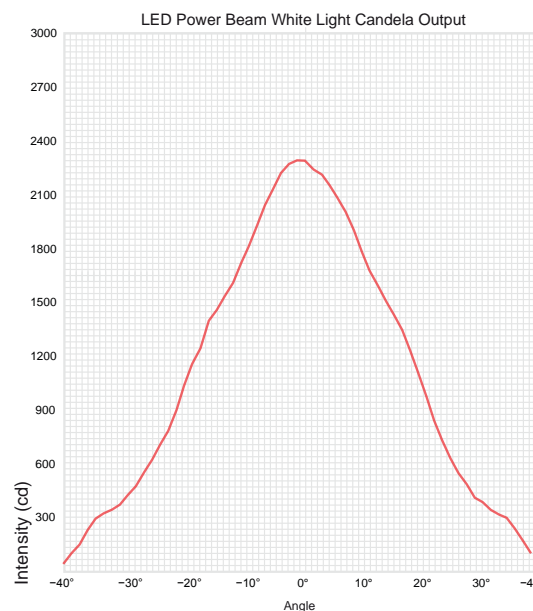


Evolution 552 [www.evolutionboats.com.au](http://www.evolutionboats.com.au)



- Completely sealed housing & cable entry
- Pre-wired with marine cable

### Module 70 Candela and Lux performance.



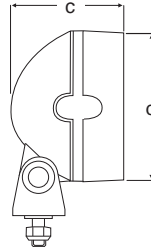
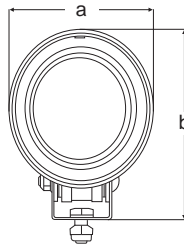




Packaging for aftermarket presentation



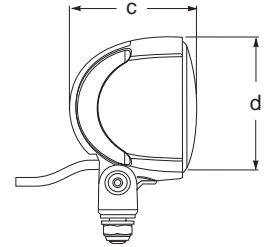
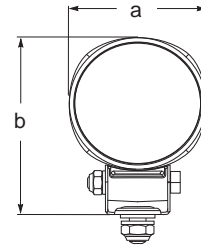
<b>Material Description</b>	UV and impact resistant plastic front housing Die cast aluminium body, Glass lens
<b>Bracket</b>	316 stainless steel
<b>Colour Temperature</b>	6500K
<b>Cable</b>	Pre-wired with 2.0m of twin core marine cable
<b>Operating Voltage</b>	Multivolt 9-30V DC
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Power Consumption</b>	13W ( <1.08A@12V / <0.54A@24V )
<b>Weight</b>	Mega Beam: 750g (including cable) Module 70: 500g (Including cable)
<b>Light Output</b>	800 lumens
<b>Approvals</b>	CE



Mega Beam

**Dimensions**

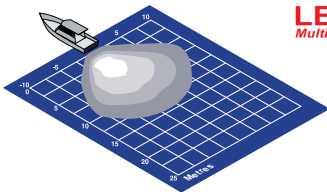
- a = 110mm / 4.33"
- b = 145mm / 5.70"
- c = 83mm / 3.27"
- d = 120mm / 4.72"



Module 70

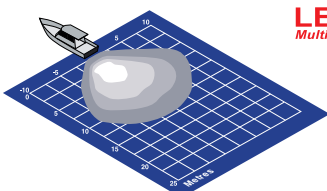
**Dimensions**

- a = 83mm / 3.27"
- b = 110mm / 4.33"
- c = 74mm / 2.91"
- d = 83mm / 3.27"



**LED Mega Beam Deck Floodlights**

Voltage	Housing Colour	Part Number
9-30V DC	White Housing	1GM 996 136-341
9-30V DC	Black Housing	1GM 996 136-351



**LED Module 70 Deck Floodlights**

Voltage	Housing Colour	Part Number
9-30V DC	White Housing	1GO 996 276-471
9-30V DC	Black Housing	1GO 996 276-452





# LED Power Beam

**18W 900 Lumen**

Powerful illumination in a low profile and compact housing



Bright white widespread illumination with all the energy saving and proven durability advantages of Hella marine LED technology.

#### Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

#### Pre-wired with marine cable

High quality sealed cable assemblies for time saving, completely sealed installations.

#### Designed and manufactured in Austria

Power Beam lamps carry a 5 year warranty.

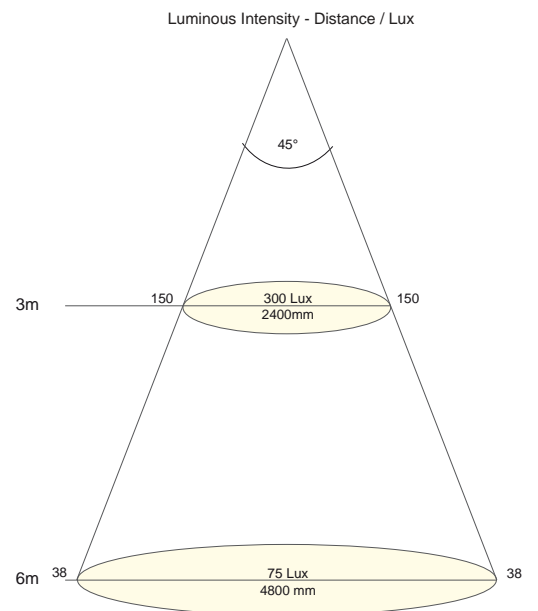
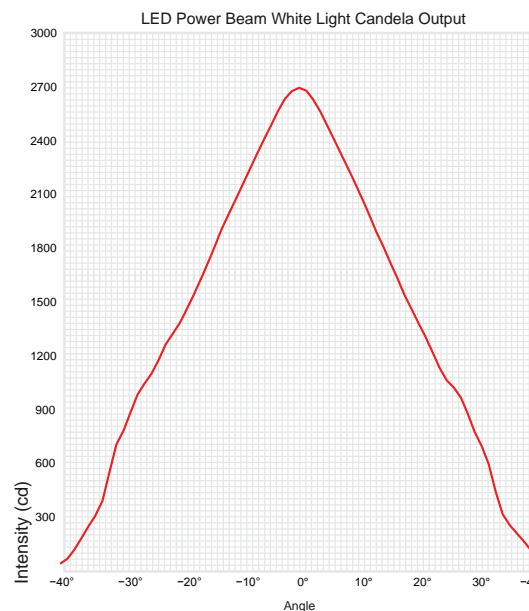


Haines 725 [www.haineshunter.co.nz](http://www.haineshunter.co.nz)

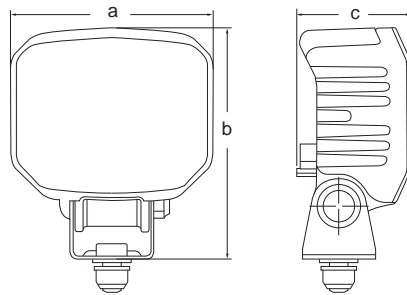
### Power Beam Candela and Lux performance.



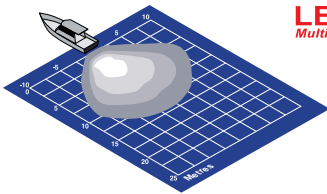
- Completely sealed housing & cable entry
- Pre-wired with marine cable



<b>Material Description</b>	UV and impact resistant plastic front housing Die cast aluminium body, Glass lens
<b>Bracket</b>	316 stainless steel
<b>Colour Temperature</b>	6500K
<b>Cable</b>	DT plug connection to twin core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Power Consumption</b>	18W ( <1.5A@12V / <0.75A@24V )
<b>Weight</b>	720g (including cable)
<b>Light Output</b>	900 lumens
<b>Approvals</b>	CE



**Dimensions:**  
a = 112mm / 4.41"  
b = 129mm / 5.08"  
c = 62mm / 2.44"



**LED**  
Multivolt

### Power Beam Deck Floodlights

Voltage	Housing Colour	Part Number
9-33V DC	White Housing	1GA 996 188-071
9-33V DC	Black Housing	1GA 996 188-081







# AS 5000 LED

**60W 5000 Lumen**

*Heavy duty lighting for the harshest environments*

*High Performance*

*Ultra Durable*

*No compromise*



**Hella marine AS 5000 LED floodlights are precision engineered to perform without failure, season after season.**

Every aspect, material and component has been carefully selected to ensure longevity in the most demanding environments.

Relentless Hella marine 'test to destruction' development programmes help lift product reliability to new levels. AS 5000 lamps endure the worst of vibration, shock and high impact torture tests.

**Powerful and efficient**

With over 5000 lumens, AS 5000 lamps offer highly effective illumination with a power consumption of only 60W (5A@12V and 2.5A@24V DC).

**Fully sealed and salt water durable**

Each lamp is a completely sealed IP 6K 9K unit, impervious to moisture and contaminants. The housing features a unique bonded non-stick coating that will not corrode, discolour, peel or flake even under harsh UV and is highly resistant to cleaning chemicals.

**Benchmark light distribution**

Hella's optical engineering expertise provides highly effective illumination for working vessels. Wide or narrow light beam patterns offer a crisp white 'close to daylight' 5700K colour temperature. Working under this colour of light reduces the fatigue and eye strain sometimes caused by warmer colour halogen lighting.

**Multivolt 9-33V DC**

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages. A reduced power mode activates below 11.6V to prevent battery drain when lights are on but the charging system may not be operating.

**Durable in extreme temperatures**

Tested to operate effectively from -40° to +50° Celsius. Integrated thermal protection ensures longevity of the electrical components at the most extreme operating temperatures.

**Long term secure installation**

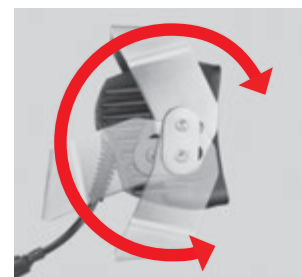
A sturdy 316 stainless steel bracket firmly holds the lamp to withstand harsh vibration and impact.

**Designed and manufactured in Australia**

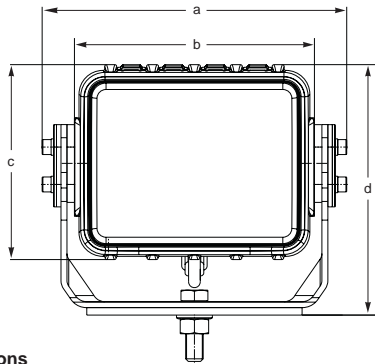
Hella marine AS 5000 lamps carry a 5 year warranty.



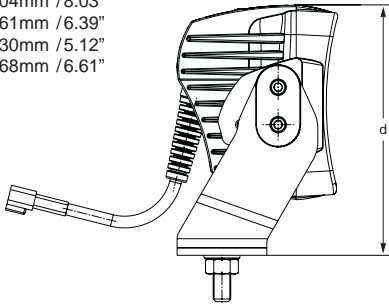
Completely sealed lamp and cable assembly.



The 316 stainless steel adjustable bracket holds the lamp to withstand harsh vibration and impact.

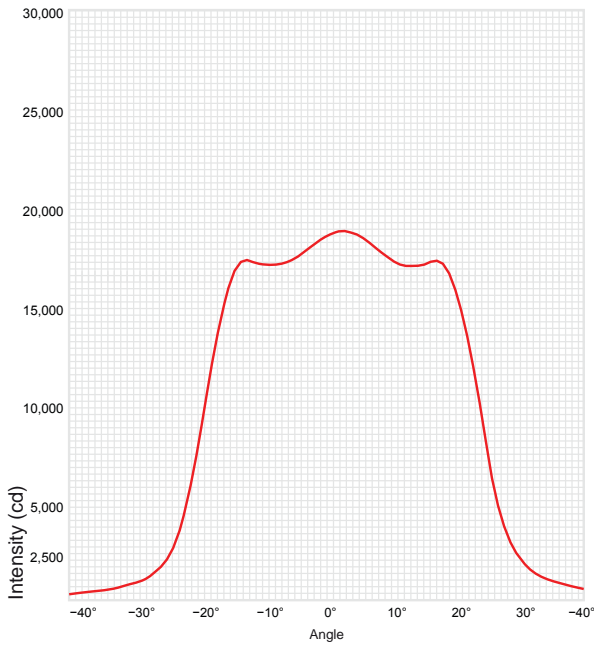


**Dimensions**  
 a = 204mm / 8.03"  
 b = 161mm / 6.39"  
 c = 130mm / 5.12"  
 d = 168mm / 6.61"

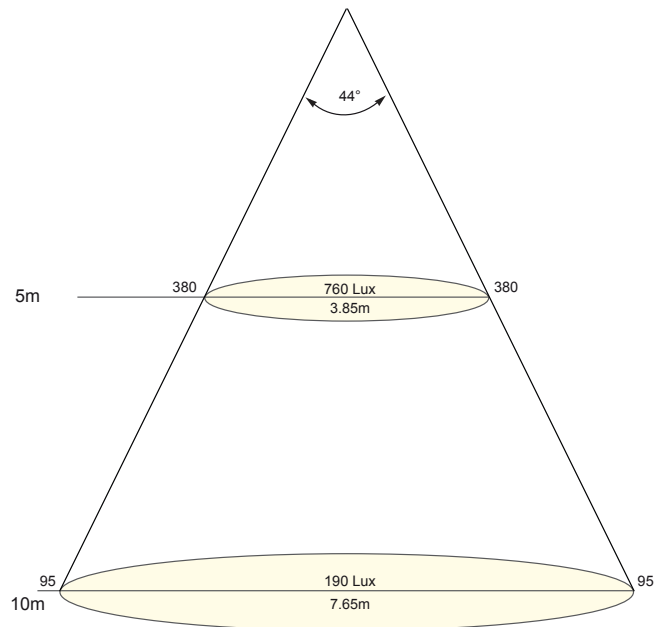


<b>Housing Material</b>	Die cast aluminium body. Non-stick surface coating
<b>Lens Material</b>	Heavy duty Grilamid
<b>Bracket</b>	316 stainless steel
<b>Colour Temperature</b>	5500K (White)
<b>Cable</b>	Pre-wired with twin core marine cable with 2 pin DT connector.
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Degree of Protection</b>	IP 6K9K - Completely Sealed
<b>Power Consumption</b>	60W ( 5A@12V / 2.5A@24V )
<b>Operating Temperature</b>	-40°C to + 50°C
<b>Weight</b>	2.6 Kg (including cable)
<b>Light Output</b>	5000 lumens
<b>Vibration Rating</b>	750Hz at 3.2mm
<b>Shock Rating</b>	200G
<b>Approvals</b>	CE, C-Tick, CISPR25 Class 2, ISO13766:2006

AS 5000 Wide Beam Floodlight Candela Output



Luminous Intensity - Distance / Lux



**White Light LED Floodlight - Wide Beam**

<b>Voltage</b>	<b>Housing Colour</b>	<b>Part Number</b>
9-33V DC	Black Housing	1GA 011 293-081



**White Light LED Floodlight - Narrow Beam**

<b>Voltage</b>	<b>Housing Colour</b>	<b>Part Number</b>
9-33V DC	Black Housing	1GA 011 293-091

**Accessories for AS 5000 Series**

<b>Description</b>	<b>Part Number</b>
100W 24V IP 67 AC-DC Power Supply	8ES 910 345-041
2.5m cable with DT Plug	9.1549.05



**Dimensions**  
 L 200mm / 7.87"  
 W 68mm / 2.68"  
 H 40mm / 1.58"



# HypaLUME

**240W** 20,000 Lumen

## 20,000+ LUMENS OF PURE POWER



One HypaLUME providing ample illumination on a 25m work boat.

**A quantum technology leap for commercial vessels, HypaLUME is Hella marine's most powerful floodlight.**

#### Hypa-Performance

The powerful optical system generates over 20,000 lumens for a mere 240W consumption (10A@24V) offering class leading efficacy. With this impressive output, HypaLUME provides usable light comparable to a 400W metal halide fitting for significantly less energy consumption.

#### Engineered reliability

Completely sealed (IP6K9K) housings are impervious to moisture and contaminants. HypaLUME development programs had endured arduous torture tests of harsh vibration, impact, thermal shock, deluge testing, EMC bursts, accelerated corrosion and harsh chemical exposure.

#### Proven durable materials

Heavy duty Grilamid is specified for the lens material due to advantages in UV and chemical resistance and exceptionally high impact resistance. The unique heat-sink housing features a bonded non-stick coating that will not corrode, discolour, peel or flake.

#### Benchmark working light colour

The wide reaching beam pattern offers crisp white 'close to daylight' 5700K colour temperature. Working under this colour of light reduces the fatigue and eye strain sometimes caused by warmer colour halogen lighting.

#### Reliable in extreme conditions

Tested to operate from -40° to +50° Celsius with no decrease in output, HypaLUME provides utmost reliability in the most extreme operating temperatures.

#### Secure installation

A heavy duty 316 stainless steel bracket firmly grips the HypaLUME to withstand harsh vibration and impact while also providing vertical angle adjustment.

#### Designed and manufactured in Australia

HypaLUME lamps carry a 5 year warranty.



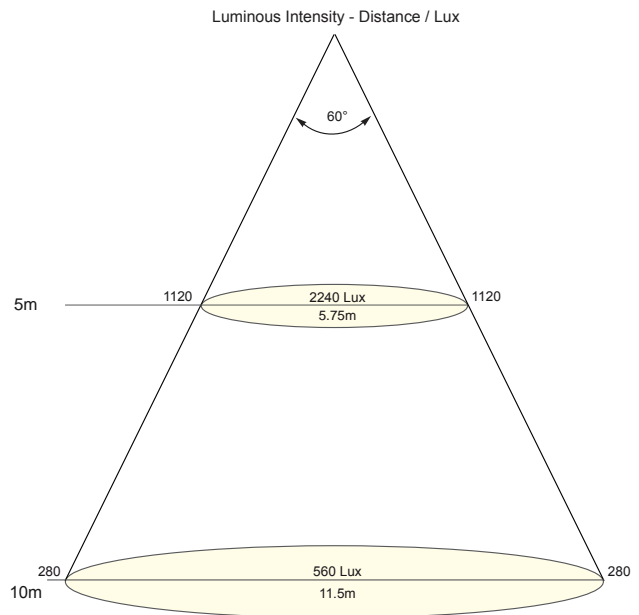
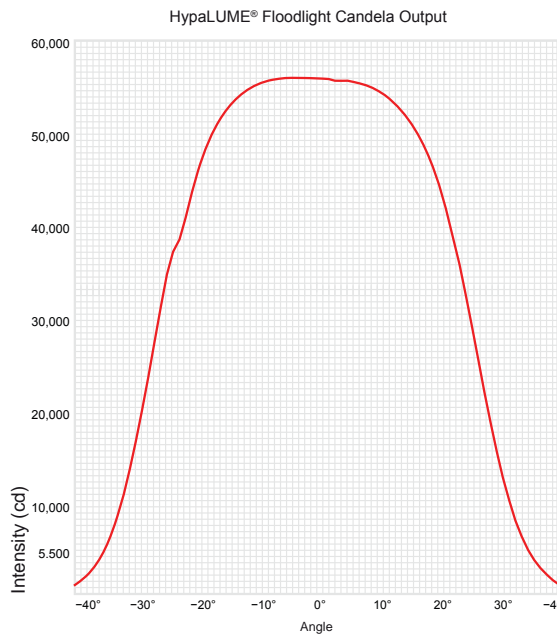
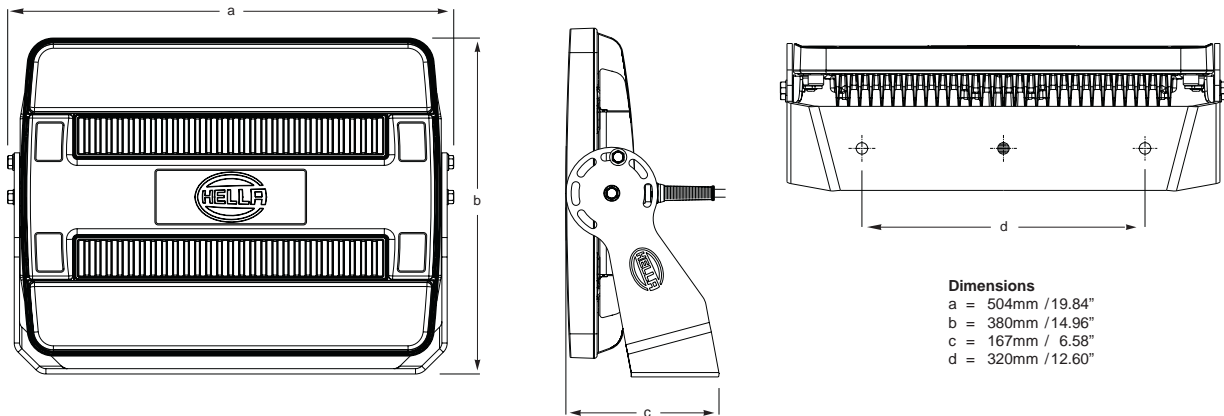
Heavy duty 316 stainless steel bracket allows vertical angle adjustment.







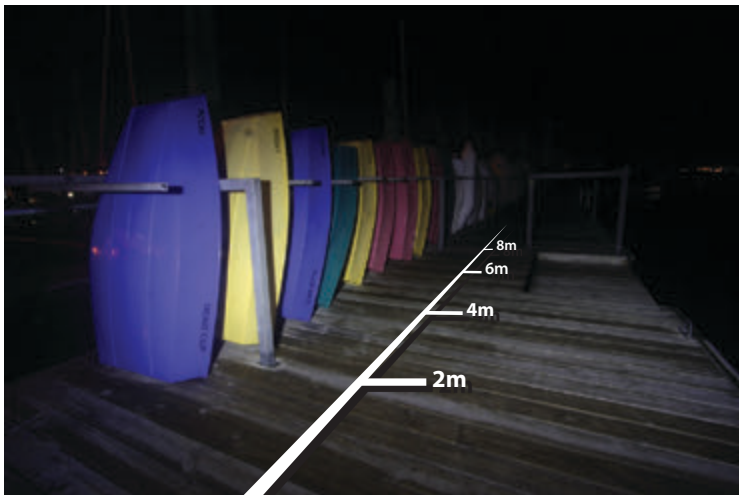
<b>Housing Material</b>	Die cast aluminium body. Non-stick surface coating
<b>Lens Material</b>	Heavy duty Grilamid
<b>Bracket</b>	316 stainless steel
<b>Colour Temperature</b>	5700K (Daylight White)
<b>Cable</b>	Pre-wired with 1.8m of twin core marine cable
<b>Operating Voltage</b>	Multivolt 18-52V DC
<b>Degree of Protection</b>	IP 6K 9K - Completely Sealed
<b>Power Consumption</b>	240W ( 10A@24V )
<b>Operating Temperature</b>	-40°C to + 50°C
<b>Weight</b>	13.3 Kg (including cable)
<b>Light Output</b>	20000 lumens
<b>Vibration Rating</b>	750Hz at 3.2mm
<b>Approvals</b>	CE, C-Tick, CISPR25 Class 2, ISO13766:2006



**White Light LED Floodlight - Close Beam**

<b>Voltage</b>	<b>Housing Colour</b>	<b>Part Number</b>
18-52V DC	Black Housing	1GA 011 872-121

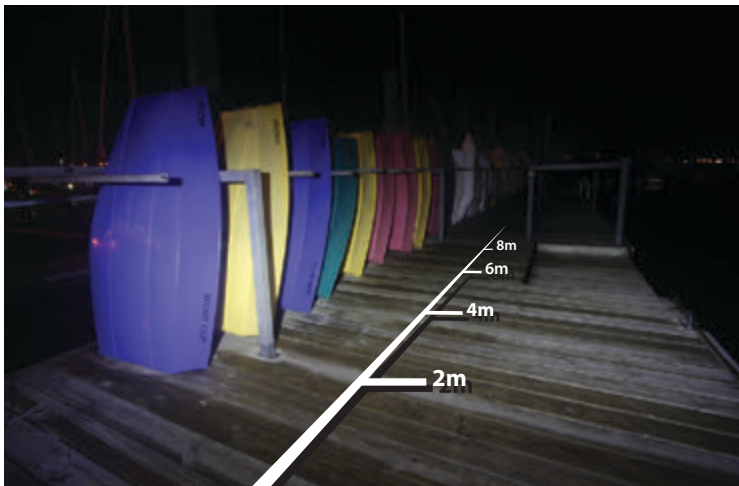
# LED Floodlight Comparisons



## Sea Hawk

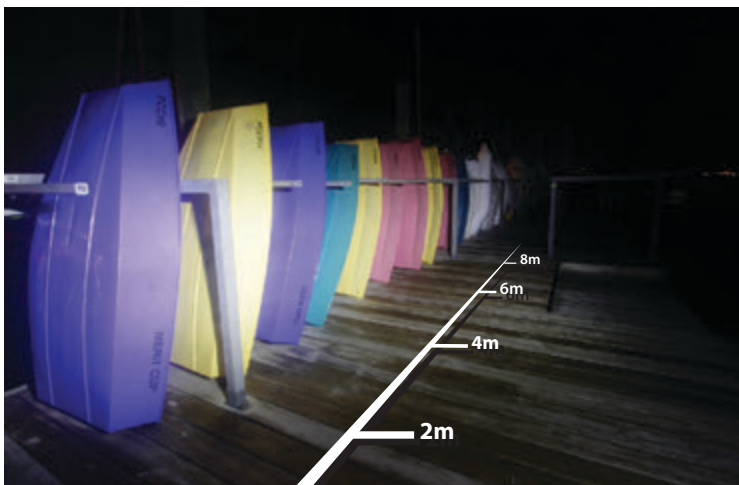
**3W 200 Lumen**

Spread.



## Sea Hawk-R

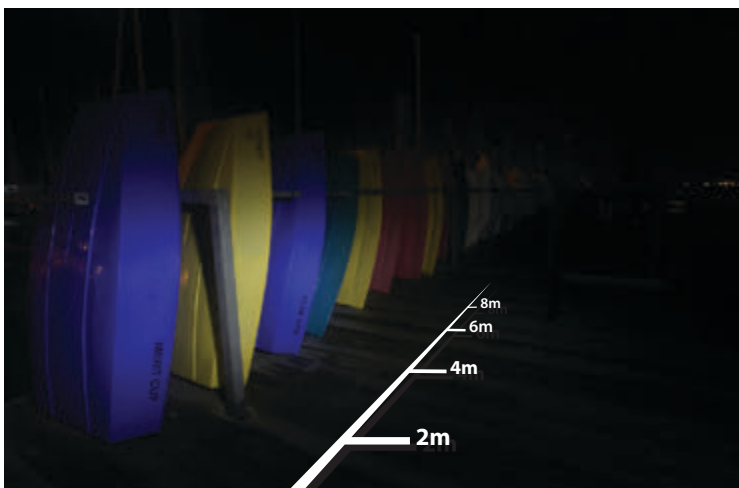
**7W 550 Lumen**



## Sea Hawk-XL

**12W 750 Lumen**

Spread. High Intensity Mode



## Sea Hawk-XL

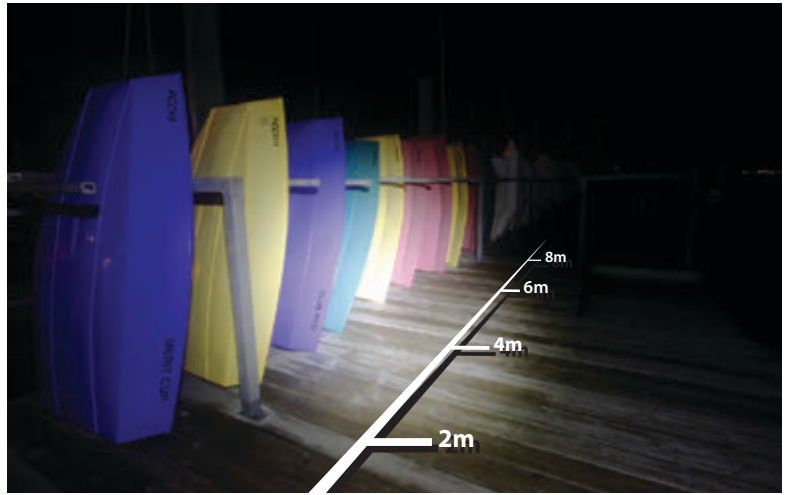
**2W 150 Lumen**

Spread. Low Intensity Mode



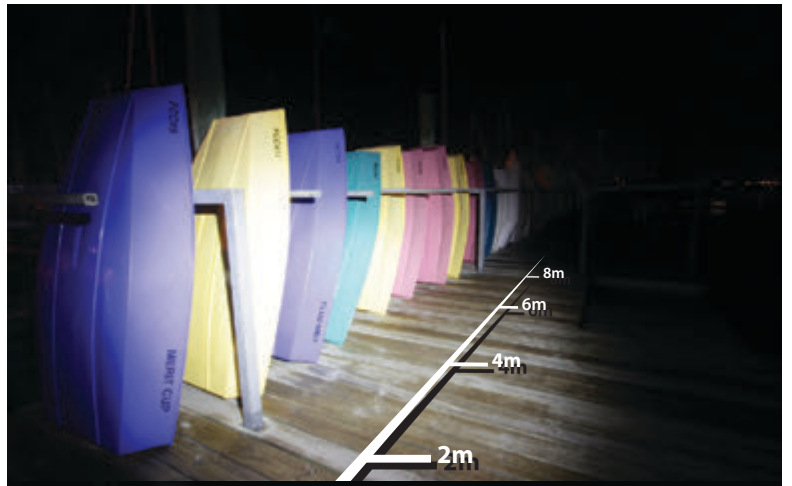
### Module 70

**13w 800 Lumen**



### Power Beam

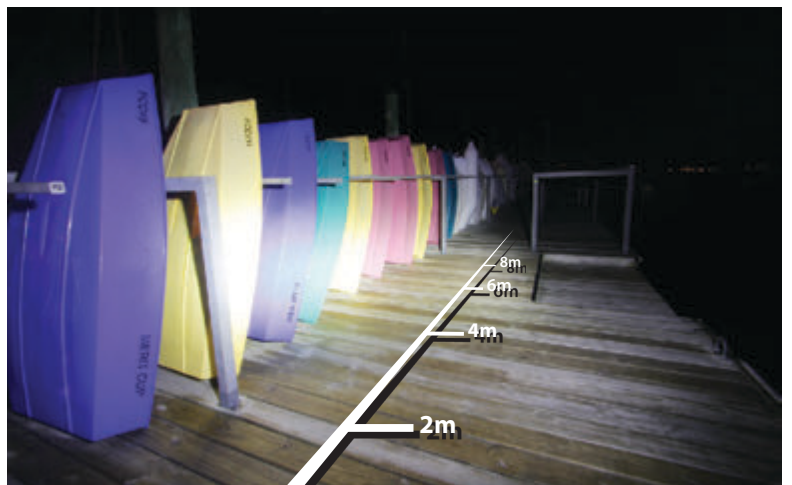
**18w 900 Lumen**



### AS 5000 LED

**60w 5000 Lumen**

Spread.



### HypaLUME

**240w 20,000 Lumen**





## Introduction



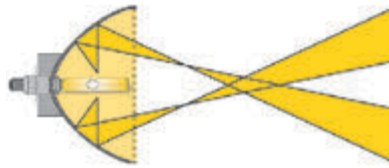
### Xenon Gas Discharge (HID) Technology

HID Deck Floodlights differ from traditional bulb versions. Instead of light being created by passing current through a filament to make it glow, light is created by an arc in a tube filled with a mixture of xenon gas and metal salts. The light arc is shock proof as there is no filament to break.

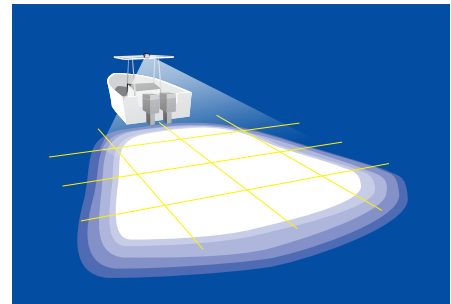
A compact 12V or 24V DC electronic ballast is used to ignite the HID bulb and provide constant levels of light output, even if the vessel's voltage supply fluctuates by up to 10%.

The advantages of using Xenon Gas Discharge (HID) deck floodlights in comparison to halogen versions include:

- 2.5 times the luminous flux (light output) and 35% less power consumption.
- Increased luminance results in a brighter and larger illumination of working areas.
- Light spectrum is similar to daylight – for natural colour reproduction of the environment.
- Vibration resistant light arc instead of a fragile filament.
- Service life up to five times longer – reduced expenditure for bulb replacement.
- Constant brightness – independent of fluctuations of up to 10% in the supply voltage.
- Only 42W power consumption – less strain on the vessel's power supply.



Free Form reflector with Gas Discharge (HID)



### Important information concerning mounting and operation of Xenon Gas Discharge (HID) technology.

- HID deck floodlights are supplied with a wiring harness, relay and fuse. The startup current of 20A (for 12V) or 10A (for 24V) requires a relay under all circumstances.  
A 20A fuse is required for 12V systems, a 15A fuse for 24V systems.
- Complete the electrical connection only with the wiring harness supplied. When extending the wiring harness, sufficient cross section must be ensured. The internal resistance of the electrical connection (including relay, fuse and earth lead) between ballast and battery must not exceed 150W (for 12V) or 300W (for 24V) under all circumstances. If the resistance is higher, the current of 20A (for 12V) or 10A (for 24V) required for ignition of the light arc cannot be reached. Inefficient ignition use can cause damage to the electronic ballast.
- Ignition problems can occur when a number of Xenon lamps are started simultaneously. This can result in damage to the electronic ballasts. For this reason it is strongly recommended to activate the lamps sequentially with a short time delay of approximately 5-20 seconds depending on the vessels electrical system.

## 6142 and 8534 HID (Xenon) Floodlights



**More light, greater safety, less power consumption, longer life and proven reliability in tough working conditions.**

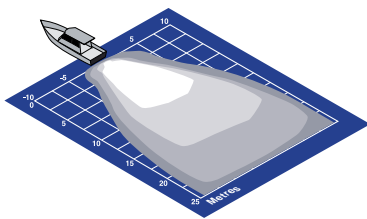


Hella marine HID floodlights use a D2S Xenon bulb that provides up to 5 times the service life of a traditional halogen bulb. Due to advanced 'Free Form' reflector technology, Hella marine HID floodlights have 2.5 times the light output of halogen floodlights.

HID floodlights produce a white light very close to daylight, with a greater range and extremely wide deck illumination. The safety benefits of increased natural white light include easier viewing in dark working conditions and dramatically reduced eye strain.

A compact 12V or 24V DC electronic ballast provides constant levels of light output, even if the vessel's voltage supply fluctuates by up to 10%.

In addition, HID floodlights place less strain on the vessel's electrical system than halogen deck floodlights - total consumption is 42W - 35W for the bulb, 7W for the ballast.

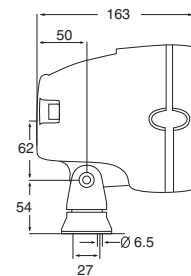
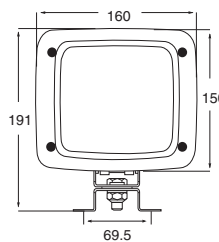


<b>Housing Description</b>	UV and impact resistant plastic housing	<b>Replacement Bulb Type -</b>
<b>Bulb</b>	35W D2S bulb included	<b>D2S</b>
<b>Mounting</b>	Upright mounting	12 / 24V / 35W
<b>Degree of Protection</b>	IP 5K4	Gas discharge bulb
<b>Maximum Output</b>	Approx. 42W (12V) or 41W (24V)	8GH 002 091-001
<b>Operating Voltage</b>	12V DC    9 - 16V	
	24V DC    18 - 32V	

### 6142 Series HID Deck Floodlights with Integrated Ballast



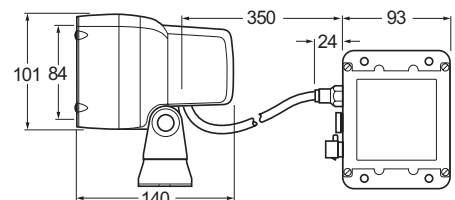
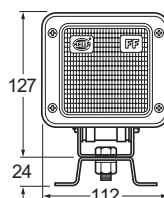
Voltage	Housing Colour	Part Number
12V	White Housing	1GA 996 142-201
24V	White Housing	1GA 996 142-211



### 8534 Series HID Deck Floodlights with Remote Ballast



Voltage	Housing Colour	Part Number
12V	White Housing	1GA 998 534-021
24V	White Housing	1GA 998 534-031



## 7118 and 8518 Serie

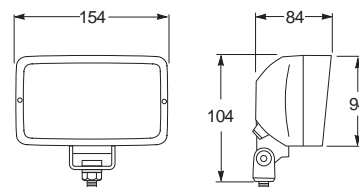


Off White Housing  
Structured Lens

### 7118 Series

Fiber reinforced housing and Free Form reflector for close range homogeneous illumination.

- Hella 'Free Form' reflector technology
- Sealed cable entry gland and pre-wired cable option
- Structured or Crystal Clear lens option
- Extended front edge for lens protection
- 316 Stainless steel mounting hardware



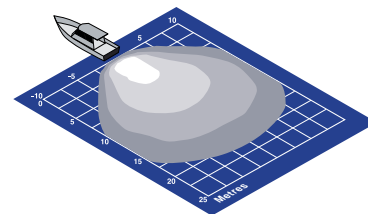
### Replacement Bulb Type

#### PK22s

12V / 55W YC1255  
24V / 70W YC2470

<b>Housing Description</b>	UV and impact resistant plastic housing
<b>Bulb</b>	12V / 55W H3 bulb included
<b>Mounting</b>	Upright mounting
<b>Cable Entry</b>	Sealed cable entry gland Pre-wired twin core marine cable.
<b>Degree of Protection</b>	IP X4
<b>Maximum Output</b>	12V / 55W or 24V / 70W

*Note - Not suitable for 100W bulbs*



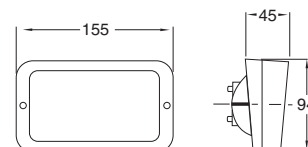
### 7118 Series Halogen Deck Floodlights

Voltage	Housing Colour	Lens	Cable Entry	Part Number
12V	Off White	Structured Lens	Gromet	1GA 007 118-001
12V	Off White	Structured Lens	Cable Gland	1GA 007 118-051
24V	Off White	Structured Lens	Cable Gland	1GA 007 118-071
12V	Black	Structured Lens	Cable Gland	1GA 007 118-091
12V	Ice White	Clear Lens	Cable Gland	1GA 007 118-081
12V	Ice White	Structured Lens	Cable Gland	1GA 007 118-101

### 8518 Series - Flush Mount

White fiber reinforced housing and Free Form reflector for close range homogeneous illumination.

- Seal between frame and attachment surface
- Cable entrance through rubber grommet
- Large 135 x 75mm light aperture
- 316 stainless steel screws



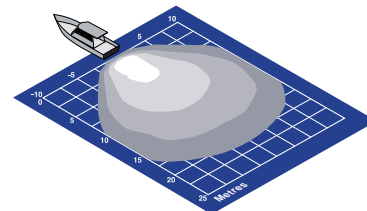
### Replacement Bulb Type

#### PK22s

12V / 55W YC1255  
24V / 70W YC2470

<b>Housing Description</b>	UV and impact resistant plastic housing
<b>Bulb</b>	12V / 55W H3 bulb included
<b>Mounting</b>	Recess mount - Front inclination 5 degrees
<b>Cable Entry</b>	Terminals at rear of reflector
<b>Degree of Protection</b>	IP X4
<b>Maximum Output</b>	12V / 55W or 24V / 70W

*Note - Not suitable for 100W bulbs*



### 8518 Series Flush Mount Halogen Deck Floodlight

Voltage	Housing Colour	Lens	Part Number
12V	Off White	Structured Lens	1GA 998 518-001





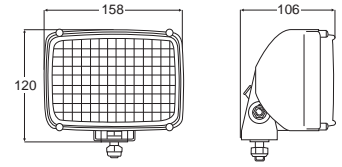
**8541 Series**

Wide spread close range illumination with double 'Free Form' reflector. White fibre reinforced plastic housing with extended front edge to protect lens.

- Twin Hella 'Free Form' reflector technology
- Triple the light output compared to conventional lamps of the same size
- Large 145 x 83mm light aperture
- Extended front edge for lens protection
- 316 Stainless steel mounting hardware

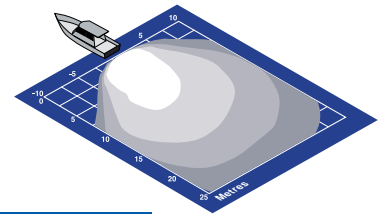
<b>Housing Description</b>	UV and impact resistant plastic housing
<b>Bulb</b>	2 x 12V / 55W H3 bulbs included
<b>Mounting</b>	Upright mounting
<b>Cable Entry</b>	Pre-wired with 110mm of cable
<b>Degree of Protection</b>	IP 54
<b>Maximum Output</b>	2 x 12V / 55W or 2 x 24V / 70W

*Note - Not suitable for 100W bulbs*



**Replacement Bulb Type -**

- PK22s**  
 12V / 55W  
 8GH 002 090-131
- 24V / 70W  
 8GH 002 090-251



**8541 Series Halogen Deck Floodlight** **Bracket**

<b>Voltage</b>	<b>Housing Colour</b>	<b>Part Number</b>
12V	White Housing	1GB 998 541-001

Stainless steel bracket for stabilized mounting in areas subject to vibration.  
 9XD 130 261-001



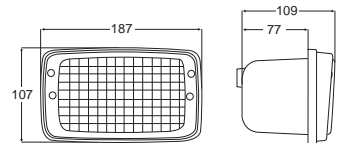
**8542 Series - Flush Mount**

Wide spread close range illumination with double 'Free Form' reflector. Flush mount fibre reinforced plastic housing with extended front edge to protect lens.

- Twin Hella 'Free Form' reflector technology
- Triple the light output compared to conventional deck lamps of the same size
- Extended front edge for lens protection
- Large 145 x 83mm light aperture
- 7° upwards or downwards inclination

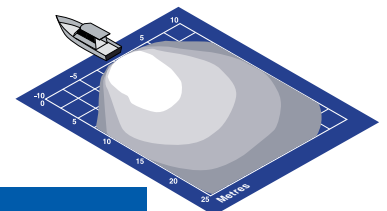
<b>Housing Description</b>	UV and impact resistant plastic housing
<b>Bulb</b>	2 x 12V / 55W H3 bulbs included
<b>Mounting</b>	Recess Mount. Pre-wired with 250mm of cable
<b>Degree of Protection</b>	IP 54
<b>Maximum Output</b>	2 x 12V / 55W or 2 x 24V / 70W

*Note - Not suitable for 100W bulbs*



**Replacement Bulb Type -**

- PK22s**  
 12V / 55W  
 8GH 002 090-131
- 24V / 70W  
 8GH 002 090-251



**8542 Series Flush Mount Halogen Deck Floodlight**

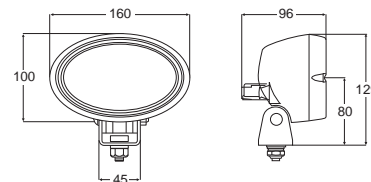
<b>Voltage</b>	<b>Housing Colour</b>	<b>Part Number</b>
12V	White Housing	1GB 998 542-001

## 6361 Series

### 6361 Oval 100 Series

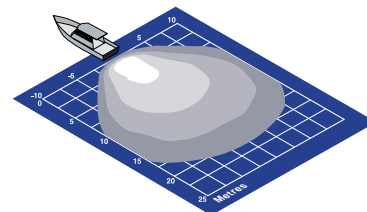
White fibre reinforced housing and Free Form reflector for close range homogeneous illumination. Sturdy housing design for use under heavy duty conditions.

- Extended front edge for lens protection
- Glass lens bonded with reflector to be dust and moisture resistant
- 316 Stainless steel mounting hardware
- Sealed cable entry via threaded gland with nut
- Suitable for applications subject to heavy vibration
- Upright or pendant mounting. Can be rotated through 180°



#### Replacement Bulb Type -

**PK22s**  
12V / 55W  
8GH 002 090-131  
  
24V / 70W  
8GH 002 090-251



Sealed cable entry gland with nut.  
Pre-wired with 300mm of twin core marine cable.

<b>Housing Description</b>	UV and impact resistant plastic housing
<b>Bulb</b>	12V / 55W or 24V / 70W H3 bulb included
<b>Mounting</b>	Upright mounting
<b>Cable Entry</b>	Pre-wired with 300mm of cable
<b>Degree of Protection</b>	IP 6K 9K
<b>Maximum Output</b>	12V / 55W or 24V / 70W

*Note - Not suitable for 100W bulbs*

#### 6361 Series Halogen Deck Floodlight Bracket

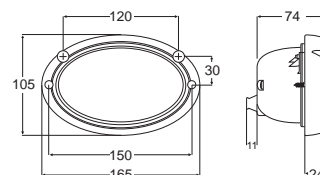
Voltage	Housing Colour	Part Number	Bracket
12V	White Housing	1GA 996 361-131	Stainless steel bracket for stabilized mounting in areas subject to vibration. 9XD 130 261-001
24V	White Housing	1GA 996 361-391	



### 6361 Oval 100 Series - Flush Mount

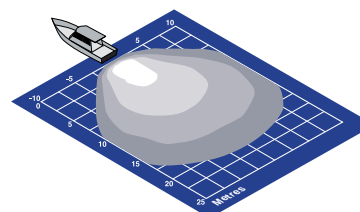
White fibre reinforced housing and 'Free Form' reflector for close range homogeneous illumination. Sturdy housing design for use under heavy duty conditions.

- Extended front edge for lens protection
- Glass lens bonded with reflector to be dust and moisture proof
- Sealed cable entry via threaded gland with nut
- Suitable for applications subject to heavy vibration



#### Replacement Bulb Type -

**PK22s**  
12V / 55W  
8GH 002 090-131  
  
24V / 70W  
8GH 002 090-251



<b>Housing Description</b>	UV and impact resistant plastic housing
<b>Bulb</b>	12V / 55W or 24V / 70W H3 bulb included
<b>Mounting</b>	Recess Mount
<b>Cable Entry</b>	Pre-wired with 300mm of cable
<b>Degree of Protection</b>	IP 6K 9K
<b>Maximum Output</b>	12V / 55W or 24V / 70W

*Note - Not suitable for 100W bulbs*

#### 6361 Series Flush Mount Halogen Deck Floodlight

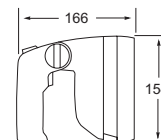
Voltage	Housing Colour	Part Number
12V	White Housing	1GA 996 361-141
24V	White Housing	1GA 996 361-401



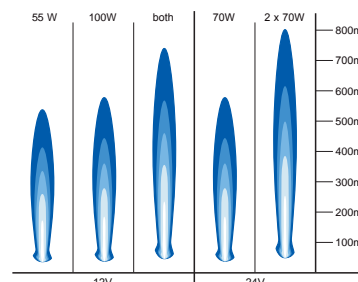
**8502 Series - Powerful Twin Beam Hand Held Search Light**

Hella marine hand held search lights are vital tools for night sailing and landing manoeuvres.

- Two reflectors and two halogen bulbs on separate switches
- 55W bulb for close range. 100W bulb for long range (12V Version)
- 2 x 70W bulbs (24V Version)
- Trigger switch integrated into the grip allows morse code operation
- Extended front edge for protection of the glass lens



**Illumination Distance**



<b>Housing Description</b>	Shock and vibration resistant plastic High gloss aluminium reflector
<b>Bulbs</b>	1 x 12V / 55W H3 bulb included 1 x 12V / 100W H3 bulb included 2 x 24V / 70W H3
<b>Installation</b>	Spiral cable with cigarette lighter plug Extended length 3.5m
<b>Degree of Protection</b>	IP X6K



**Deck mount base**  
8HG 998 519-001

**8502 Series Hand Held Search Light**

Voltage	Housing Colour	Part Number
12V	Black Housing	1H3 998 502-001
24V	Black Housing	1H3 998 502-011

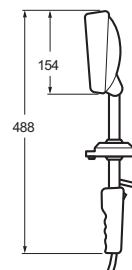
**Replacement Bulb Type -**

- PK22s**  
12V / 55W  
8GH 002 090-131  
12V / 100W  
8GH 002 090-151  
24V / 70W  
8GH 002 090-251

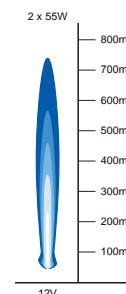
**8502 Series - Powerful Twin Beam Fixed Mount Search Light**

Designed for installations through cabin roofs.

- Two reflectors and two halogen bulbs on separate switches
- Two 12V / 55W or 24V / 70W bulbs
- 360° rotation. 30° vertical adjustment
- Extended front edge for protection of the glass lens



**Illumination Distance**



<b>Housing Description</b>	Shock and vibration resistant plastic High gloss aluminium reflector
<b>Bulbs</b>	2 x 12V / 55W H3 bulbs included 2 x 24V / 70W H3
<b>Installation</b>	Pre-wired with 350mm of cable Grommet sealed. O-ring included
<b>Degree of Protection</b>	IP X6K

**8502 Series Fixed Mount Search Light**

Voltage	Housing Colour	Part Number
12V	Black Housing	1H3 998 502-021
24V	Black Housing	1H3 998 502-041

**Replacement Bulb Type -**

- PK22s**  
12V / 55W  
8GH 002 090-131  
24V / 70W  
8GH 002 090-251

**Spare Parts - Hand Held Search Lights**



- 1 Light unit**  
9DS 998 528-001



**Deck mount base**  
8HG 998 519-001

**Spare Parts - Fixed Mount Search Lights**



- 1 Light unit**  
9DS 998 528-001



8505 Series Masthead / Floodlight Combination Lamps



**8505 Series**

Deck Floodlight and Masthead Lamp combined in one robust housing. Suitable for vessels less than 12m in length.

**Features:**

- 2 Nautical Mile Masthead lamp
- Hella marine 'Free Form' reflector technology
- Flexible mounting arms for mounting on a variety of mast profiles
- Halogen reflector lamp (12V / 20W) with cover for moisture protection
- All metal parts are stainless steel
- Bulb replaces via opening in the cover
- Black or White fiber reinforced housing



**Housing Description**

UV and impact resistant plastic housing

**Bulbs**

12V / 10W SV8.5 and 12V / 20W GX5.3 bulbs included

**Mounting**

Navigation lamp requires wiring through grommet on back plate

Floodlight pre-wired with 110mm of cable

Housing arms flex to fit around mast profile

**Degree of Protection**

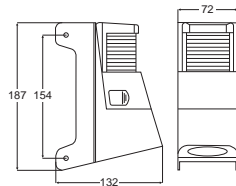
IP X4

**Maximum Output**

Deck lamp 12V / 20W

**Approvals**

IMO COLREG, USCG, ABYC A-16, RINA, RCD



**Replacement Bulb Type**

**Floodlight GX5.3**

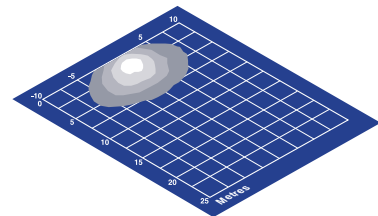
12V / 20W 8GH 998 529-001  
28V / 20W 8GH 998 529-011

**Masthead SV8.5**

12V / 10W K1210  
24V / 10W K2410

**8505 Series Masthead / Floodlight Lamps**

Voltage	Housing Colour	Part Number
12V	Black Housing	2LT 998 505-001
12V	White Housing	2LT 998 505-011



**8505 Series Spare Parts**

**Floodlight Bulb**

12V / 20W 8GH 998 529-001  
28V / 20W 8GH 998 529-011

**Masthead Bulb**

12V / 10W K1210  
24V / 10W K2410



**8504 Series**

Deck Floodlight and Masthead Lamp combined in one robust housing.  
Suitable for vessels less than 20m in length.

**Features:**

- 3 Nautical Mile Masthead lamp
- Hella 'Free Form' reflector technology
- Flexible mounting arms for mounting on a variety of mast profiles
- Illuminates large areas of deck or superstructure
- Glass lens bonded with reflector to be dust and moisture resistant
- All metal parts are stainless steel
- Black or White fibre reinforced housing



**Housing Description**

UV and impact resistant plastic housing

**Bulbs**

12V / 10W BAY15d and 12V / 55W H3 bulbs included

**Mounting**

Navigation lamp and Deck Floodlight require separate wiring

Housing arms flex to fit around mast profile

**Degree of Protection**

IP X4

**Maximum Output**

Deck lamp 12V / 55W or 24V / 70W

*Note - Not suitable for 100W bulbs*

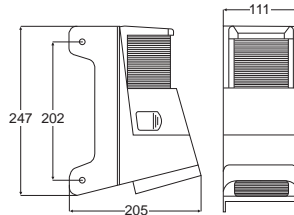
**Approvals**

IMO COLREG, BSH, USCG, ABYC A-16,  
RINA, RCD

**Replacement Bulb Type**

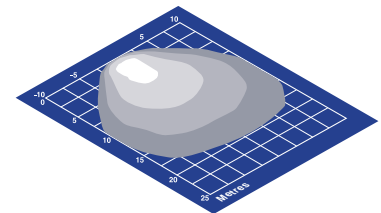
**Floodlight PK22s**  
12V / 55W YC1255  
24V / 70W YC2470

**Masthead BAY15d**  
12V / 25W EA1225  
24V / 25W EA2425



**8504 Series Masthead / Floodlight Lamps**

Voltage	Housing Colour	Part Number
12V	Black Housing	2LT 998 504-001
12V	White Housing	2LT 998 504-011



**8504 Series Spare Parts**

**'FF' Floodlight Insert**  
9.1533.01

**Floodlight Bulb**  
12V / 55W YC1255  
24V / 70W YC2470

**Lamp housing white**  
9EL 127 083-071

**Masthead Bulb**  
12V / 25W EA1225  
24V / 25W EA2425

Halogen and Xenon



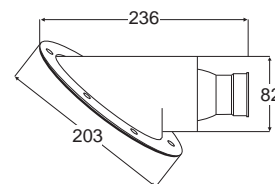
**Halogen Docking Lights**

Flush mounted docking lights with an advanced 'DE' lens that provides a wide light angle for close range illumination forward of the bow.

The principle of a 'DE' lamp is similar to a projector. An ellipsoid reflector aims the light at a convex lens, which projects the light with the designed light distribution.



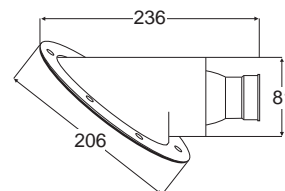
<b>Housing Description</b>	UV and impact resistant plastic or polished 316 stainless steel
<b>Bulbs</b>	12V / 55W or 24V / 70W H3 bulbs included
<b>Installation</b>	Recess mount in bow
<b>Degree of Protection</b>	IP 67
<b>Maximum Output</b>	12V / 55W or 24V / 70W



Plastic Housing Dimensions (mm)

**Halogen Docking Lamps (Pair)**

Voltage	Wattage	Housing Type	Part Number
12V	42	Plastic	1NB 998 546-801
24V	42	Plastic	1NB 998 546-811
12V	42	316 Stainless	1NB 998 546-841
24V	42	316 Stainless	1NB 998 546-851



Stainless Housing Dimensions (mm)



**Powerful Xenon Gas Discharge (HID) Docking Lights**

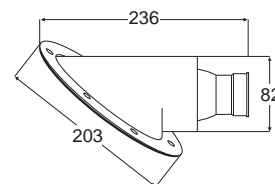
**Gas Discharge (HID) Docking Lights**

High performance Gas Discharge (HID) docking lights with an advanced 'DE' lens that provides greater safety and a very wide illumination forward of the bow with less power consumption than halogen bulb versions. HID docking lamps also provide a longer life for reliability in tough working conditions.

HID docking lights have a light output 2.5 times greater than halogen docking lights, with HID bulbs that provide up to 5 times the service life of halogen bulbs.



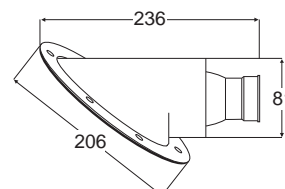
<b>Housing Description</b>	UV and impact resistant plastic or polished 316 stainless steel
<b>Bulbs</b>	35W D2S gas discharge bulbs included
<b>Installation</b>	Recess mount in bow
<b>Degree of Protection</b>	IP 67
<b>Maximum Output</b>	Approx. 42W (12V) or 41W (24V)



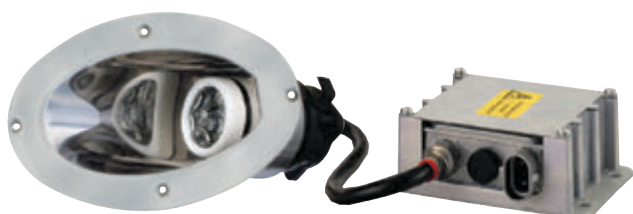
Plastic Housing Dimensions (mm)

**Xenon Docking Lamps (Pair)**

Voltage	Wattage	Housing Type	Part Number
12V	42	Plastic	1NB 998 546-821
12V	42	316 Stainless	1NB 998 546-861



Stainless Housing Dimensions (mm)







*LED Interior and Exterior Lighting*

**Hella marine**   
*Vision and Innovation*

## LED Interior and Exterior Lighting

### LED Technology

Hella marine LED interior, exterior and courtesy lamps provide efficient, power saving and ultra durable illumination for reliability and safety at sea.

#### Ultra Low Power Consumption

Combining efficient LED light sources with advanced optic technology, Hella marine LED products deliver more light output per watt than traditional bulb lamps and thus provide considerable energy savings.

As an example, Hella marine DuraLed heavy duty 36 LED lamps use less than 15% of the power required to run a 60W fluorescent lamp, yet provide a considerably wider, whiter and more intense light pattern.

#### Ultra low heat signature for improved safety

All Hella marine LED lamps feature an ultra low heat signature due to their low power consumption. This provides many safety and installation advantages as the risks of heat damage caused by traditional halogen lamps are completely eliminated.

Hella marine LED lamps can be installed almost anywhere onboard, directly onto timber, fabrics and lightweight composite materials.

#### No bulbs, No maintenance. Ultra long service life

Hella marine LED technology has no filaments to break, thus making the LED lamps extremely shock and vibration resistant for reliable illumination and safety.

Our engineering team has developed a unique range of highly demanding tests to lift product reliability to new standards.

#### Fully sealed for life

Each Hella marine LED lamp is a completely sealed opto-electronic device.

Proven design, precision engineering, and the use of high impact acrylic materials ensures superior resistance to water, impact, UV and general wear and tear.

#### Pre-wired with marine cable

Hella marine LED lamps are pre-wired with quality marine specification tinned cable.

The cable is completely sealed to the lamp body providing time saving at installation and reliable electrical connection.

#### Multivolt technology for durability and safety

Advanced Multivolt circuitry provides a uniform level of intensity for reliable and safe illumination across a range of DC inputs such as 8-28 volts or 9-33 volts.

Multivolt LED lamps can be connected to 12 or 24 volt systems without modification, providing full light performance and automatic compensation for low battery voltages, and voltage drop over long cables and connections. Multivolt LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.

#### Electromagnetic Compatibility (EMC)

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards.

This protects the radio, communication, navigation and other electrical equipment onboard from possible interference with our products. Where applicable, Hella marine products carry CE marking for European Union legislation, and the C-Tick mark for Australian & New Zealand requirements.

C-Tick is the Australian & New Zealand EMC compliance mark administered by the Australian Communications and Media Authority (ACMA) & Radio Spectrum Management (RSM) New Zealand, and will be transitioning to the RCM mark by 1st March, 2016. Hella marine products will remain compliant to these requirements throughout the transition period and beyond.



**LED**  
Multivolt



C-Tick








RCM





# LED Lighting Quick Reference Guide

	Series Name / Series Number	Outside Diameter	Installation Type	Cut out Diameter	Beam Angle	Peak Lux @ 1M	Peak Lux @ 2M	Power Consumption	Incandescent Equivalent*	Page No.
	Ponui 0770 & 0771	70mm	Surface	n/a	32° Spread	105 Lux White	28 Lux White	< 0.8W < 0.07A@12V	10W Halogen	70
	Tiri 0596 & 0597	60x60mm	Recess	50mm	32° Spread	105 Lux White	28 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
	Tiri 0596 & 0597	60x60mm	Recess	50mm	15° Spot	370 Lux White	92.5 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
	SpotLED 3980	75mm	Recess	50mm	13° Spot	450 Lux White	112.5 Lux White	< 2.5W < 0.21A@12V	10W Halogen	74
	Rakino 9599 & 0956	75mm	Recess	50mm	32° Spread	105 Lux White	28 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
	Rakino 9599 & 0956	75mm	Recess	50mm	15° Spot	370 Lux White	92.5 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
	EuroLED 95 0940	95mm	Recess	73mm	30° Spread	380 Lux Warm white	95 Lux Warm white	< 4.0W < 0.33A@12V	20W Halogen	76
	EuroLED 115 0820 & 0828	115mm	Recess & Surface	90mm	36° Spread	385 Lux Warm white	96 Lux Warm white	< 4.0W < 0.33A@12V	20W Halogen	78
	EuroLED 130 9820, 9950/51	130mm	Surface	n/a	32° Spread	475 Lux White	119 Lux White	4.0W 0.33A@12V	20W Halogen	82
	EuroLED 150 0630 & 0631	150mm	Recess & Surface	124mm	32° Spread	475 Lux White	119 Lux White	4.0W 0.33A@12V	20W Halogen	80
	Waiheke 0681 & 9076	250x50mm	Recess	240x40mm	26° Spot	450 Lux White	112.5 Lux White	< 2.0W < 0.17A@12V	20W Halogen	68
	Surface Mount 0881 Interior	285x25mm	Surface	n/a	42° Spread	205 Lux White	51 Lux White	< 3.0W <0.25A@12V	20W Halogen 7W Fluorescent	90
	DuraLed 12 9700 & 0704	140x65mm	Surface	n/a	120° Spread	60 Lux White	15 Lux White	< 2.5W <0.20A@12V	20W Halogen 7W Fluorescent	92
	DuraLed 20 0608	177x100mm	Surface	n/a	64° Spread	390 Lux White	97.5 Lux White	< 4.0W <0.33A@12V	20W Halogen 11W Fluorescent	94
	DuraLed 36 9037	177x100mm	Surface	n/a	64° Spread	600 Lux White	150 Lux White	< 7.0W <0.51@12V	35W Halogen 14W Fluorescent	94
	DuraLed 50 0604	220x96mm	Surface	n/a	64° Spread	780 lux White	195 Lux White	< 10.0W <0.80A@12V	50W Halogen 18W Fluorescent	94





Riviera 63 Enclosed FB [www.riviera.com.au](http://www.riviera.com.au)

## ***Welcome to the future of ultra efficient illumination***

Hella marine LED lighting products are sophisticated opto-electronic devices designed for durable, energy efficient, maintenance free operation.

Recent quantum leaps in the luminous intensity of LEDs per watt have allowed marine lighting systems to develop significantly to effectively illuminate a vessel's interior.





Quality LED lighting provides many significant advantages over traditional filament based sources. Significantly reduced power consumption, increased reliability, reduction in radiated heat and attractive ambient effects are all benefits of modern LED lighting systems. The following are key considerations when selecting LED lighting for marine interior and exterior applications.

**Power saving on board**

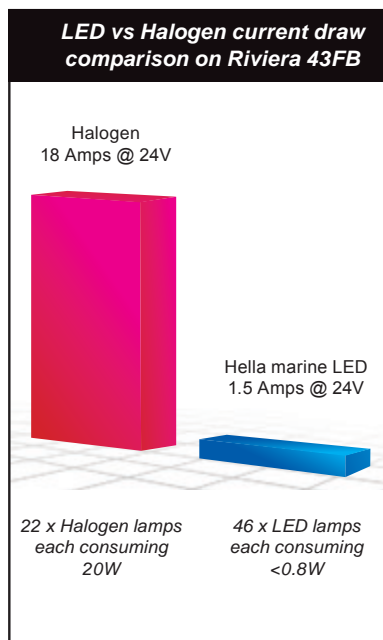
The single most influential driver for LED technology on most yachts and powerboats is the considerable power saving on offer compared to incandescent lamps. Lighting systems are a major part of a vessel's electrical architecture where consumption can be dramatically reduced. The opportunity to save hundreds of amp hours is available now.

As a recent example, the entire Hella marine LED downlighting system specified for a Riviera 43ft flybridge sportfisher draws less than 2 Amps. To illuminate the same interior layout with halogen lamps would have totalled over 18 Amps. The reduction in cable size and weight together with the safety aspects of an almost zero heat signature was also highly beneficial.

The majority of the lamps specified for the Riviera 43 system are the compact 9596 series warm white LED downlights. Each lamp consumes less than 0.8W yet produces the equivalent light output of a 10W halogen lamp. Such efficiency is class leading.

**Hella marine reliability**

Due to their solid state nature, LEDs do not have filaments to break, however LEDs do require precise current regulation and voltage protection to provide long term reliability. For LED lighting manufacturers, many design and engineering milestones are required to produce durable products that provide ongoing performance in marine applications. Hella marine LED products feature several key advantages such as completely sealed housings, sealed cable entries, effective





electronic protection, shock, vibration and impact resistant components that all contribute towards outstanding reliability. Compared to incandescent lighting, where a filament inside a bulb may break at any moment, Hella marine LED lighting is 'fit and forget'.

Many LED lamp manufacturers claim operating lifetimes of 50,000 or 100,000 hours, however in many cases these claims are generalized. The high power LED devices are often too new to have been thoroughly tested for such periods. These lifetime estimates are often based on LED component specifications from the device manufacturer rather than the life of the complete lamp in a marine installation.

In the harsh marine environment, salt air corrosion to circuit boards, light degradation due to excessive heat, vibration fatigue, shock loads, voltage fluctuations and low battery voltages all contribute to reduce the operating life of LED lamps without thorough engineering and electronic protection. The supplier's warranty policy, integrity and track record is often a more accurate benchmark on the lifetime and quality of the LED lamp under consideration.

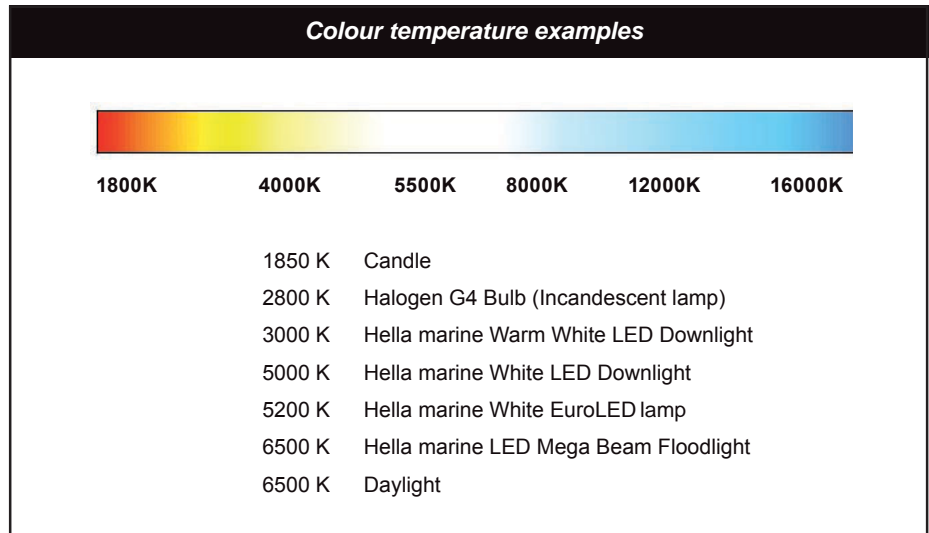
### **Colour Temperature and Rendering**

Until recently, the lack of high quality white LED devices with sufficient intensity has been the major factor preventing the acceptance of LEDs for general marine lighting purposes. LEDs had a reputation for appearing 'cold' and 'blue' due to their phosphorous coating heritage. However today's high efficacy devices can rival traditional incandescent light sources for colour and ambience.

When selecting LED interior lighting, colour temperature is an important consideration. Colour temperature is measured in Kelvin and describes the effect of heating an object until it glows incandescently. The emitted radiation, and apparent colour changes in proportion to the temperature; envisioned when considering hot metal in a forge that glows red, then orange, and then white as the temperature increases.

Hella marine describes higher colour temperatures (>5000K or more) as 'cool' white, and lower colour temperatures (<3500 K range) as 'warm white'. 'Neutral white' is in the 4200K range. Cool white is recommended for visual tasks, work areas such as engine rooms, and exterior lighting. Warm white light is suggested for interior spaces as it adds life and vibrancy to people and objects, is considered more flattering to skin tones or fabrics, and makes food look fresh and attractive.

These colour choices should only be an approximate consideration however. Cool white will accentuate blue and green hues in certain fabrics and surfaces, and where



**White light**



**Warm white light**





**Enhancing interiors with attractive colour matched illumination.**

Hella marine offers highly efficient LED lamps with colour temperatures in the warm white range of 3000K, or white range of 5000K.

Specialist LED selection and quality control ensures the colour temperature and colour rendering performance is matched across similar series. The result is a uniform colour temperature and ambience throughout a vessel when different lamps are installed.

**Warm White**

**White**



EuroLED 115  
0820 series



EuroLED 115  
0820 series



EuroLED 95  
0940 series



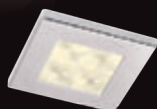
EuroLED 95  
0940 series



Rakino  
0956 series



Rakino  
0959 series



Tiri  
0957 series



Tiri  
0956 series



Ponui  
0771 series



Ponui  
0770 series



Waiheke  
0681 series



Waiheke  
0681 series



Oblong  
9680 series



Oblong  
9680 series



Easy Fit  
8560 series



Easy Fit  
8560 series

there are stainless steel or gel coat surfaces. Lighting designers may specify cool white for galley areas and warm white where there is an abundance of varnished timber work instead of high gloss gel coat surfaces.

**Light Output**

For an effective comparison of the different products from marine LED manufacturers, many factors must be considered. The best lamp for a given application is no longer the one that solely meets a style requirement. Today, power consumption, efficiency, output and beam angle must be considered together with light colour, shape, and the aesthetics and finish of the housing itself.

The following performance data is worth considering -

**Luminous Flux**

Measured in Lumens (lm), luminous flux describes the total quantity of light produced from a lamp. The higher the lumen count, the more intense the light output.

**Luminous intensity**

Measured in Candela (cd), luminous intensity is the luminous flux at a particular angle from the light source. Peak candela occurs at 0 degrees, i.e. directly below a lamp.

**Illuminance**

Measured in Lux (lx), Illuminance is equal to luminous flux divided by the illuminated area. One lux is equal to one lumen per square meter.

$$\text{Luminous Flux (Lumens) / Area} = \text{Illuminance (Lux)}$$

or

$$\text{Illuminance (Lux) x Area} = \text{Luminous Flux (Lumens)}$$

If both the area to be illuminated and the desired level of illumination are known, the total number of lumens required can be calculated. Divide the total lumens by the output of the LED lamp under consideration to determine the number of fixtures required to deliver the desired light output.

*E.g., A powerboat salon of 10 square meters and the desired illumination level is 120 Lux, a total of 1200 lumens are required.*

If the LED lamp under consideration has a luminous flux of 80 lumens, 15 lamps will be required (1200 / 80 = 15).

For further comparisons it is also important to consider the beam angle of an LED lamp, and the lux levels available at varying distances from the device. Narrow light beams may provide effective intensity directly under the fitting, but may not evenly illuminate an interior as the light may be too narrow with many shadows between effectively lit areas.



## Hella marine Light Performance Diagrams

No formula exists for lighting designers to directly correlate the luminous flux of the LED component used or the power consumption of the LED device to the performance of the entire LED luminaire. While the lumen output of the LED does describe how much luminous flux is generated, it does not indicate how effectively that light is distributed. The Hella marine light performance diagrams show output and spread in two formats. The Candela curves show peak candela across a range of angles and illustrate the light pattern and peak intensity according to the scale used. (A uniform scale for all diagrams is used to aid product comparisons)

The Lux charts show the spread of light, calculated first from the candela curve by determining the angle where half of the peak candela output occurs.



*In Fig 1 below, peak candela is 385cd (measured at 0 degrees). Half of this output (192.5cd) occurs at +/- 18.0 degrees, thus the lamp has a spread of 36 degrees. While there will be light beyond these angles, the majority of light will be occur inside the range shown.*

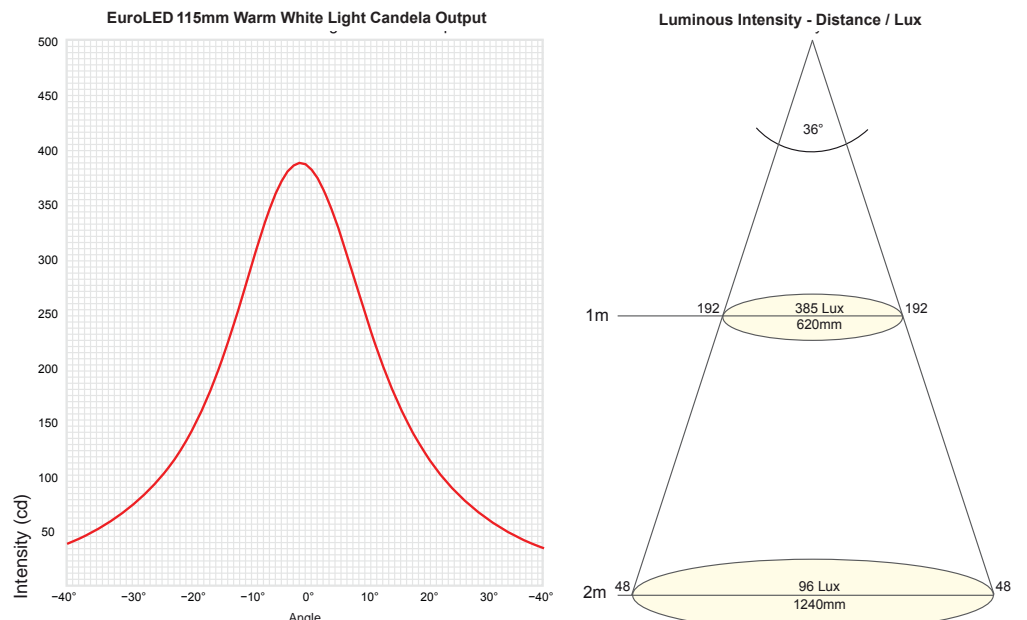
*The lux data shows how much light is cast upon a surface at a given distance.*

*The diagrams indicate peak lux (at 0 degrees), lux at the specified angle and the approximate length of surface area that will be illuminated inside the range shown.*

### Recommended Lux Values

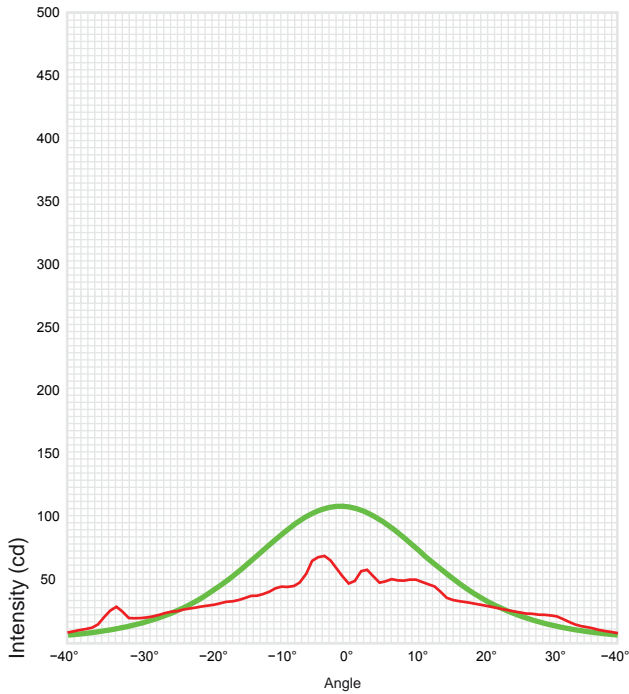
Area	Lux
Engine room	200-250
Galley surfaces	150-250
Heads	150-200
Salon	100-150
Companionway	70-100
Cabins	70-100
Flybridge	70-100
Cockpit	70-100

**Fig 1. Hella marine EuroLED 115 series Warm White LED Downlight Candela and Lux performance**





**Hella marine Rakino series LED downlight (Spread)  
Compared to 8508 series halogen downlight.**



**LED Downlight**  
Power consumption  
0.8 Watts



**Halogen Downlight**  
Power consumption  
10 watts



Southstar 37 [www.salthouseboats.com](http://www.salthouseboats.com)

**Efficacy**

Like efficiency, the efficacy of an LED lamp is the amount of light it produces per unit of electrical power it consumes (lumens per watt). The higher the lumens per watt, the higher the efficiency.

*E.g. A single Hella marine 9599 series white LED downlight consumes less than 0.8W and produces around 80 lumens.  $80 / 0.8 = 100$  lumens per watt.*

It may also be an interesting comparison to divide the luminous flux of a lamp by its cost to derive lumens per dollar. The more lumens per dollar (*flux per bucks*), the more light for your investment.

Also, it is important to determine that the efficacy of the LED lamp is measured as the device's total efficacy, not the efficacy of only the LED(s) employed. Power consumed to run an electronic power supply driving and controlling the LED(s) is always a contributor to the lamp's total consumption.

**Heat reduction and thermal management**

With the power saving benefits of efficient LED based devices also comes heat reduction benefits. The sometimes dangerously high temperatures of 10W and 20W halogen lamps onboard can be eliminated with high efficiency LED technology. This allows boat builders and designers a wide scope of installation possibilities where the air cavity behind incandescent lamps, traditionally reserved for cooling, is no longer required. Efficient LED lamps can be mounted into solid surfaces and composite structures without risk of fire or heat damage to surrounding materials.

Well engineered thermal management of an LED device is essential for long-term durability. A common misconception is that LED's do not generate heat. LEDs consume power and some of this power is also converted into heat, even in the most energy efficient LEDs. In contrast to incandescent lamps however LED's like to 'run cold'. As a rule of thumb, the hotter an LED runs the faster it will degrade. A lower, and in extreme cases much lower light performance will result.

High performance LED's do generate heat, which needs to be coupled to surfaces designed to efficiently transport the heat away from the LED itself. LEDs that overheat, meaning the junction temperature of the LED rises above a set threshold, will permanently degrade and significantly reduce their luminous efficacy.

***A noticeably 'hot to touch' exterior surface of a high output LED interior lamp provides some indication that the light output of the device will deteriorate within a few hundred hours. Hella marine LED lamps will operate 'cool' or 'slightly warm' to the touch after many hours of operation.***







Riviera 43FB [www.riviera.com.au](http://www.riviera.com.au)

**EuroLED series  
Lens and Optic engineering**

Precision engineered lens and optic combinations on powerful single LED lamps such as the 0630 and 0631 series EuroLED lamps are essential for efficient performance. The optics work to efficiently capture and distribute light from a highly intense single point source and provide a wide and uniform light pattern without glare or eye discomfort.



Hella marine thermal management expertise, coupled with proven optics and electronic design, ensures the long term durability with minimal degradation over many years of service.

**Lens and Optic Technology**

To maximise the ever increasing efficacy of advanced LEDs, efficient optic design is essential to capture and spread the available light and to evenly illuminate areas on board.

Unlike incandescent light sources, LED devices begin with a directional light pattern. The goal for optics designers, working an application such as interior down lighting, is to create optics and lens patterns that produce an effective spread of homogeneous illumination throughout the interior. This even spread of light is often more important than how intense a lamp looks when viewed straight on.

All Hella marine LED lamps use efficient optics, lens designs or Free-Form reflector technology to accurately capture and distribute large percentages of available light from the LED source(s).

Examples include:

- Oblong LED step lamps with a 30 degree down angle light beam to illuminate the tread of steps and stairs without dazzle from the lamps themselves.
- Round and Square LED courtesy lamps providing attractive uniform light patterns via an efficient optic and lens with embedded glass spheres for minimum light losses.



Tiara 4200 [www.tiarayachts.com](http://www.tiarayachts.com)



- EuroLED lamps employ an finely machined optic and lens combination to provide an even spread of bright white light with minimum light losses.
- 9599 series LED downlights with powerful 'Spot' or 'Spread' light distribution patterns without glare.

**Lens, Optic Technology and Eye Safety**

To take advantage of the ever increasing efficacy of the most advanced LEDs, efficient optic design is essential to capture and spread the available luminous flux emitted by the LED and to evenly illuminate areas.

With significant advances of LED brightness, eye safety considerations are increasingly important. It is essential for high power LEDs to be coupled with optic designs that protect the eye's retina from possible damage when viewed directly.

It is desirable for the entire lens area of a lamp to be evenly illuminated via an efficient optic rather than using a multiple of LEDs without any optic. Easily visible LEDs inside a luminaire without any optic or lens protection can cause a degree or even significant eye discomfort if viewed directly.

**Costs**

Quality LED interior and exterior lamps have shifted lighting systems from an incandescent globe based inside a housing or reflector to complex engineered optoelectronics devices. These devices now incorporate advanced drive circuits, spike and over voltage protection, optics, lenses, plus the LED source itself. As a result, the added features and benefits of effective LED lighting do carry higher costs compared to incandescent lamps. However, for many applications the substantial power savings, long term reliability and improved safety advantages are a convincing value proposition for astute owners and operators.



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**Night Vision  
- Why red light does not affect our night vision.**

The human eye contains two types of receptors, the rods and the cones. Rods and cones have an increased sensitivity to frequency bands at different ends of the visual spectrum. Rods are largely responsible for our day time and colour vision and have an increased sensitivity towards the red band of the visual spectrum. Cones are responsible for our night vision capability and have an increased sensitivity towards the blue, shorter wavelength band of the visual spectrum. For this reason red light will not affect the sensitivity of the cones and with that our night vision is not affected by the use of red light in the cabin.

New Zealand Coastguard Rayglass Protector 850 [www.rayglass.co.nz](http://www.rayglass.co.nz)

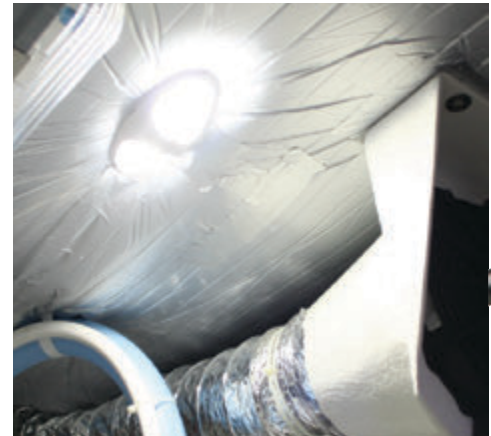




*The Hella marine Advantage  
'Fit and Forget' LED Reliability.*

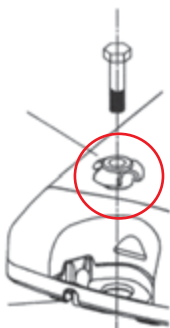
**Hella marine heavy duty lamps.**

Efficient and reliable LED lighting for engine rooms, machinery spaces, anchor lockers, storage areas, decks and more. Advanced optic and lens combinations provide wide spread illumination supported by sophisticated electronic protection and robust, completely sealed housings. Hella marine LED products are the proven 'Fit and Forget' choice for illuminating commercial and recreational vessels.



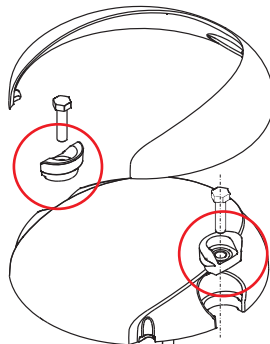
**DuraLed and EuroLED 130 series design and installation**

Purpose designed for surface mount installations, heavy duty fastening load is taken up by pairs of robust nylon bushes to eliminate possible stress on lamp housings.



DuraLED

Completely sealed housings with robust mounting system.



EuroLED



# Flexi-spot

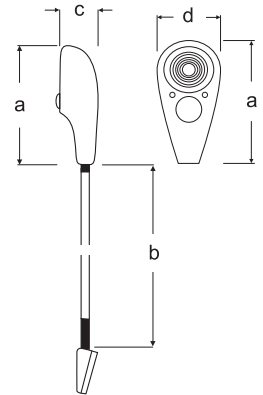


## Energy saving chart table lighting for interior applications

Energy efficient lighting for a variety of interior applications including chart table and navigation area lighting, berth lighting and adjustable reading lights. Available in single red or white LED light or dual colour red and white LED versions with integrated dimming via a rotary switch built into the head.



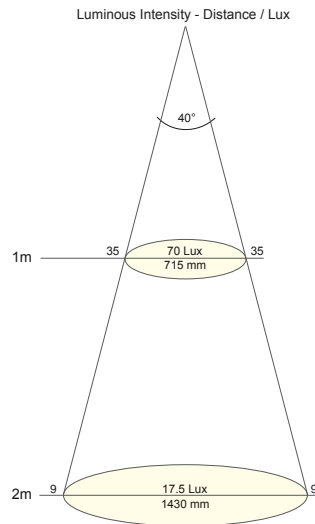
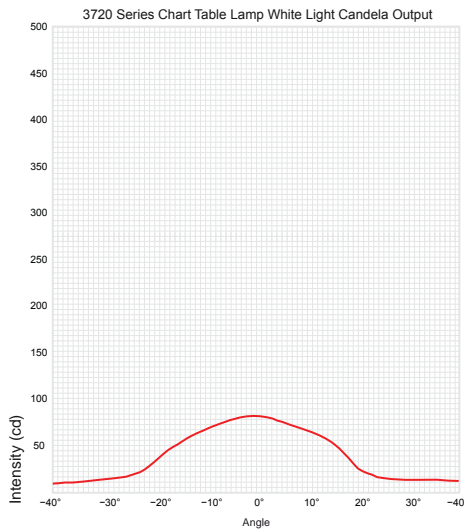
<b>Housing Description</b>	UV and impact resistant plastic
<b>Arm material</b>	Single colour - Coated steel arm Dual colour red/white - 316 stainless steel arm
<b>Cable</b>	Pre-wired with 120mm of twin core cable
<b>Operating Voltage</b>	Multivolt 9-31V DC
<b>Power Consumption</b>	< 2W ( <0.16A@12V / <0.08A@24V )
<b>Degree of Protection</b>	IP 53
<b>Weight</b>	150mm - 130g (including cable) 400mm - 230g (including cable)
<b>Approvals</b>	CE



**Dimensions**

a =	104mm / 4.09"
b =	150mm / 5.91"
	400mm / 15.75"
c =	36mm / 1.42"
d =	46mm / 1.81"

### 3720 Series Chart Table Candela and Lux performance. White light.



Dual colour LED chart table lamps feature a rotary dial for on/off red/white light control and dimming.



Packaging for aftermarket presentation

		<b>White / Red Light Chart Table LED Lamps</b>		
		<b>Shaft Length</b>	<b>Black Cover</b>	
		6" / 150 mm	2JA 343 720-522	
		16" / 400 mm	2JA 343 720-622	
		<b>White Light Chart Table LED Lamps</b>		
		<b>Shaft Length</b>	<b>Black Cover</b>	<b>White Cover</b>
		6" / 150 mm	2JA 343 720-022	2JA 343 720-012
		16" / 400 mm	2JA 343 720-122	2JA 343 720-112
		<b>Red Light Chart Table LED Lamps</b>		
		<b>Shaft Length</b>	<b>Black Cover</b>	<b>White Cover</b>
		6" / 150 mm	2JA 343 720-052	2JA 343 720-042
		16" / 400 mm	2JA 343 720-152	2JA 343 720-142

# Waiheke



Elegant LED strip lamps offering class leading efficiency and various rim options



X-50 [www.x-yachts.com](http://www.x-yachts.com)

Completely sealed lighting ideal for a variety of applications, from interior downlighting to cockpit illumination.

Power consumption is very low at less than 2.0W (<0.17A@12V / <0.08A@24V) offering substantial energy saving compared to incandescent lighting. The surface temperature is very cool due to the low current draw.

All Waiheke lamps provide comfortable colour temperatures in white and warm white with excellent colour rendering performance. The light colour matches an equivalent Hella marine Rakino series LED downlight for consistent illumination and coordinated ambience throughout a vessel.

500mm of marine cable is pre-wired into each lamp for absolute water tightness and reliable electrical connections.

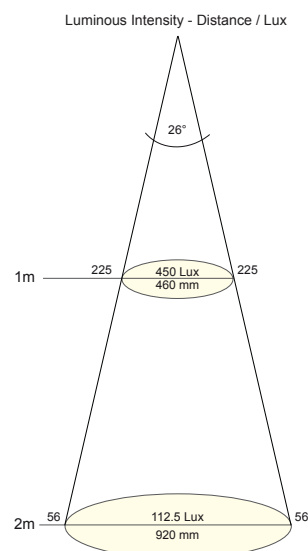
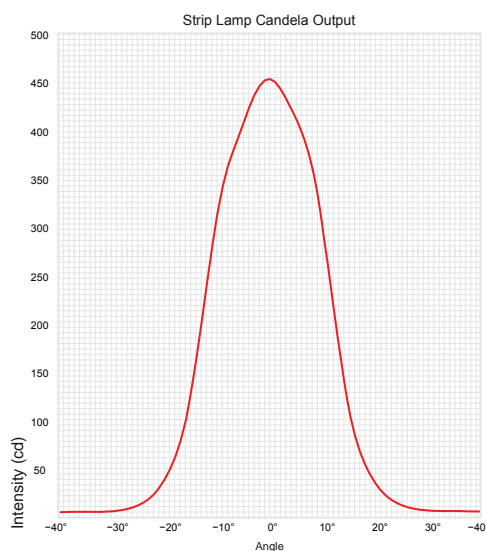


- Completely sealed housing
- Pre-wired with marine cable



316 stainless steel versions feature a unique internal tab lock for secure attachment without visible fastenings.

## Waiheke Candela and Lux performance. White light.





Packaging for aftermarket presentation

<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Colour Temperature</b>	5000K (White) 3000K (Warm White)
<b>Dimming</b>	Hella marine Dimmer 5XA 998 572-001
<b>Cable</b>	Pre-wired with 500mm of twin core marine cable
<b>Operating Voltage</b>	12V DC or 24V DC
<b>Power Consumption</b>	< 2.0W ( <0.17A@12V / <0.08A@24V )
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Mounting</b>	Stainless steel screws included
<b>Weight</b>	Stainless rim versions - 165g (including cable) Wide rim versions - 100g (including cable) No rim versions - 85g (including cable)



**Dimensions:**  
a = 250mm / 9.84"  
b = 50.0mm / 1.97"  
c = 218mm / 8.58"  
d = 28.0mm / 1.10"  
e = 20.0mm / 0.79"  
f = 6.0mm / 0.24"

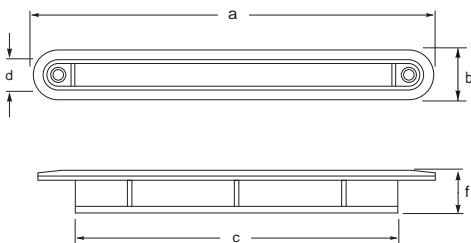
### 0681 Series 316 Stainless Steel Rim lamps

#### Multi purpose White LED Lamps

Voltage	Rim Type / Finish	Part Number
12V DC	Wide / Stainless Rim	2JA 980 681-001
24V DC	Wide / Stainless Rim	2JA 980 681-501

#### Multi purpose Warm White LED Strip Lamps

Voltage	Rim Type / Finish	Part Number
12V DC	Wide / Stainless Rim	2JA 980 681-101
24V DC	Wide / Stainless Rim	2JA 980 681-601



**Dimensions:**  
a = 265mm / 10.43"  
b = 33.0mm / 1.33"  
c = 218mm / 8.58"  
d = 20.0mm / 0.79"  
e = 25.5mm / 1.00"  
f = 29.0mm / 1.14"

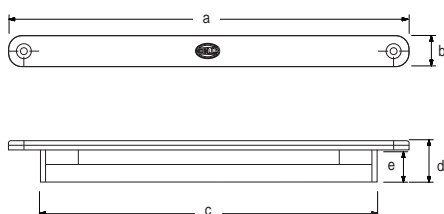
### 9076 Series Wide Rim lamps

#### Multi purpose White LED Strip Lamps

Voltage	Rim Type	Part Number
12V DC	Wide (Gasket included)	2JA 959 076-511
24V DC	Wide (Gasket included)	2JA 959 076-611

#### Multi purpose Warm White LED Strip Lamps

Voltage	Rim Type	Part Number
12V DC	Wide (Gasket included)	2JA 959 076-561
24V DC	Wide (Gasket included)	2JA 959 076-651



**Dimensions:**  
a = 257mm / 10.12"  
b = 20.0mm / 0.79"  
c = 218mm / 8.58"  
d = 26.0mm / 1.02"  
e = 20.0mm / 0.79"

### 0681 Series No Rim lamps

#### Multi purpose White LED Strip Lamps

Voltage	Rim Type	Part Number
12V DC	No Rim (No gasket)	2JA 980 681-051
24V DC	No Rim (No gasket)	2JA 980 681-551

#### Multi purpose Warm White LED Strip Lamps

Voltage	Rim Type	Part Number
12V DC	No Rim (No gasket)	2JA 980 681-151
24V DC	No Rim (No gasket)	2JA 980 681-651





# Ponui



## Quality brass reading lamps with efficient LED technology and timeless styling

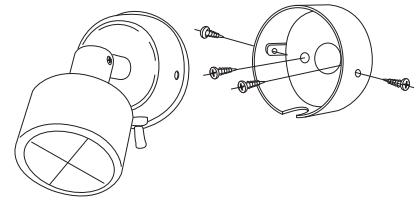
Timeless brass housings combine with energy efficient Hella marine LED technology in a range of attractive and 'cool to touch' reading lamps.

Power consumption is less than 0.8W per lamp. (<0.07A@12V / <0.03A@24V) Hella marine optics provide a uniform distribution of light without glare or eye strain.

A further benefit of the low power consumption is the 'cool to touch' lamp surface, effectively reducing the risks associated with high temperature incandescent reading lamps on board.

The light colour exactly matches an equivalent Hella marine Rakino or Waiheke series LED lamp for consistent illumination and coordinated ambience throughout a vessel.

Surface finish options include bright chrome, satin nickel chrome or gold plated brass. The brass arm and knuckle offers adjustable swing and pitch to achieve optimum light angles.

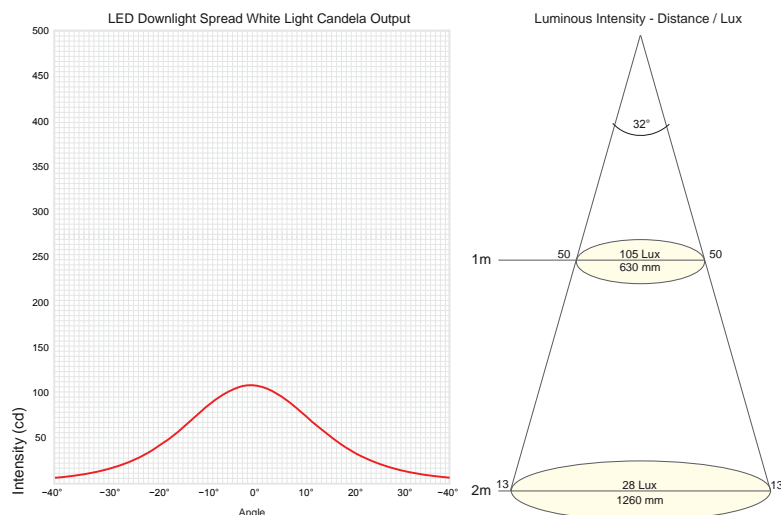


- Bulkhead mount via plastic mounting cup
- Lamp is pre-wired with marine cable

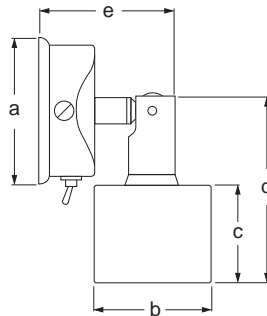


Riviera 43FB [www.riviera.com.au](http://www.riviera.com.au)

### LED Reading Lamp Candela and Lux performance. White light.



<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Lamp Body Material</b>	Brass
<b>Lamp Body Surface Finish</b>	Bright Chrome, Satin Nickle Chrome or Gold Plated
<b>Colour Temperature</b>	5000K (White) / 3000K (Warm White)
<b>Dimming</b>	Dimmed via Hella marine 2 Group Dimmer 5XA 998 572-001
<b>Cable</b>	Pre-wired with single core marine cable.
<b>Operating Voltage</b>	12V DC or 24V DC
<b>Power Consumption</b>	< 0.8W ( <0.07A@12V / <0.03A@24V )
<b>Degree of Protection</b>	Completely sealed light engine
<b>Weight</b>	250g (including cable)



**Dimensions:**

- a = 70 mm / 2.76"
- b = 55 mm / 2.17"
- c = 36 mm / 1.42"
- d = 75 mm / 2.95"
- e = 65 mm / 2.56"



# Ponui

## 0770 Series Reading Lamps

### White Light LED Reading Lamps with Switch

Voltag	Surface Finish & Material	Part Number
12V DC	Bright Chrome Brass	2JA 980 770-201
12V DC	Satin Chrome Brass	2JA 980 770-211
12V DC	Gold Plated Brass	2JA 980 770-221
24V DC	Bright Chrome Brass	2JA 980 770-301
24V DC	Satin Chrome Brass	2JA 980 770-311
24V DC	Gold Plated Brass	2JA 980 770-321



## 0771 Series Reading Lamps

### Warm White Light LED Reading Lamps with Switch

Voltag	Surface Finish & Material	Part Number
12V DC	Bright Chrome Brass	2JA 980 771-201
12V DC	Satin Chrome Brass	2JA 980 771-211
12V DC	Gold Plated Brass	2JA 980 771-221
24V DC	Bright Chrome Brass	2JA 980 771-301
24V DC	Satin Chrome Brass	2JA 980 771-311
24V DC	Gold Plated Brass	2JA 980 771-321



# Rakino



# Tiri



## Compact LED downlights offering class leading efficiency and reliability



Formula Icon 54 [www.formulacruisers.co.nz](http://www.formulacruisers.co.nz)

**Completely sealed with an ultra low power consumption of less than 0.8W, Hella marine Rakino and Tiri series LED downlights offer class leading efficiency and highly effective illumination.**

The lamps also run very cool due to their low current draw to provide substantial power saving benefits compared to incandescent lighting.

Advanced Hella marine lens and optic designs provide intense light without glare or eye strain. Two beam angle options are available, a 15° Spot or 32° Spread beam.

The Spot lamp (Peak light angle at 15°) is ideal for installations where the first surface requiring illumination is 1 meter or more from the lamp. Spread lamps (Peak light angle at 32°) are ideal for softer light where the first surface to be illuminated is less than 1 meter from the lamp.

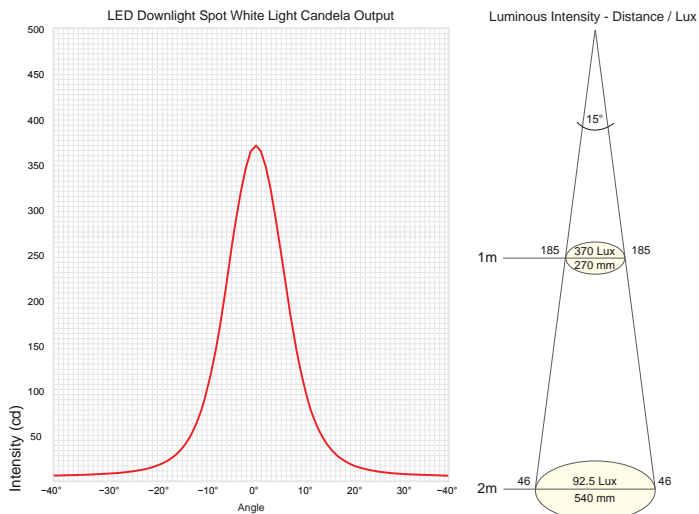
Each lamp is completely sealed and can be installed almost anywhere on board, interior or exterior, wet or dry. The ultra low heat signature will not cause damage to surrounding materials.

Available in 12V or 24V DC versions, these LED lamps can be dimmed and controlled with the Hella marine Dimmer (5XA 998 572-001).

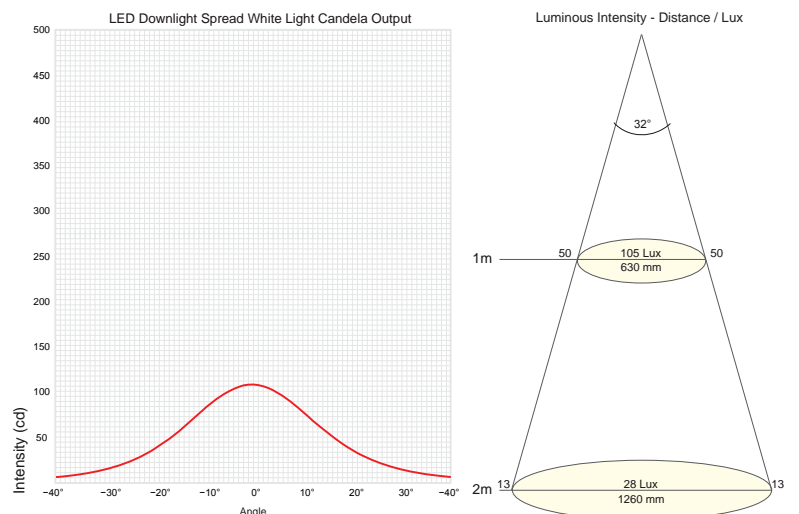


- Completely sealed housing
- Pre-wired with marine cable

### LED Downlight Candela and Lux performance. White light. Spot.



### LED Downlight Candela and Lux performance. White light. Spread.



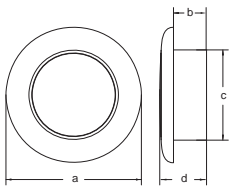




Packaging for aftermarket presentation

<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Rim Material</b>	UV resistant plastic. 316 stainless steel (Round lamps only)
<b>Colour Temperature</b>	5000K (White) / 3000K (Warm White)
<b>Dimming</b>	Dimmed via Hella marine Dimmer 5XA 998 572-001
<b>Cable</b>	Pre-wired with 120mm of single core marine cable
<b>Operating Voltage</b>	12V DC or 24V DC
<b>Power Consumption</b>	< 0.8W ( <0.07A@12V / <0.03A@24V )
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Mounting</b>	Stainless steel screws included
<b>Weight</b>	45g (including cable)

# Rakino



### Dimensions

- a = 75.0 mm / 2.95" with plastic rim  
72.0 mm / 2.83" with stainless steel rim
- b = 18.5 mm / 0.73"
- c = 50.0 mm / 1.97"
- d = 27.0 mm / 1.06"

### Spread Pattern

#### White Light LED Downlights - Spread

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2JA 959 599-051
12V DC	White plastic rim	2JA 959 599-001
24V DC	Polished stainless rim	2JA 959 599-151
24V DC	White plastic rim	2JA 959 599-101

#### Warm White Light LED Downlights - Spread

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2JA 959 596-051
12V DC	White plastic rim	2JA 959 596-001
24V DC	Polished stainless rim	2JA 959 596-151
24V DC	White plastic rim	2JA 959 596-101

#### Red Light LED Courtesy Lamps - Spread

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2XT 980 507-371
12V DC	White plastic rim	2XT 980 507-381
24V DC	Polished stainless rim	2XT 980 508-301
24V DC	White plastic rim	2XT 980 508-321



### Spot Pattern

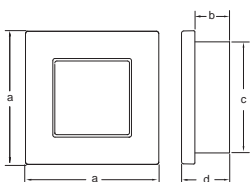
#### White Light LED Downlights - Spot

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2JA 959 599-551
12V DC	White plastic rim	2JA 959 599-501
24V DC	Polished stainless rim	2JA 959 599-651
24V DC	White plastic rim	2JA 959 599-601

#### Warm White Light LED Downlights - Spot

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2JA 959 596-551
12V DC	White plastic rim	2JA 959 596-501
24V DC	Polished stainless rim	2JA 959 596-651
24V DC	White plastic rim	2JA 959 596-601

# Jiri



### Dimensions

- a = 60.0 mm / 2.36"
- b = 16.0 mm / 0.63"
- c = 50.0 mm / 1.97"
- d = 22.0mm / 0.87"

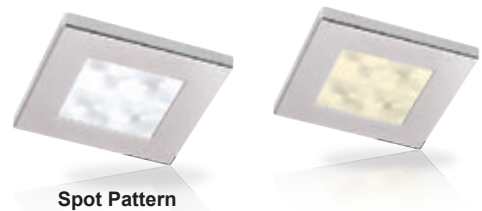
### Spread Pattern

#### White Light LED Downlights - Spread

Voltage	Rim Finish	Part Number
12V DC	Chrome plated rim	2JA 980 596-031
12V DC	White plastic rim	2JA 980 596-001
24V DC	Chrome plated rim	2JA 980 596-131
24V DC	White plastic rim	2JA 980 596-101

#### Warm White Light LED Downlights - Spread

Voltage	Rim Finish	Part Number
12V DC	Chrome plated rim	2JA 980 597-031
12V DC	White plastic rim	2JA 980 597-001
24V DC	Chrome plated rim	2JA 980 597-131
24V DC	White plastic rim	2JA 980 597-101



### Spot Pattern

#### White Light LED Downlights - Spot

Voltage	Rim Finish	Part Number
12V DC	Chrome plated rim	2JA 980 596-531
12V DC	White plastic rim	2JA 980 596-501
24V DC	Chrome plated rim	2JA 980 596-631
24V DC	White plastic rim	2JA 980 596-601

#### Warm White Light LED Downlights - Spot

Voltage	Rim Finish	Part Number
12V DC	Chrome plated rim	2JA 980 597-531
12V DC	White plastic rim	2JA 980 597-501
24V DC	Chrome plated rim	2JA 980 597-631
24V DC	White plastic rim	2JA 980 597-601

# Dual Colour SpotLED



Energy saving LED spot lamps featuring an innovative ring of ambient light.



Riviera 43FB Sportfisher [www.riviera.com.au](http://www.riviera.com.au)

Switching between the SpotLED's white light main beam or the ambient colour ring offers a unique illumination option.

Consumption is less than 2.5W (<0.18A@12V), offering more than 75% power saving compared to a 10W G4 halogen lamp.

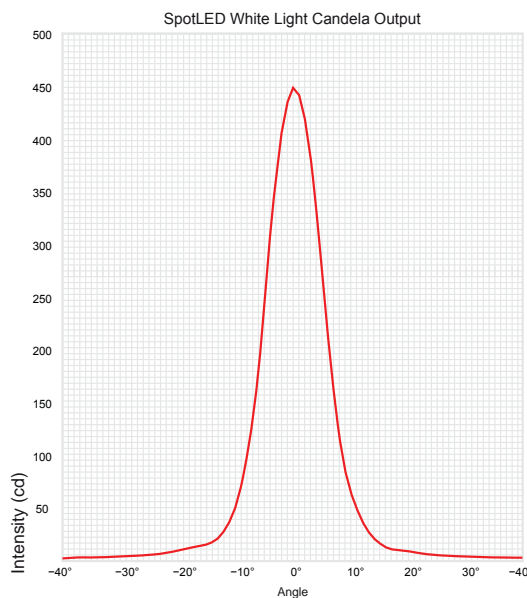
Each lamp features an outer ring of red, white or blue LED light providing additional ambient illumination. The ambient function consumes less than 0.5W and is switched independently. Multivolt electronics provide consistent illumination and circuit protection across a range of inputs from 9-31V DC.

Completely sealed, shock and vibration resistant, Hella marine LED lamps provide outstanding reliability as there are no filaments to break. The surface is cool to the touch so will not cause damage to surrounding materials.

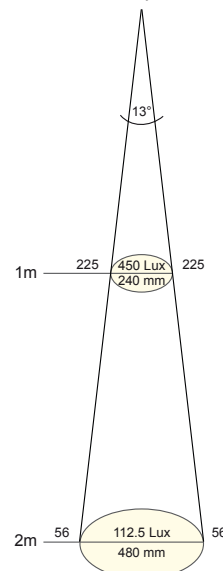


- Completely sealed housing
- Pre-wired with triple core cable

## SpotLED Candela and Lux performance. White light.



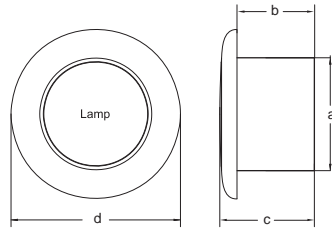
Luminous Intensity - Distance / Lux





Packaging for aftermarket presentation

<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Rim Material</b>	UV resistant plastic. 316 stainless steel
<b>Colour Temperature</b>	6000K (White)
<b>Cable</b>	Pre-wired with 200mm of triple core cable
<b>Operating Voltage</b>	Multivolt 9-31V DC
<b>Power Consumption</b>	White Spot Light < 2.5W ( <0.21A@12V / <0.03A@24V ) Ambient Light Ring < 0.5W ( <0.07A@12V / <0.03A@24V )
<b>Degree of Protection</b>	IP 6K 9K
<b>Mounting</b>	Stainless steel screws included
<b>Weight</b>	75g (including cable)
<b>Approvals</b>	CE



**Dimensions**

- a = 50.0 mm / 1.97"
- b = 34.0 mm / 1.34"
- c = 41.0 mm / 1.61"
- d = 75.0 mm / 2.95" with plastic rim  
72.0 mm / 2.83" with stainless steel rim

**Dual Colour SpotLED**



**White Light LED Spot Lamps - Blue Ambient Ring**

Voltage	Rim Finish	Part Number
9-31V DC	Satin stainless steel rim	2JA 343 980-162
9-31V DC	Polished stainless steel rim	2JA 343 980-152
9-31V DC	Gold stainless steel rim	2JA 343 980-142
9-31V DC	White plastic rim	2JA 343 980-102
9-31V DC	Black plastic rim	2JA 343 980-112



Blue Ambient Ring



White Spot



**White Light LED Spot Lamps - Red Ambient Ring**

Voltage	Rim Finish	Part Number
9-31V DC	Satin stainless steel rim	2JA 343 980-062
9-31V DC	Polished stainless steel rim	2JA 343 980-052
9-31V DC	Gold stainless steel rim	2JA 343 980-042
9-31V DC	White plastic rim	2JA 343 980-002
9-31V DC	Black plastic rim	2JA 343 980-012



Red Ambient Ring



White Spot



**White Light LED Spot Lamps - White Ambient Ring**

Voltage	Rim Finish	Part Number
9-31V DC	Satin stainless steel rim	2JA 343 980-262
9-31V DC	Polished stainless steel rim	2JA 343 980-252
9-31V DC	Gold stainless steel rim	2JA 343 980-242
9-31V DC	White plastic rim	2JA 343 980-202
9-31V DC	Black plastic rim	2JA 343 980-212



White Ambient Ring



White Spot



# EuroLED 95



Energy efficient LED downlights providing exceptional light output and screw or spring clip mounting options



Riviera 56FB [www.riviera.com.au](http://www.riviera.com.au)

Hella marine 95mm LED downlights harness state of the art LED technology to provide illumination comparable to 20W incandescent lamps for a fraction of the power consumption.

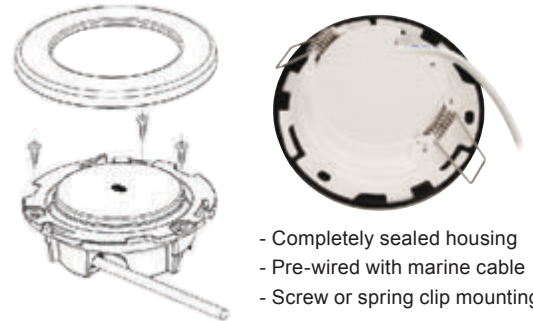
Completely sealed for interior and exterior installations, wet or dry, EuroLED 95mm lamps are the durable choice with class leading efficiency.

Power consumption is less than 4.0W (<0.33A@12V / <0.17A@24V) offering significant reductions in energy use and heat generation when compared to incandescent lighting.

Advanced Hella marine optic engineering provides a wide spread of uniform illumination without glare or eye strain. Precise LED selection ensures class leading colour rendering with interior enhancing colour temperatures in white (5000K) or warm white (3000K).

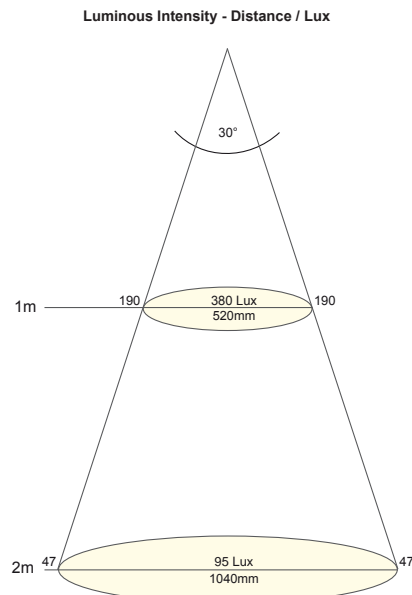
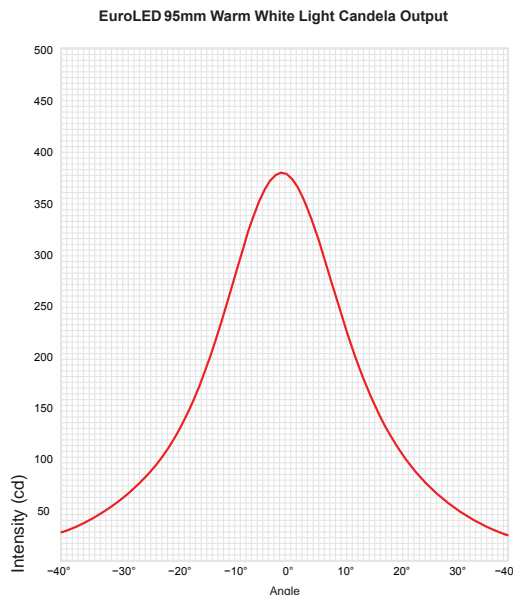
EuroLED 95mm lamps require no remote drivers or control wires, simply connect the positive and negative cables to 12V or 24V DC systems. Each lamp operates on an input voltage between 10-33V DC and can also be PWM dimmed and controlled via the Hella marine Dimmer (5XA 998 572-001).

EuroLED downlights offer class leading 'fit and forget' Hella marine technology with impressive illumination.

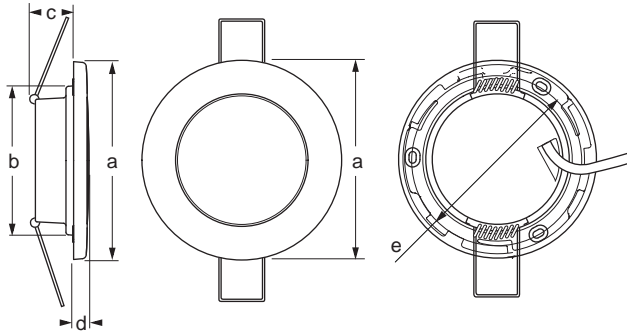


- Completely sealed housing
- Pre-wired with marine cable
- Screw or spring clip mounting

## LED Downlight Candela and Lux performance. Warm White light.



<b>Lens material</b>	UV resistant enhanced impact acrylic
<b>Rim material</b>	UV resistant plastic. 316 stainless steel.
<b>Colour Temperature</b>	5000K (White) 3000K (Warm White)
<b>Dimming</b>	PWM. e.g. Via Hella marine 5XA 998 572-001
<b>Cable</b>	Pre-wired with 500mm twin core marine cable.
<b>Operating Voltage</b>	10-33V DC
<b>Power Consumption</b>	< 4.0W ( <0.33A@12V / <0.17A@24V )
<b>Degree of Protection</b>	Completely sealed
<b>Weight</b>	145g (Screw mount version, including cable)
<b>Installation</b>	Recess mount. Screw or Spring Clip options.
<b>Approvals</b>	CE, C-Tick



**Dimensions**

- a = 95.0 mm / 3.75" with plastic rim  
97.0 mm / 3.82" with stainless steel rim
- b = 72.0 mm / 2.84"
- c = 25.0mm / 0.98" with screw mounting  
28.0 mm / 1.10" with spring clips
- d = 9.0mm / 0.35"
- e = 82.0mm / 3.23" PCD

# EuroLED 95

**Screw Mount**



**White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 940-001
10-33V DC	Polished stainless steel rim	2JA 980 940-011



**Warm White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 940-101
10-33V DC	Polished stainless steel rim	2JA 980 940-111



**Spring Clip Mount**



**White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 940-201
10-33V DC	Polished stainless steel rim	2JA 980 940-211



**Warm White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 940-301
10-33V DC	Polished stainless steel rim	2JA 980 940-311



# EuroLED

— 115 —



Energy efficient LED downlights include spacer ring and switch options for versatility



Belize 52 [www.belizemotoryachts.com.au](http://www.belizemotoryachts.com.au)

Completely sealed 115mm downlights feature a wide spread of illumination with class leading colour rendering and interior enhancing colour temperatures in white or warm white.

Power consumption is less than 4.0W (<0.33A@12V / <0.17A@24V) offering illumination comparable to 20W halogen lighting with substantial power saving and heat reduction.

Sophisticated lens and optic designs provide intense white light without glare or eye strain. Peak beam angle is a wide 36° and the light pattern is very uniform.

EuroLED 115mm lamps require no remote drivers or control wires, simply connect the positive and negative cables to 12V or 24V DC systems. Each lamp operates on an input voltage between 10-33V DC and can also be PWM dimmed and controlled via the Hella marine Dimmer (5XA 998 572-001).

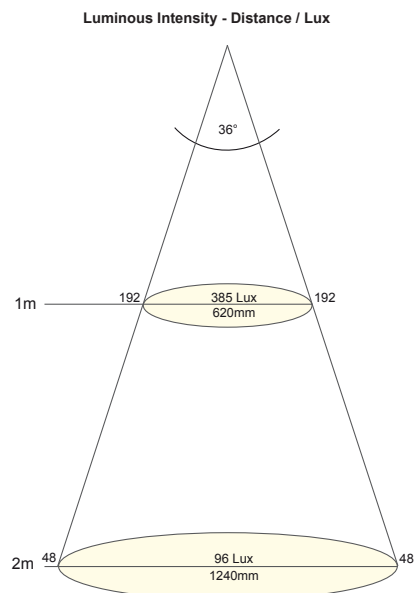
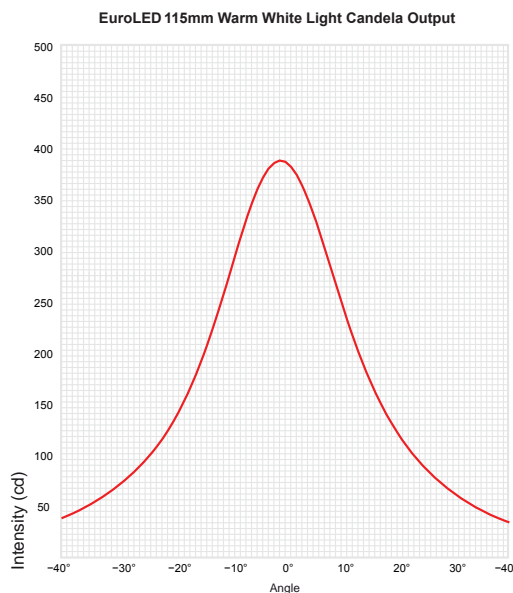
Pre-wired with quality twin core marine tinned cable, each lamp is completely sealed and features a shallow 22mm mounting depth. EuroLED lamps can be installed almost anywhere on board, interior or exterior, wet or dry. The low heat signature will not cause damage to surrounding materials.

EuroLED downlights offer class leading 'fit and forget' Hella marine technology with impressive illumination.



- Completely sealed housing
- Pre-wired with marine cable

## LED Downlight Candela and Lux performance. Warm White light.

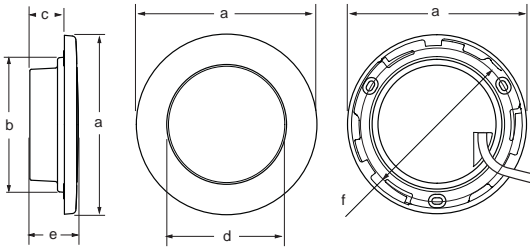




<b>Lens material</b>	UV resistant enhanced impact acrylic
<b>Rim material</b>	UV resistant plastic. 316 stainless steel.
<b>Colour Temperature</b>	5000K (White) 3000K (Warm White)
<b>Dimming</b>	PWM. eg Via Hella marine 5XA 998 572-001
<b>Cable</b>	Pre-wired with 500mm twin core marine cable.
<b>Operating Voltage</b>	10-33V DC
<b>Power Consumption</b>	< 4.0W ( <0.33A@12V / <0.17A@24V )
<b>Degree of Protection</b>	Completely sealed
<b>Weight</b>	170g (including cable)
<b>Installation</b>	Recess or Surface Mount via spacer.
<b>Approvals</b>	CE, C-Tick



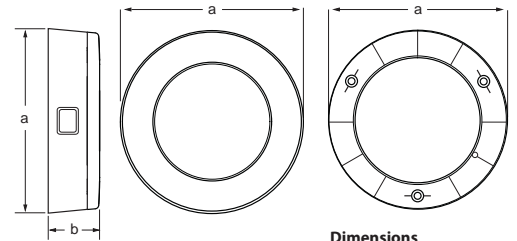
**Lamp**



**Dimensions**

- a = 115.0 mm / 4.53" with plastic rim
- 116.5 mm / 4.59" with stainless steel rim
- b = 90.0 mm / 3.54"
- c = 22.0 mm / 0.87"
- d = 77.0mm / 3.03"
- e = 31.5mm / 1.24"
- f = 100.0mm / 3.94" PCD

**Lamp with Spacer and Switch**



**Dimensions**

- a = 120.0mm / 4.72"
- b = 31.5mm / 1.24"

**EuroLED**  
115

**Screw Mount**



A white surface mount spacer ring is included with each lamp.



**White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 820-001
10-33V DC	Polished stainless steel rim	2JA 980 820-011



**Warm White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 820-101
10-33V DC	Polished stainless steel rim	2JA 980 820-111



**Surface Mount with Switch**



A white surface mount spacer with switch is included.



**White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 828-001
10-33V DC	Polished stainless steel rim	2JA 980 828-011



**Warm White Light LED Downlights**

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 980 828-101
10-33V DC	Polished stainless steel rim	2JA 980 828-111



# EuroLED TOUCH 150



Energy efficient LED lighting featuring advanced colour and dimming control at the touch of a button



Southstar 37 [www.salthouseboats.com](http://www.salthouseboats.com)

### Hella marine touch technology makes lighting control beautifully simple.

Touch the red pad for red light, the white pad for white light. Hold a finger on the pad for two seconds and the lamp will cycle through increasing / decreasing intensity levels until the maximum / minimum intensity is achieved. Release at the intensity level required.

Dual colour EuroLED lamps may also be remotely operated from multiple points via momentary switches. Holding an external switch for two seconds will synchronise the lamps to the same colour and/or intensity level.

Light levels are stored by the lamps circuitry, even when a vessel's batteries are turned off. The lamp will turn on at the colour intensity previously set, regardless of power interruption.

Glare diffusion without light loss is key with any LED lamp to maintain efficiency and safety. Significant eye strain can result from periods of looking directly into a powerful LED point source. Hella marine lens technology provides a safe and uniform light pattern, without glare or discomfort.

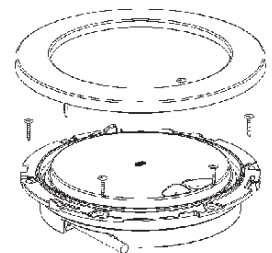
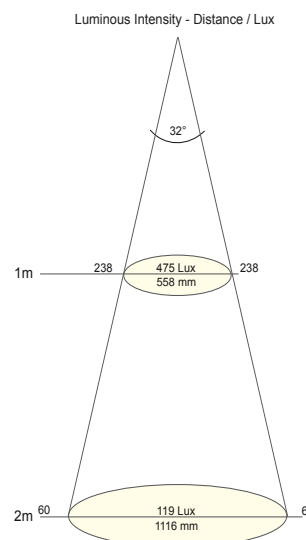
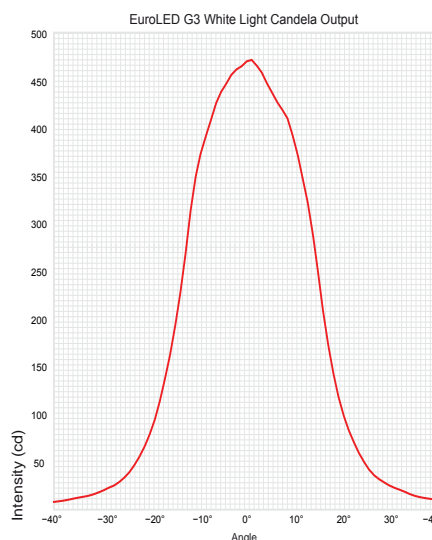
Each EuroLED is completely sealed, highly impact and shock resistant for an ultra long service life. Multivolt electronics provide consistent illumination and protection across a range of voltages from 9-33 DC, even under severe voltage fluctuations, low battery voltages and long cable runs.

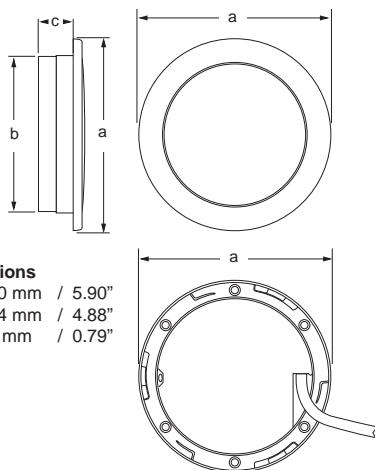
EuroLED Touch technology provides durable, energy saving illumination for a wide range of commercial and recreational applications.



- Completely sealed housing
- Pre-wired with marine cable

### EuroLED Touch 150mm Candela and Lux performance. White light.





**Dimensions**

a = 150 mm / 5.90"  
 b = 124 mm / 4.88"  
 c = 20 mm / 0.79"

<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Rim Material</b>	UV resistant plastic. 316 stainless steel
<b>Colour Temperature</b>	4200K (White) 3000K (Warm White)
<b>Cable</b>	Pre-wired with 500mm of twin core or triple core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Power Consumption</b>	4.0W ( 0.33A@12V / 0.17A@24V )
<b>Degree of Protection</b>	Completely Sealed
<b>Weight</b>	245g (including cable)
<b>Installation</b>	Recess mount
<b>Approvals</b>	CE, C-Tick

**Dual colour EuroLED Touch 150 lamps with dimming and remote momentary switch control.**  
 Touch the pad for ON/OFF or hold finger on the pad to cycle through dimming levels.



**White / Red Light EuroLED Touch 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 630-001
9-33V DC	Polished stainless steel rim	2JA 980 630-011



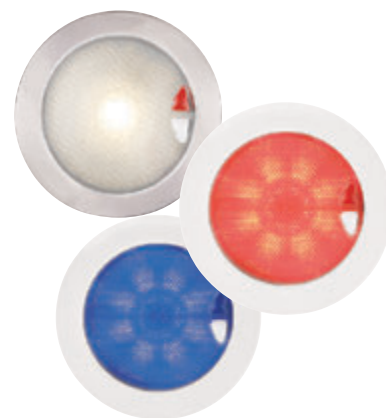
**Warm White / Red Light EuroLED Touch 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 630-101
9-33V DC	Polished stainless steel rim	2JA 980 630-111



**White / Blue Light EuroLED Touch 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 630-201
9-33V DC	Polished stainless steel rim	2JA 980 630-211



A white surface mount spacer ring is included with each lamp.

**Single colour EuroLED Touch 150 lamps without dimming or momentary switch control.**  
 Touch the white pad for ON, touch the black pad for OFF.



**White Light EuroLED Touch 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 630-501
9-33V DC	Polished stainless steel rim	2JA 980 630-511



**Warm White Light EuroLED Touch 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 630-601
9-33V DC	Polished stainless steel rim	2JA 980 630-611



A white surface mount spacer ring is included with each lamp.

**Single colour EuroLED 150 lamps.**



**White Light EuroLED 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 631-501
9-33V DC	Polished stainless steel rim	2JA 980 631-511



**Warm White Light EuroLED 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 631-601
9-33V DC	Polished stainless steel rim	2JA 980 631-611



A white surface mount spacer ring is included with each lamp.

**Single colour EuroLED 150 lamps with 0-10V dimming.**



**Dimming White Light EuroLED 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 631-001
9-33V DC	Polished stainless steel rim	2JA 980 631-011



**Warm White Light EuroLED 150 Lamps**

Voltage	Rim Finish	Part Number
9-33V DC	White plastic rim	2JA 980 631-101
9-33V DC	Polished stainless steel rim	2JA 980 631-111



A white surface mount spacer ring is included with each lamp.



# EuroLED TOUCH

— 130 —



Easy to install surface mount LED lighting with colour and dimming control at the touch of a button



Rayglass Protector 11m [www.rayglass.co.nz](http://www.rayglass.co.nz)

**EuroLED Touch lamps provide red / white, blue / white or white only light control via completely sealed touch sensitive technology.**

Touch the colour pad for red or blue light, the white pad for white light. On the dual colour versions, hold a finger on the pad for more than two seconds and the lamp will cycle through four dimming levels. Release at the intensity required.

Dual colour EuroLED Touch lamps may also be remotely operated by momentary switches. Holding one of the external switches for two seconds will synchronise the lamps to the same colour and/or intensity level.

Light levels are stored by the lamps circuitry, even when a vessel's batteries are turned off. The lamp will always turn on at the colour intensity previously set, regardless of power interruption. EuroLED current draw is 4W on white and less than 1.5W on red or blue to provide significant power savings.

Advanced Hella marine optic technology provides a safe and uniform light pattern, without glare or discomfort.

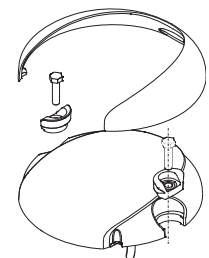
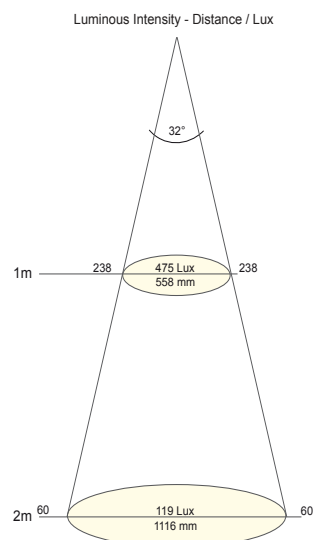
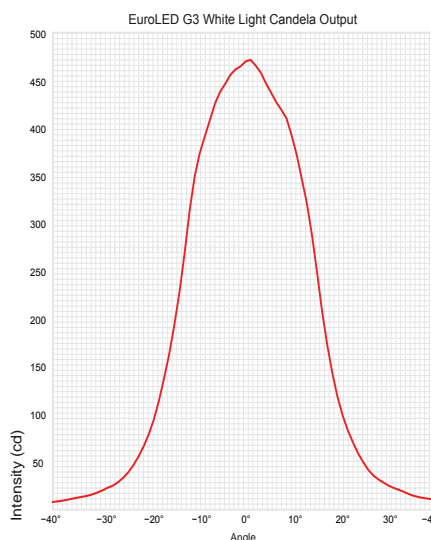
Each lamp is completely sealed, highly impact and shock resistant, for an ultra long service life. Multivolt circuitry provides consistent illumination across a range of voltages from 9-33 DC, even under severe voltage fluctuations.

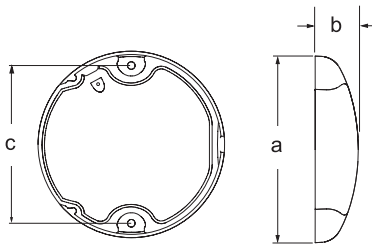
EuroLED provide durable, energy saving lighting for a wide range of commercial and recreational applications.



- Completely sealed housing
- Pre-wired with marine cable
- Mounting bushes eliminate torque loads
- Nylon shroud clips onto lamp body

**EuroLED Touch 130mm Candela and Lux performance. White light.**





**Dimensions**  
 a = 129.5mm / 5.10"  
 b = 29.5mm / 1.16"  
 c = 110mm / 4.33"



Packaging for aftermarket presentation

<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Shroud Material</b>	Heavy duty nylon
<b>Colour Temperature</b>	5000K (White)
<b>Cable</b>	Pre-wired with 2.5m of twin core marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Power Consumption</b>	4.0W ( 0.33A@12V / 0.17A@24V )
<b>Operating Temperature</b>	-40°C to +60°C / -40°F to 140°F
<b>Degree of Protection</b>	IP 6K6 6K7 - Completely Sealed
<b>Weight</b>	290g (including cable)
<b>Installation</b>	Surface mount with robust bush mount
<b>Approvals</b>	CE, C-Tick ISO 8846 (Ignition Protection)



**EuroLED Spacer Rings**

Black spacer 8HG 959 952-002  
 White spacer 8HG 959 952-012

**Dual colour EuroLED Touch 130 lamps with dimming and remote momentary switch control. Touch the pad for ON/OFF or hold finger to cycle through dimming levels.**



**White / Red Light EuroLED 130 Touch Lamps**

Voltage	Shroud Colour	Part Number
9-33V DC	White Shroud	2JA 959 950-121
9-33V DC	Black Shroud	2JA 959 950-111



**White / Blue Light EuroLED 130 Touch Lamps**

Voltage	Shroud Colour	Part Number
9-33V DC	White Shroud	2JA 959 951-121
9-33V DC	Black Shroud	2JA 959 951-111

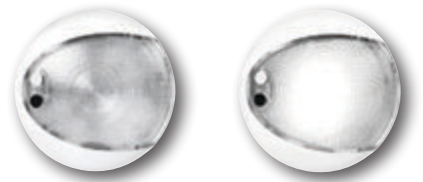


**Single White EuroLED Touch 130 lamps without dimming or momentary switch control. Touch the white pad for ON, touch the black pad for OFF.**



**Single White Light EuroLED 130 Touch Lamps**

Voltage	Shroud Colour	Part Number
9-33V DC	White Shroud	2JA 959 950-521
9-33V DC	Black Shroud	2JA 959 950-511



**Single White or Warm White EuroLED 130 lamps.**



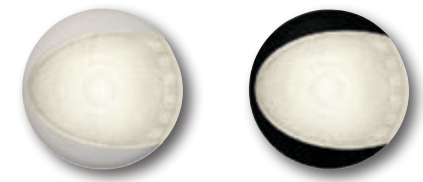
**White Light EuroLED 130 Lamps**

Voltage	Shroud Colour	Part Number
9-33V DC	White Shroud	2JA 959 820-521
9-33V DC	Black Shroud	2JA 959 820-511



**Warm White Light EuroLED 130 Lamps**

Voltage	Shroud Colour	Part Number
9-33V DC	White Shroud	2JA 959 820-321
9-33V DC	Black Shroud	2JA 959 820-301



# Easy Fit



**Compact and stylish LED courtesy lighting for interior and exterior applications**



Light is radiated downward at an angle of 30° making these lamps ideal for illuminating on board areas such as steps, stairs, toe kicks, storage areas, companion ways, deck fittings, signs and switches.

Multivolt electronics ensure constant light output in 12V or 24V DC systems. Easy Fit series lamps are completely sealed, shock and vibration resistant and represent reliable 'fit and forget' technology.

Each lamp is pre-wired with 120mm of marine tinned cable and supplied with stainless steel screws.



Mounting with screws.  
Push on plastic cap versions.



Mounting with screws.  
Stainless steel cap versions



- Completely sealed housing
- Pre-wired with marine cable



Mounting without screws.  
Push on plastic cap versions only.

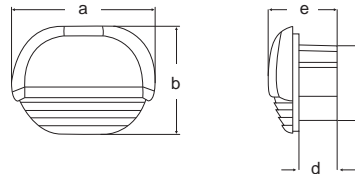


Packaging for aftermarket presentation

*Note - Plastic lamp covers cannot be removed easily once clipped into place.*



<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Cap Material</b>	Black, white, chrome plated plastic, polished 316 stainless steel
<b>Cable</b>	Pre-wired with 120mm of twin core marine cable
<b>Operating Voltage</b>	Multivolt 12 / 24V DC
<b>Power Consumption</b>	0.5W ( <0.04A@12V / <0.02A@24V )
<b>Degree of Protection</b>	Completely Sealed
<b>Weight</b>	Stainless Cap - 30g (including cable) Plastic Cap - 15g (including cable)
<b>Approvals</b>	CE, C-Tick



**Dimensions**

a = 45mm / 1.77"
b = 31.5mm / 1.24"
c = 25.4mm / 1.00"
d = 14mm / 0.55"
e = 22.7mm / 0.89"



#### White Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 998 560-001
12 / 24V DC	White plastic cap	2JA 998 560-011
12 / 24V DC	Gold plated cap	2JA 998 560-081
12 / 24V DC	Black plastic cap	2JA 998 560-111
12 / 24V DC	Satin chrome plated plastic cap	2JA 998 560-121
12 / 24V DC	Polished stainless steel cap	2JA 998 560-161



#### Warm White Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 998 560-401
12 / 24V DC	White plastic cap	2JA 998 560-411
12 / 24V DC	Gold plated cap	2JA 998 560-431
12 / 24V DC	Black plastic cap	2JA 998 560-421
12 / 24V DC	Satin chrome plated plastic cap	2JA 998 560-441
12 / 24V DC	Polished stainless steel cap	2JA 998 560-451



#### Blue Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 998 560-041
12 / 24V DC	White plastic cap	2JA 998 560-051
12 / 24V DC	Gold plastic cap	2JA 998 560-091
12 / 24V DC	Black plastic cap	2JA 998 560-151
12 / 24V DC	Satin chrome plated plastic cap	2JA 998 560-101
12 / 24V DC	Polished stainless steel cap	2JA 998 560-171



#### Amber Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 998 560-301
12 / 24V DC	White plastic cap	2JA 998 560-311
12 / 24V DC	Gold plated cap	2JA 998 560-331
12 / 24V DC	Black plastic cap	2JA 998 560-321
12 / 24V DC	Satin chrome plated plastic cap	2JA 998 560-341
12 / 24V DC	Polished stainless steel cap	2JA 998 560-351



#### Red Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 998 560-201
12 / 24V DC	White plastic cap	2JA 998 560-211
12 / 24V DC	Gold plated cap	2JA 998 560-231
12 / 24V DC	Black plastic cap	2JA 998 560-221
12 / 24V DC	Satin chrome plated plastic cap	2JA 998 560-241
12 / 24V DC	Polished stainless steel cap	2JA 998 560-251



#### Accessories to suit 8560 series

9AR 994 554-211  
Polished 316 Stainless Steel Cap  
and Mounting Screw Kit.

# Slim Line Courtesy



Energy efficient round or square LED courtesy lighting for interior and exterior applications



Hella marine Slim Line LED courtesy lamps can be installed almost anywhere on board.

Advanced lens technology provides an even spread of soft light without glare or eye strain. Each lamp is completely sealed, highly shock, impact and vibration resistant, perfectly suited for the demanding marine environment.

Hella marine LED courtesy lamps run very cool due to their low current draw of less than 0.5W (less than 0.04A@12V). This provides safer installation into light weight materials where the heat of incandescent lamps may cause damage to the surrounding structure.

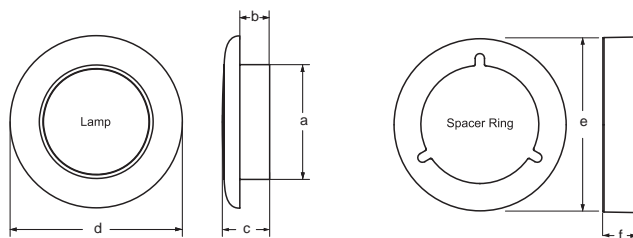


- Completely sealed housing
- Pre-wired with marine cable

<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Rim Material</b>	UV resistant plastic. 316 stainless steel
<b>Dimming</b>	Dimmed via Hella marine Dimmer 5XA 998 572-001
<b>Cable</b>	Pre-wired with 120mm of single core marine cable
<b>Operating Voltage</b>	12V DC or 24V DC
<b>Power Consumption</b>	< 0.5W ( <0.042A@12V / <0.02A@24V )
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Mounting</b>	Stainless steel screws included
<b>Weight</b>	50g (including cable)

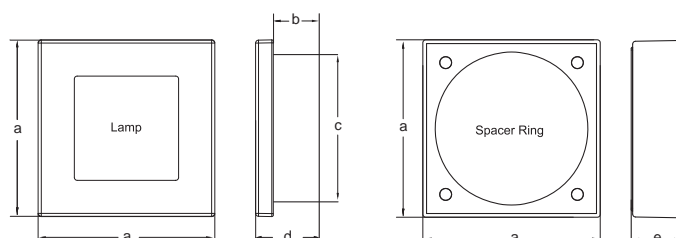


Packaging for aftermarket presentation



**Dimensions**

- a = 50.0 mm / 1.97"
- b = 13.0 mm / 0.51"
- c = 21.0 mm / 0.83"
- d = 75.0 mm / 2.95" with plastic rim  
72.0 mm / 2.83" with stainless steel rim
- e = 75.0 mm / 2.95"
- f = 15.0 mm / 0.59"



**Dimensions**

- a = 60.0 mm / 2.36"
- b = 16.0 mm / 0.63"
- c = 50.0 mm / 1.97"
- d = 22.0 mm / 0.87"
- e = 17.0 mm / 0.67"

## Round Slim Line Lamps

### White Light Round LED Lamps\*

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 980 500-591	2XT 980 501-591
Polished stainless steel rim	2XT 980 500-521	2XT 980 501-521
Gold stainless steel rim	2XT 980 500-531	2XT 980 501-531
White plastic rim	2XT 980 500-541	2XT 980 501-541
Black plastic rim	2XT 980 500-551	2XT 980 501-551



### Warm White Light Round LED Lamps\*

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 980 500-791	2XT 980 501-791
Polished stainless steel rim	2XT 980 500-721	2XT 980 501-721
Gold stainless steel rim	2XT 980 500-731	2XT 980 501-731
White plastic rim	2XT 980 500-741	2XT 980 501-741
Black plastic rim	2XT 980 500-751	2XT 980 501-751



### Green Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 980 502-091	2XT 980 503-091
Polished stainless steel rim	2XT 980 502-021	2XT 980 503-021
Gold stainless steel rim	2XT 980 502-031	2XT 980 503-031
White plastic rim	2XT 980 502-041	2XT 980 503-041
Black plastic rim	2XT 980 502-051	2XT 980 503-051



### Blue Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 980 502-291	2XT 980 503-291
Polished stainless steel rim	2XT 980 502-221	2XT 980 503-221
Gold stainless steel rim	2XT 980 502-231	2XT 980 503-231
White plastic rim	2XT 980 502-241	2XT 980 503-241
Black plastic rim	2XT 980 502-251	2XT 980 503-251



### Amber Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 980 507-091	2XT 980 508-091
Polished stainless steel rim	2XT 980 507-021	2XT 980 508-021
Gold stainless steel rim	2XT 980 507-031	2XT 980 508-031
White plastic rim	2XT 980 507-041	2XT 980 508-041
Black plastic rim	2XT 980 507-051	2XT 980 508-051



### Red Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 980 507-301	2XT 980 508-291
Polished stainless steel rim	2XT 980 507-221	2XT 980 508-221
Gold stainless steel rim	2XT 980 507-231	2XT 980 508-231
White plastic rim	2XT 980 507-241	2XT 980 508-241
Black plastic rim	2XT 980 507-251	2XT 980 508-251



### Surface Mounting Accessories

- Black Spacer 8HG 959 993-102
- White Spacer 8HG 959 993-112



## Square Slim Line Lamps

### Warm White Light Square LED Lamps\*

Rim Finish	12V Part Number	24V Part Number
Satin chrome plated rim	2XT 980 580-561	2XT 980 581-561
Chrome plated rim	2XT 980 580-571	2XT 980 581-571
Gold plated rim	2XT 980 580-531	2XT 980 581-531
White plastic rim	2XT 980 580-551	2XT 980 581-551
Black plastic rim	2XT 980 580-541	2XT 980 581-541



### Warm White Light Square LED Lamps\*

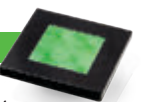
Rim Finish	12V Part Number	24V Part Number
Satin chrome plated rim	2XT 980 580-761	2XT 980 581-761
Chrome plated rim	2XT 980 580-771	2XT 980 581-771
Gold plated rim	2XT 980 580-731	2XT 980 581-731
White plastic rim	2XT 980 580-751	2XT 980 581-751
Black plastic rim	2XT 980 580-741	2XT 980 581-741



\*Lamps include a surface mounting spacer ring and stainless steel screws.

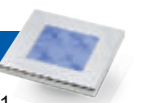
### Green Light Square LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin chrome plated rim	2XT 980 582-061	2XT 980 583-061
Chrome plated rim	2XT 980 582-071	2XT 980 583-071
Gold plated rim	2XT 980 582-031	2XT 980 583-031
White plastic rim	2XT 980 582-051	2XT 980 583-051
Black plastic rim	2XT 980 582-041	2XT 980 583-041



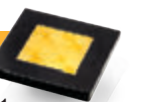
### Blue Light Square LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin chrome plated rim	2XT 980 582-261	2XT 980 583-261
Chrome plated rim	2XT 980 582-271	2XT 980 583-271
Gold plated rim	2XT 980 582-231	2XT 980 583-231
White plastic rim	2XT 980 582-251	2XT 980 583-251
Black plastic rim	2XT 980 582-241	2XT 980 583-241



### Amber Light Square LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin chrome plated rim	2XT 980 587-061	2XT 980 588-061
Chrome plated rim	2XT 980 587-071	2XT 980 588-071
Gold plated rim	2XT 980 587-031	2XT 980 588-031
White plastic rim	2XT 980 587-051	2XT 980 588-051
Black plastic rim	2XT 980 587-041	2XT 980 588-041



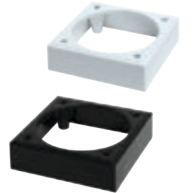
### Red Light Square LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin chrome plated rim	2XT 980 587-261	2XT 980 588-261
Chrome plated rim	2XT 980 587-271	2XT 980 588-271
Gold plated rim	2XT 980 587-231	2XT 980 588-231
White plastic rim	2XT 980 587-251	2XT 980 588-251
Black plastic rim	2XT 980 587-241	2XT 980 588-241



### Surface Mounting Accessories

- Chrome plated spacer 8HG 959 993-512
- Gold plated spacer 8HG 959 993-522
- Satin chrome plated spacer 8HG 959 993-532
- Black spacer 8HG 959 993-602
- White spacer 8HG 959 993-542





# Oblong Courtesy



Energy efficient oblong LED courtesy lighting for interior and exterior applications



Hella marine oblong LED lamps are offered as either dedicated step lamps or general courtesy illumination with equal vertical spread.

9680 series lamps feature engineered optics to direct light downwards at 30 degrees safely illuminating deck and step tread surfaces without shining into the eyes.

Completely sealed and ultra durable, Hella marine LED lamps may be installed on a vessel's interior or interior, wet or dry.

Engineered optics ensure an even spread of light without harsh point sources.

Attractive trim accessories are offered in polished, satin or gold plated 316 stainless steel.

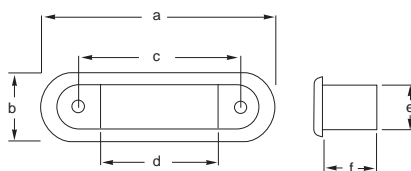


- Completely sealed housing
- Pre-wired with marine cable

<b>Lens Material</b>	UV and impact resistant plastic
<b>Cable</b>	Pre-wired with 120mm of marine cable
<b>Operating Voltage</b>	12V or 24V DC systems
<b>Power Consumption</b>	0.5W ( <0.04A@12V / <0.02A@24V )
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Mounting</b>	Stainless steel screws included
<b>Weight</b>	20g (add 15g for bezel version)
<b>Approvals</b>	CE, C-Tick

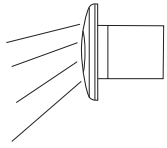


Packaging for aftermarket presentation



### Dimensions

a =	84.0 mm / 3.31"
b =	29.0 mm / 1.14"
c =	58.7 mm / 2.31"
d =	44.0 mm / 1.73"
e =	16.0 mm / 0.63"
f =	20.0 mm / 0.79"



Peak light is directed down at 30 degrees.



**LED**  
Multivolt

CLEAR LENS

**LED**  
Multivolt

CLEAR LENS

**LED**  
Multivolt

CLEAR LENS

**LED**  
Multivolt

CLEAR LENS

**LED**  
Multivolt

CLEAR LENS

## Wide Rim LED Step Lamps

### White Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 959 680-811
Gold stainless steel rim	10-33V DC	2XT 959 680-841
Satin stainless steel rim	10-33V DC	2XT 959 680-851

### Warm White Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 959 680-411
Gold stainless steel rim	10-33V DC	2XT 959 680-421
Satin stainless steel rim	10-33V DC	2XT 959 680-431

### Green Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 959 680-911
Gold stainless steel rim	10-33V DC	2XT 959 680-921
Satin stainless steel rim	10-33V DC	2XT 959 680-931

### Blue Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 959 680-611
Gold stainless steel rim	10-33V DC	2XT 959 680-641
Satin stainless steel rim	10-33V DC	2XT 959 680-651

### Red Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	8-28V DC	2XT 959 680-711
Gold stainless steel rim	8-28V DC	2XT 959 680-721
Satin stainless steel rim	8-28V DC	2XT 959 680-731



## Accessories

Polished 316 Stainless Steel Rim  
9AR 998 019-001

Gold Plated 316 Stainless Steel Rim  
9AR 998 019-011

Satin 316 Stainless Steel Rim  
9AR 959 685-061



**LED**  
Multivolt

CLEAR LENS

**LED**  
Multivolt

CLEAR LENS

**LED**  
Multivolt

CLEAR LENS

**LED**  
Multivolt

CLEAR LENS

## Wide Rim LED Courtesy Lamps

### White Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
clear	10-33V DC	2XT 959 510-851

### Warm White Light LED Step Lamps

Lens Colour	Voltage	Part Number
clear	10-33V DC	2XT 959 510-901

### Green Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
clear	10-33V DC	2XT 959 510-621

### Blue Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
Clear	10-33V DC	2XT 959 510-651

### Amber Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
Amber	12V DC	2XT 959 510-511
Amber	24V DC	2XT 959 510-561
Clear	12V DC	2XT 959 510-501
Clear	24V DC	2XT 959 510-551

### Red Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
Red	12V DC	2XT 959 510-711
Red	24V DC	2XT 959 510-761
Clear	12V DC	2XT 959 510-701
Clear	24V DC	2XT 959 510-751

# Surface Strip



Surface mount strip lamps for easy and versatile interior, exterior or courtesy lighting.



1720 Matt Watson Signature [www.stabicraft.com](http://www.stabicraft.com)  
12V Courtesy intensity white under gunnels

Featuring a completely sealed 10mm profile and class leading efficiency for a wide range of illumination tasks,

The range offers two intensity levels. **Interior Intensity** lamps (<3W) provide a wide spread of powerful illumination in white (5000K) or warm white (3000K) and are recommended as a viable alternative to 7W fluorescent or 10W incandescent based lamps.

The **Courtesy Intensity** range (<1.5W) provides soft and uniform courtesy light pattern in white, warm white, blue or red. The low profile design offers an effortless, surface mount installation almost anywhere onboard.

Purpose designed for the harsh marine environment, surface mount strip lamps are salt water durable and thoroughly tested to withstand high levels of vibration, impact, and shock loads.

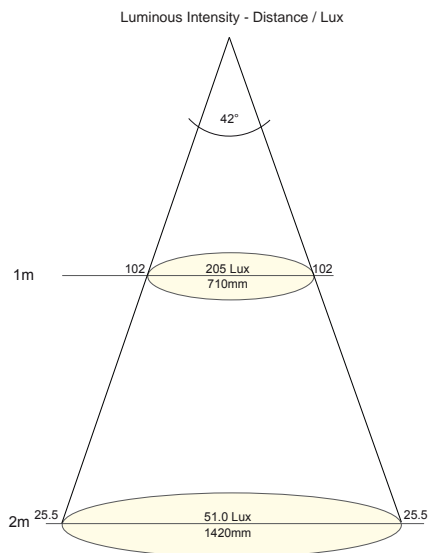
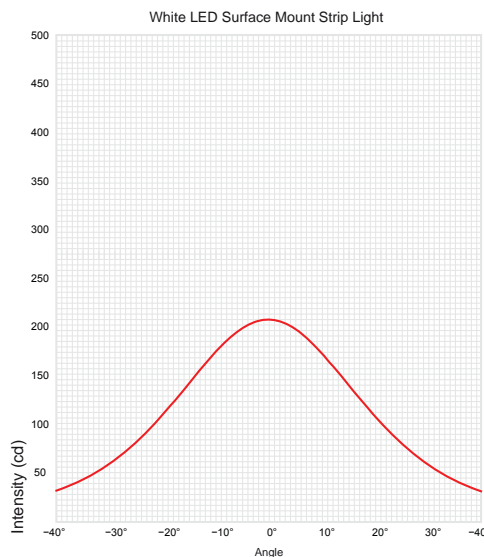
Engineered optics harness and distribute available light without glare, harsh point sources or eye strain. The result is highly effective illumination with minimal energy use.

Quality twin core marine cable is sealed into each lamp for absolute water tightness, reliable electrical connections and ongoing reliability.



- Completely sealed housing
- Pre-wired with marine cable

## Surface Strip Interior Intensity Candela and Lux performance. White light.

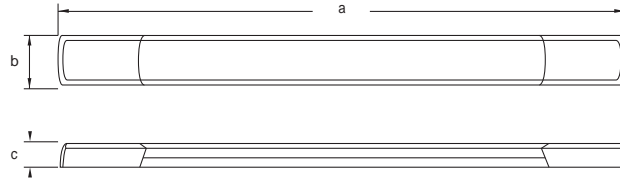






Packaging for aftermarket presentation

<b>Lens Material</b>	UV resistant enhanced impact acrylic
<b>Colour Temperature</b>	5000K (White) 3000K (Warm White)
<b>Dimming</b>	Hella marine Dimmer 5XA 998 572-001
<b>Cable</b>	Pre-wired with 500mm of twin core cable
<b>Operating Voltage</b>	12V DC or 24V DC
<b>Power Consumption</b>	Interior Intensity < 3.0W ( <0.25A@12V / <0.16A@24V ) Courtesy Intensity < 1.5W ( <0.125A@12V / <0.06A@24V )
<b>Degree of Protection</b>	Completely Sealed
<b>Installation</b>	Surface Mount
<b>Weight</b>	75g (including cable)



**Dimensions**  
a = 285 mm / 11.22"  
b = 25.0 mm / 1.0"  
c = 10.0 mm / 0.39"

### <3W Interior Intensity Surface Mount Lamps

#### White Light LED Lamps

Voltage	End Cap Colour	Part Number
12V DC	White	2JA 980 881-002
24V DC	White	2JA 980 881-102



#### Warm White Light LED Strip Lamps

Voltage	End Cap Colour	Part Number
12V DC	White	2JA 980 881-202
24V DC	White	2JA 980 881-302



### <1.5W Courtesy Intensity Surface Mount Lamps

#### White Light LED Strip Lamps

Voltage	End Cap Colour	Part Number
12V DC	White	2JA 980 881-012
24V DC	White	2JA 980 881-112



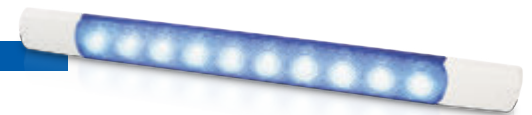
#### Warm White Light LED Strip Lamps

Voltage	End Cap Colour	Part Number
12V DC	White	2JA 980 881-212
24V DC	White	2JA 980 881-312



#### Blue Light LED Strip Lamps

Voltage	End Cap Colour	Part Number
12V DC	White	2JA 980 881-402
24V DC	White	2JA 980 881-502



#### Red Light LED Strip Lamps

Voltage	End Cap Colour	Part Number
12V DC	White	2JA 980 881-602
24V DC	White	2JA 980 881-702



#### Accessories to suit 0881 series

8HG 958 000-011  
45° Mounting Bracket.  
White.

# DuraLed®



Ultra wide, even illumination from energy efficient and robust LED lamps



Riviera 43FB [www.riviera.com.au](http://www.riviera.com.au)

**Completely sealed, compact LED lamps featuring highly efficient LED technology and an ultra wide spread of light.**

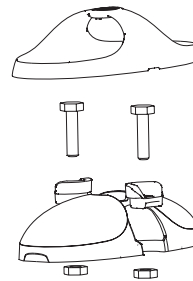
Power consumption is low at less than 2.5W (less than 0.20A@12V) yet light performance is comparable to an 8W fluorescent tube lamp.

DuraLed 12 LED lamps feature precision machined optics to purposely disperse light in a very wide spread pattern.

The result is LED technology ideal for engine room illumination, under decks, and to throw light into confined spaces and cavities on a wide range of vessels.

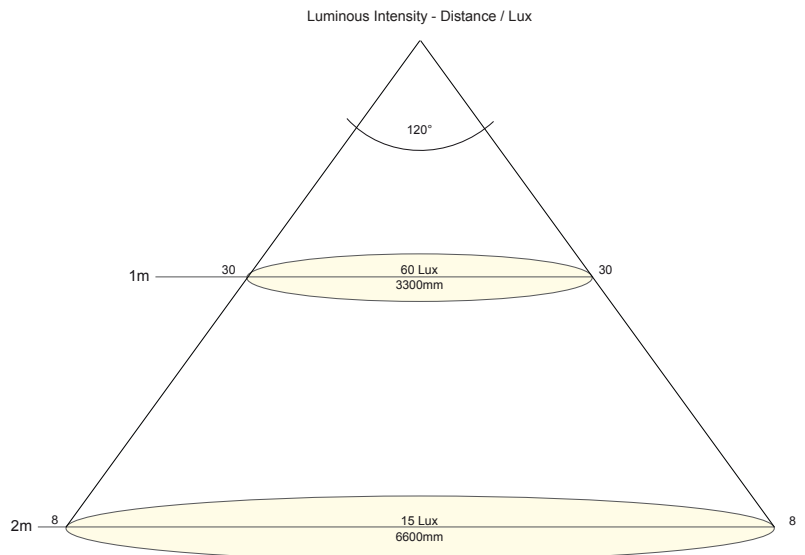
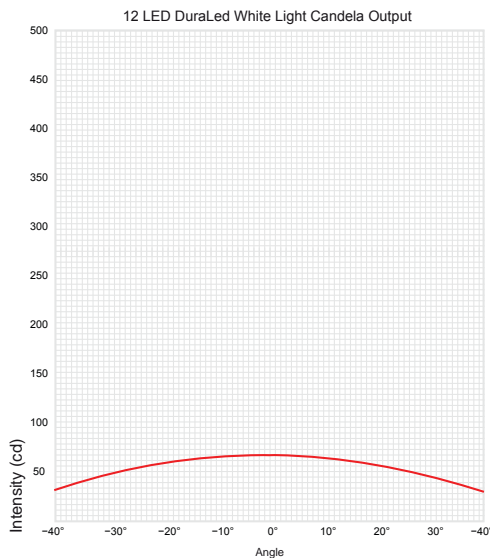
A robust bush mount system secures the surface mount lamp and takes up the torque loads of fastenings.

DuraLed lamps are thoroughly proven for harsh environments and represent outstanding class leading energy efficiency and maintenance free 'fit and forget' technology.



- Completely sealed housing
- Pre-wired with marine cable
- Mounting bushes eliminate torque loads
- Nylon shroud clips onto lamp body

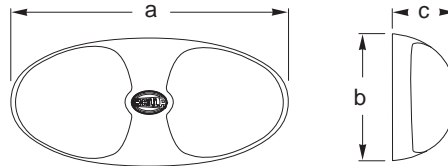
## DuraLed 12 LED Candela and Lux performance. White light.



<b>Lens Material</b>	UV resistant, enhanced impact acrylic
<b>Shroud Material</b>	Heavy duty nylon
<b>Colour Temperature</b>	5000K (White) / 3000K (Warm White)
<b>Cable</b>	Pre-wired with 500mm of twin core marine cable
<b>Operating Voltage</b>	12/24V DC
<b>Power Consumption</b>	< 2.5W ( <0.20A@12V / <0.10A@24V )
<b>Operating Temperature</b>	-40°C to +60°C / -40°F to 140°F
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Weight</b>	115g (including cable)
<b>Installation</b>	Surface mount with robust bush mount
<b>Approvals</b>	CE, C-Tick, ISO 8846 (Ignition Protection)



Packaging for aftermarket presentation



**Dimensions**  
a = 140 mm / 5.51"  
b = 65.0 mm / 2.56"  
c = 32.0 mm / 1.26"

# DuraLed®

**LED**  
Multivolt

## White Light DuraLed 12 LED Lamps

Voltage	Shroud Colour	Part Number
12 / 24V DC	White Shroud	2JA 959 700-101
12 / 24V DC	Black Shroud	2JA 959 700-121



**LED**  
Multivolt

## Warm White Light DuraLed 12 LED Lamps

Voltage	Shroud Colour	Part Number
12 / 24V DC	White Shroud	2JA 959 700-701
12 / 24V DC	Black Shroud	2JA 959 700-711



### Lamps with Heavy Duty Switch

**LED**  
Multivolt

## White Light DuraLed 12 LED Lamps with Switch

Voltage	Shroud Colour	Part Number
12 / 24V DC	White Shroud with switch	2JA 980 704-001
12 / 24V DC	Black Shroud with switch	2JA 980 704-021



**LED**  
Multivolt

## Warm White Light DuraLed 12 LED Lamps with Switch

Voltage	Shroud Colour	Part Number
12 / 24V DC	White Shroud with switch	2JA 980 704-501
12 / 24V DC	Black Shroud with switch	2JA 980 704-521





# DuraLed®



Heavy duty marine lamps offer outstanding light intensity, class leading efficiency and proven durability



**Powerful white light for heavy duty applications and a safe, energy efficient and reliable alternative to incandescent and fluorescent lighting.**

Designed for engine rooms, storage lockers, lazarettes and many heavy duty applications where reliability must not be compromised. Advanced Hella marine lens and optic engineering ensures a wide spread of light without glare or harsh point sources.

Product reliability is second to none, proven worldwide in thousands of highly demanding applications. Each lamp is a completely sealed design, highly impact resistant and shock resistant, ensuring an ultra long service life.

DuraLed lamps are surface mounted and feature a unique installation system where the fastening load is taken up by a heavy duty nylon bush to eliminate possible stress on the lamp housing.

Hella marine Multivolt circuitry provides constant illumination and circuit protection from 9-33V DC, even under severe voltage fluctuations. Spike protection, reverse polarity protection and over voltage protection are all built-in benefits of the sophisticated electronics inside each lamp.



- Completely sealed housing and cable entry
- Pre-wired with marine cable



Completely sealed unit with robust bush mounts.



20 and 36 LED DuraLed packaging option for aftermarket presentation

<b>Lens Material</b>	UV resistant, enhanced impact acrylic
<b>Colour Temperature</b>	5000K (Cool White)
<b>Cable</b>	Pre-wired with 2.5m of twin core marine cable
<b>Operating Voltage</b>	9-33V DC
<b>Voltage Protection</b>	Spike protected to +500 volts Reverse polarity protected to -700 volts
<b>Power Consumption</b>	20 LED < 4W ( <0.33A@12V / <0.17A@24V ) 36 LED < 7W ( <0.51A@12V / <0.28A@24V ) 50 LED < 10W ( <0.80A@12V / <0.39A@24V )
<b>Operating Temperature</b>	-40°C to +60°C / -40°F to 140°F
<b>Degree of Protection</b>	IP 67 - Completely Sealed
<b>Weight</b>	20 and 36 LED 345g (including cable) 50 LED 450g (including cable)
<b>Installation</b>	Surface mount with robust bush mount
<b>Approvals</b>	CE, C-Tick, ISO 8846 (Ignition Protection)

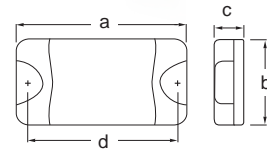
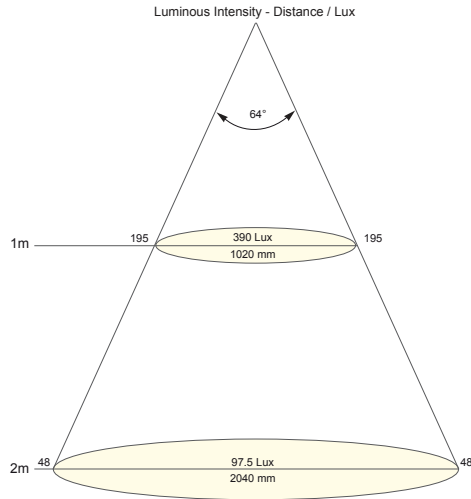
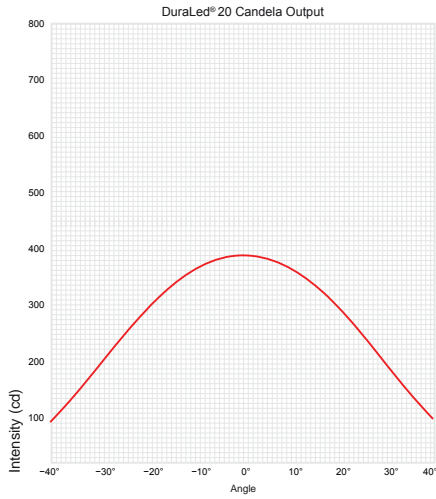


### DuraLed 20 LED



#### DuraLed 20 LED White Light Lamps

Voltage	Packaging	Part Number
9-33V DC	Carton	2JA 980 608-001
9-33V DC	Blister	2JA 980 608-002



**Dimensions**

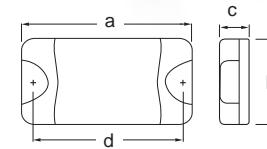
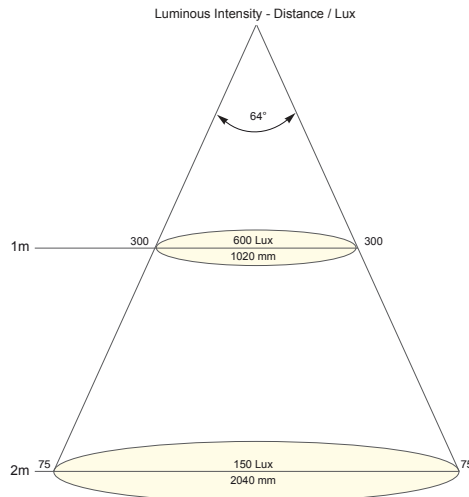
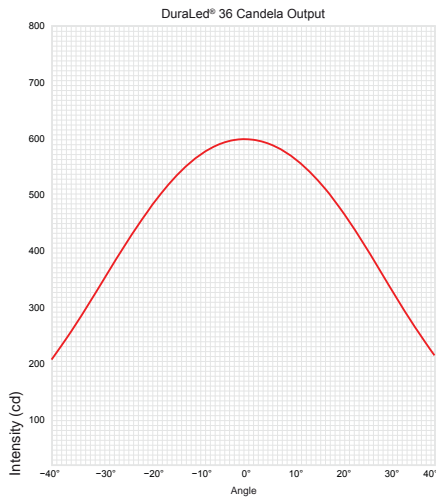
a = 177mm / 6.97"
b = 100mm / 3.94"
c = 30mm / 1.18"
d = 148mm / 5.83"

### DuraLed 36 LED



#### DuraLed 36 LED White Light Lamps

Voltage	Packaging	Part Number
9-33V DC	Carton	2JA 959 037-521
9-33V DC	Blister	2JA 959 037-522



**Dimensions**

a = 177mm / 6.97"
b = 100mm / 3.94"
c = 30mm / 1.18"
d = 148mm / 5.83"

### DuraLed 50 LED



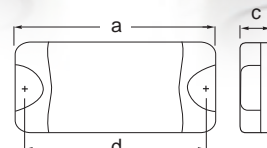
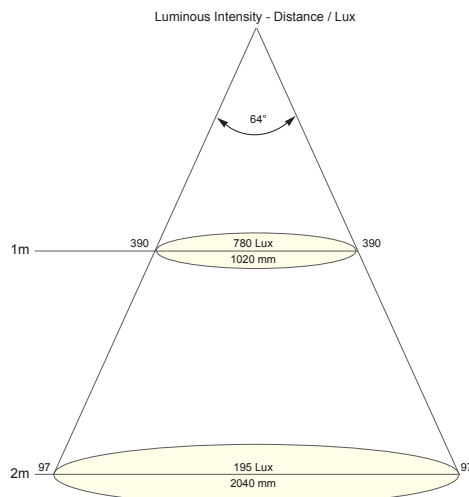
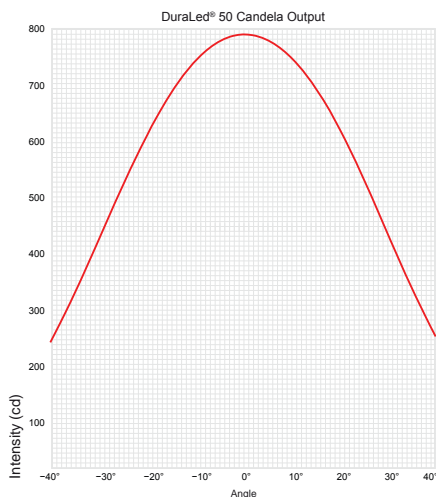
#### DuraLed 50 LED White Light Lamp

Voltage	Packaging	Part Number
9-33V DC	Carton	2JA 980 604-011



#### DuraLed 50 LED White/Red Light Lamp

Voltage	Packaging	Part Number
9-33V DC	Carton	2JA 980 604-061*
*30xWhite 20xRed LEDs		



**Dimensions**

a = 220mm / 8.66"
b = 96mm / 3.78"
c = 31mm / 1.22"
d = 193mm / 7.60"



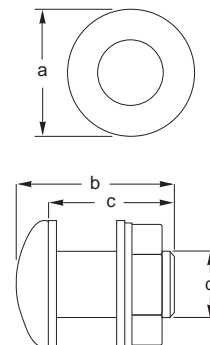
**Sealed LED lamps specifically designed for illuminating live bait tanks**



Completely sealed, power saving LED Livewell / Baitwell lamps are designed for installation into live bait tanks with wall thicknesses up to 26mm. Supplied with a plastic nut and rubber gaskets for a watertight seal, installation is swift and secure into often inaccessible locations.



<b>Housing Description</b>	Heavy duty polycarbonate
<b>Installation</b>	Pre-wired with 120mm of cable
<b>Operating Voltage</b>	12V DC
<b>Power Consumption</b>	0.5W ( < 0.04A@12V / < 0.02A@24V )
<b>Degree of Protection</b>	IP 67 - Completely sealed
<b>Mounting</b>	Single hole Rubber gaskets included
<b>Weight</b>	75g (including cable)



**Dimensions**

- a = 50.0 mm / 1.97"
- b = 49.0 mm / 1.93"
- c = 40.0 mm / 1.57"
- d = 26.0 mm / 1.02"



Packaging for aftermarket presentation

**White Light LED Livewell Lamp**

Voltage	Lens Color	Part Number
12V	Clear	2JA 998 543-051

**Blue Light LED Livewell Lamp**

Voltage	Lens Color	Part Number
12V	Clear	2JA 998 543-031

**Amber Light LED Livewell Lamp**

Voltage	Lens Color	Part Number
12V	Amber	2JA 998 543-001

**Red Light LED Livewell Lamp**

Voltage	Lens Color	Part Number
12V	Red	2JA 998 543-021



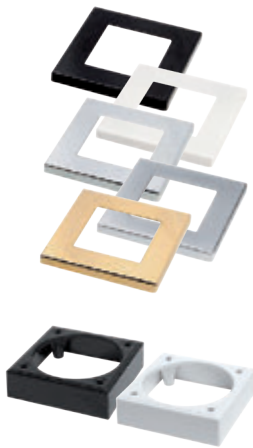


#### Round Lamp Rims

Description	Part Number
Black Plastic Rim Soft Edge	9AB 959 505-202
White Plastic Rim Soft Edge	9AB 959 505-312
Polished 316 S/S Rim Soft Edge	9AB 959 505-502
Gold Plated 316 S/S Rim Soft Edge	9AB 959 505-522
Satin Chrome Plated 316 S/S Rim Soft Edge	9AB 959 505-562
White Plastic Rim Square Edge	9AB 959 505-912
Polished 316 S/S Rim Square Edge	9AB 959 505-402

#### Round Courtesy Surface Mount Spacer Rings

Description	Part Number
Black Plastic Spacer	8HG 959 993-102
White Plastic Spacer	8HG 959 993-112



#### Square Lamp Rims

Description	Part Number
Black Plastic Rim	9AB 959 585-202
White Plastic Rim	9AB 959 585-312
Chrome Plated Plastic Rim	9AB 959 585-012
Gold Plated Plastic Rim	9AB 959 585-022
Satin Chrome Plated Plastic Rim	9AB 959 585-032

#### Square Courtesy Surface Mount Spacer Rings

Description	Part Number
Black Plastic Spacer	8HG 959 993-602
White Plastic Spacer	8HG 959 993-542
Chrome Plated Plastic Spacer	8HG 959 993-512
Gold Plated Plastic Spacer	8HG 959 993-522
Satin Chrome Plated Plastic Spacer	8HG 959 993-532



#### Easy Fit Step Lamp Caps

Description	Part Number
Black Cap	9AB 994 554-032
White Cap	9AB 994 554-012
Chrome Plated Cap	9AB 994 554-002
Gold Plated Cap	9AB 994 554-022
Satin Chrome Plated Cap	9AB 994 554-062
Polished 316 Stainless Steel Cap (with screws)	9AR 994 554-211



#### Wide Rim Rectangular Courtesy Lamp Rims

Description	Part Number
Polished 316 Stainless Steel Rim	9AR 998 019-001
Gold Plated 316 Stainless Steel Rim	9AR 998 019-011
Satin Chrome Plated 316 Stainless Steel Rim	9AR 959 685-061



#### EuroLED 115mm Spacer Ring

Description	Part Number
EuroLED 115 White Plastic Spacer	8HG 980 827-002

#### EuroLED 130mm Accessories

Description	Part Number
Black Nylon Shroud	9HD 959 027-002
White Nylon Shroud	9HD 959 027-012
Screw Boss (Pack of 2)	9NH 959 028-012

#### EuroLED 130mm Spacer Rings

Description	Part Number
EuroLED 130 Black Plastic Spacer	8HG 959 952-002
EuroLED 130 White Plastic Spacer	8HG 959 952-012

## Fluorescent Lamps

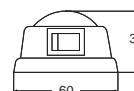


### Transistorised Fluorescent Tube Lamps

Modern, attractive and power saving fluorescent lights for a variety of interior applications. The combination of advanced electronics and efficient compact fluorescent tubes ensures lower power consumption than incandescent lamps for the same light output.

**Further benefits include:**

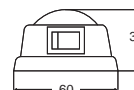
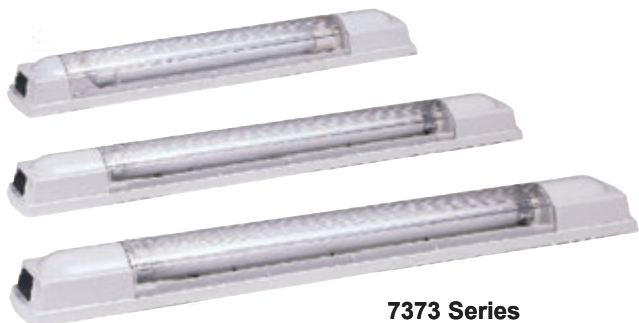
- Flicker free noiseless operation
- Homogeneous spread of light
- Vibration and shock resistance
- Reliable ignition even at extremely low temperatures
- Prevention of early blackening of the fluorescent tube
- Reverse polarity protection
- ON / OFF switch integrated into housing
- Interference suppressed to VDE 0879



**7372 Series**

<b>Housing Description</b>	Impact resistant plastic
<b>Light Source</b>	TL8 Fluorescent tube included
<b>Installation</b>	6.3mm flat-plug connectors

Fluorescent Tube Interior Lamps			Light output comparison
<b>Voltage / Wattage</b>	<b>Length</b>	<b>Part Number</b>	Compact 8W fluorescent tube produces light output equivalent to a 40W incandescent bulb.
12V / 8W	440mm	2JA 007 372-002	
24V / 8W	440mm	2JA 007 372-012	



**7373 Series**

<b>Housing Description</b>	Impact resistant plastic
<b>Light Source</b>	TL8 Fluorescent tube included
<b>Installation</b>	6.3mm flat-plug connectors

Fluorescent Tube Interior Lamps			Light output comparison
<b>Voltage / Wattage</b>	<b>Length</b>	<b>Part Number</b>	Compact 7W fluorescent tube produces light output equivalent to a 40W incandescent bulb.
12V / 7W	255mm	2JA 007 373-002	
24V / 7W	255mm	2JA 007 373-012	

Fluorescent Tube Interior Lamps			Light output comparison
<b>Voltage / Wattage</b>	<b>Length</b>	<b>Part Number</b>	Compact 11W fluorescent tube produces light output equivalent to a 75W incandescent bulb.
12V / 11W	285mm	2JA 007 373-032	
24V / 11W	285mm	2JA 007 373-042	

Fluorescent Tube Interior Lamps			Light output comparison
<b>Voltage / Wattage</b>	<b>Length</b>	<b>Part Number</b>	Compact 8W fluorescent tube produces light output equivalent to a 40W incandescent bulb.
12V / 8W	355mm	2JA 007 373-062	
24V / 8W	355mm	2JA 007 373-072	

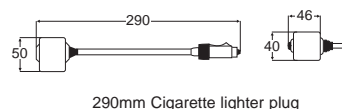
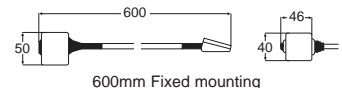
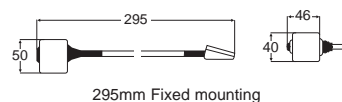
Chart Reading Lamps



**4532 Series**

Adjustable lamps for navigation areas.  
An ON/OFF switch is integrated into the lamp head.  
A red lens is included for optional 'non glaring' night illumination.

<b>Housing Description</b>	Plastic
<b>Bulb</b>	12V / 5W BA9s included
<b>Installation</b>	Pre-wired with 100mm of cable
<b>Maximum Output</b>	6W



**4532 Series Halogen Interior Lamps**

Voltage	Arm Length	Part Number
12V	296mm	2AB 004 532-171
12V	600mm	2AB 004 532-161
12V	290mm (Cigarette)	2AB 004 532-022

**Replacement Bulb Type**

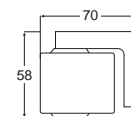
**12V / 5W Bulb**  
8GH 002 473-151

**4532 Series**

Compact and functional mini halogen spot lamps for navigation areas, berths and applications where adjustable light is required.  
A red lens is included for optional 'non glaring' night illumination.  
An ON/OFF switch is integrated into the lamp head.  
Vertical and horizontal joint for rotating and pivoting.



<b>Housing Description</b>	Plastic
<b>Bulb</b>	12V / 5W BA9s included
<b>Installation</b>	Pre-wired with 100mm of cable
<b>Maximum Output</b>	5W



**4532 Series Incandescent Interior Lamps**

Voltage	Housing Colour	Part Number
12V	Black Housing	2AB 004 532-101
12V	White Housing	2AB 004 532-111

**Replacement Bulb Type**

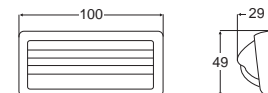
**12V / 5W Bulb**  
8GH 002 473-151



**4192 Series**

Ideal berth or chart reading lamps. Shutter tilts to switch lamp ON and OFF. Adjustable light opening.

<b>Housing Description</b>	Plastic
<b>Bulb</b>	10W SV8.5 (Not included)
<b>Installation</b>	2 flat plug connectors 6.3mm
<b>Maximum Output</b>	10W



**4192 Series Incandescent Interior Lamps**

Voltage	Housing Colour	Lens Colour	Part Number
12V	White Housing	Clear	2JA 004 192-071
12V	Black Housing	Clear	2JA 004 192-001
12V	White Housing	Red	2JA 004 192-081
12V	Black Housing	Red	2JA 004 192-041

**Replacement Bulb Type**

**12V / 10W Bulb**  
8GM 002 091-131

**24V / 10W Bulb**  
8GM 002 091-251



General Interior / Exterior Lamps



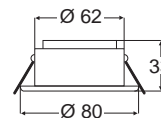
**8508 Series**

Water resistant flush mount halogen lamps suitable for interior or exterior installations.

The reflector uses a 10W bulb. Bulbs up to 20W can also be used.

Supplied with a silicon seal to prevent the glass lens from vibrating. Spring clip mounting.

<b>Housing Description</b>	Solid brass housing Stainless steel cover ring
<b>Bulb</b>	12V / 10W Halogen G4 included
<b>Degree of Protection</b>	IP 65
<b>Installation</b>	Pre-wired with 150mm of cable
<b>Maximum Output</b>	20W



**8508 Series Halogen Interior / Exterior Lamps**

Voltage	Housing Colour	Part Number
12V	Chrome Housing	2JA 998 508-001
12V	White Housing	2JA 998 508-011

**Replacement Bulb Type**

**12V / 10W Bulb**  
8GH 005 758-131

**24V / 10W Bulb**  
8GH 005 758-251

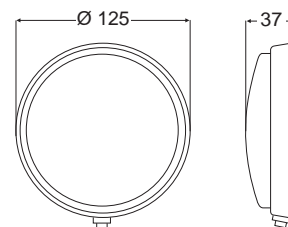


**8513 Series**

Water resistant marine lamps made from tough polycarbonate with a foam rubber gasket. Suitable for interior or exterior installations.

Mounting screws included. Integrated ON / OFF switch.

<b>Housing Description</b>	Impact resistant polycarbonate
<b>Bulb</b>	12V / 10W SV8.5 included
<b>Installation</b>	Pre-wired with 70mm of cable
<b>Maximum Output</b>	15W



**8513 Series Halogen Interior / Exterior Lamps**

Voltage	Housing Colour	Part Number
12V	Chrome Housing with Switch	2JA 998 513-011
12V	White Housing with Switch	2JA 998 513-001

**Replacement Bulb Type**

**12V / 10W Bulb**  
8GM 002 091-131

**24V / 10W Bulb**  
8GM 002 091-251



*LED Trailer Lighting & Accessories*

**Hella marine**   
*Vision and Innovation*



## Submersible LED Trailer Lamps



Hella marine LED trailer lamps are the highly visible, maintenance free solution for reliable and safe boat trailer lighting. Designed and manufactured in New Zealand, every product is a completely sealed, ultra durable, maintenance free and represent true 'fit and forget' LED technology.

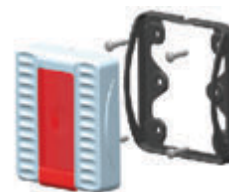
Sophisticated internal electronics reduce the effect of voltage drop, ensuring ongoing safety.

This means Hella LED lamps perform at full brightness across a range of voltages unaffected by voltage drop that can dull bulb lamps due to long cable runs, joins, terminals and plugs in a boat trailer's wiring.

### 0720 Series LED Combination Lamp



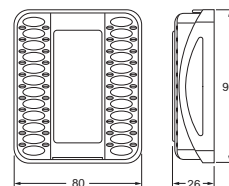
<b>Lens Material</b>	Heavy duty Grilamid lens
<b>Mounting</b>	Horizontal or vertical
<b>Operating Voltage</b>	Suitable for 12 volt and 24 volt systems
<b>Power Consumption</b>	Rear position 1W, Indicator 2W, Stop 2W
<b>Voltage Protection</b>	Spike, Over Voltage and Reverse Polarity
<b>Cable</b>	Pre-wired with 0.5m of cable
<b>Approvals</b>	ECE



**LED**  
Dualvolt

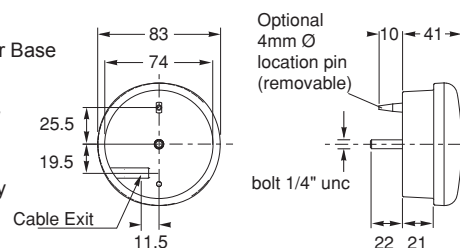
### Submersible Rear Combination Lamp

<b>Description</b>	<b>Part Number</b>
1 x Rear Position / Stop / Indicator	2VA 980 720-001



### 9010 & 9011 Series LED Lamps

<b>Lens Material</b>	High impact acrylic
<b>Mounting</b>	Single Bolt, optional Red Reflex Reflector Base
<b>Operating Voltage</b>	Dualvolt 12-24V DC
<b>Power Consumption</b>	Rear position 1W, Indicator 3W, Stop 3W Fog 3W, Reverse 4W
<b>Voltage Protection</b>	Spike, Over Voltage and Reverse Polarity
<b>Cable</b>	Pre-wired with 2.5m of cable
<b>Approvals</b>	ECE



**LED**  
Dualvolt

### Submersible Rear Combination Lamp

<b>Description</b>	<b>Part Number</b>
Single Rear Position / Stop / Indicator Lamp	2SD 959 010-201



**LED**  
Dualvolt

### Submersible Single Function Lamps

<b>Description</b>	<b>Part Number</b>	<b>Description</b>	<b>Part Number</b>
Fog	2NE 959 011-501	Reverse	2ZR 959 010-501

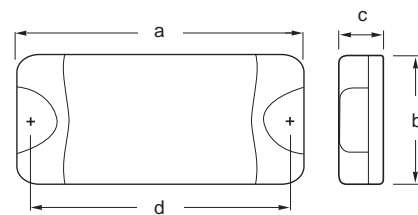






**DuraLED Series Combination Lamps**

<b>Lens Material</b>	High impact acrylic
<b>Mounting</b>	Designed to be mounted horizontally
<b>Operating Voltage</b>	Suitable for 12 volt and 24 volt systems
<b>Power Consumption</b>	Rear Position 1W, Indicator 5W, Stop 5W, Reverse 3W ( 2SF 980 603-503 only)
<b>Voltage Protection</b>	Spike, Over Voltage and Reverse Polarity
<b>Cable</b>	Pre-wired with 6m of cable
<b>Approvals</b>	ECE



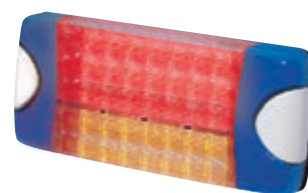
**Dimensions**  
 a = 220mm / 8.66"  
 b = 96mm / 3.78"  
 c = 31mm / 1.22"  
 d = 193mm / 7.60"



**LED**  
Dualvolt

**Submersible Rear Combination Lamp**

<b>Description</b>	<b>Part Number</b>
Rear Position / Stop / Indicator	2SD 959 050-001



**LED**  
Dualvolt

**Submersible Trailer Lighting Kit**

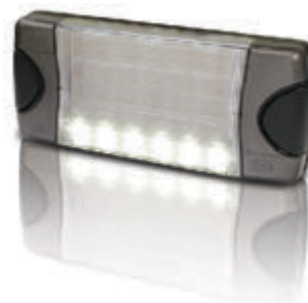
<b>Kit Contains</b>	<b>Part Number</b>
2 x 2SD 959 050-001 Combination Lamps	2VB 959 050-801
2 x 2KA 959 640-601 Number Plate Lamps	
2 x 8RA 002 020-001 Triangular Reflectors	



**LED**  
Dualvolt

**Submersible Rear Combination Lamp with Reverse**

<b>Description</b>	<b>Part Number</b>
Rear Position / Stop / Indicator / Reverse	2SK 980 603-503



Submersible LED Lamps

Surface Mount LED Marker Lamps



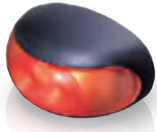
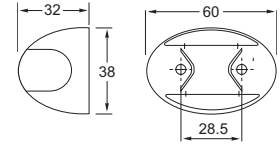
Operating Voltage Multivolt 8-28V DC  
 Power Consumption <1W  
 Approvals ECE



LED Multivolt

DuraLED Front Position / End Outline Lamps

Quantity	Cable Length	Part Number
2 pcs	500mm	2PF 959 570-202
2 pcs	5m	2PF 959 570-212



LED Multivolt

DuraLED Rear Position / End Outline Lamps

Quantity	Cable Length	Part Number
2 pcs	500mm	2XA 959 560-401
2 pcs	5m	2XA 959 560-411

Flush Mount LED Marker Lamps



Operating Voltage Multivolt 8-28V DC  
 Power Consumption <1W  
 Approvals ECE

LED Multivolt

Front Position / End Outline Lamps. Horizontal or vertical mounting

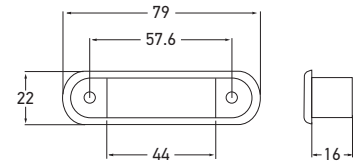
Quantity	Cable Length	Part Number
2 pcs	500mm	2PF 959 590-202
2 pcs	5m	2PF 959 590-212



LED Multivolt

Rear Position / End Outline Lamps. Horizontal or vertical mounting

Quantity	Cable Length	Part Number
2 pcs	500mm	2XA 959 790-401
2 pcs	5m	2XA 959 790-411



LED Multivolt

Side Marker Lamps. Horizontal mounting only

Quantity	Cable Length	Lens Colour	Part Number
2 pcs	500 mm	Orange	2PS 959 788-002
2 pcs	500 mm	Transparent	2PS 959 788-102



LED Number Plate Lamp



Operating Voltage Multivolt 10-33V DC  
 Approvals ECE

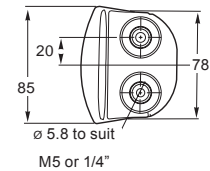
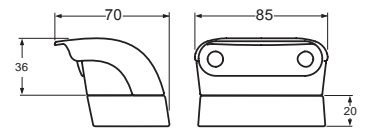
Note - Two units required for Europe.



LED Multivolt

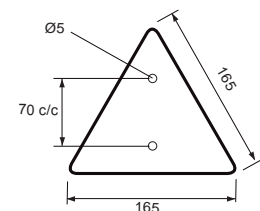
Number Plate Lamp

Part Number	2KA 959 640-601
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ECE Triangular Reflector

Part Number	8RA 002 020-001
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*Accessories*



## Oscillating Fans

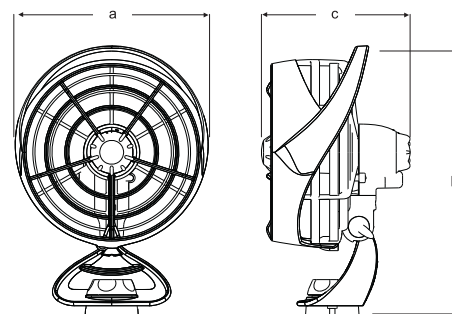


### Two Speed "Turbo 2.0" Oscillating Fans

Highly regarded Hella marine Turbo fans are strengthened by the arrival of the Turbo 2.0 series.

Now featuring an oscillating function to deliver refreshingly cool air circulation on board, Turbo 2.0 fans continue with Hella's benchmark quiet operation, low power consumption and proven durable materials.

- Quality German motor for quiet operation
- Low power consumption <4W (<0.33A@12V)
- Hi / Lo fan speed control
- On / Off oscillation control
- Safety blade guard front and rear
- Side, upright or pendant mounting
- Pre-wired with 1.8m / 6ft of cable
- Side, upright or pendant mounting



**Dimensions**  
 a = 181mm / 7.13"  
 b = 252mm / 9.92"  
 c = 139mm / 5.47"



<b>Material Description</b>	Impact resistant plastic
<b>Switch</b>	Integrated 2 stage rotary
<b>Output</b>	Speed 1: 70 litre / sec. Speed 2: 95 litre / sec.
<b>Power Consumption</b>	<4W (<0.33A@12V)
<b>Installation</b>	Pre-wired with 1.8m / 6ft of cable

### Two Speed Oscillating Fan "Turbo 2.0"

Voltage	Housing Colour	Part Number
12V	Black Housing	8EV 003 366-012
12V	White Housing	8EV 003 366-022





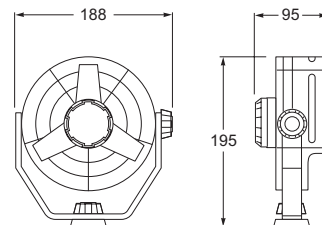
**Two Speed "Turbo" Fans**

Internationally respected Hella Turbo fans may be turned and pivoted in all directions and locked into position.

- Quality German motor for quiet operation
- 150mm diameter fan blade with guard
- High air moving capacity with low power consumption
- Two speed switch in front of the blade guard
- Side, upright or pendant mounting



<b>Material Description</b>	Impact resistant plastic
<b>Switch</b>	Integrated 2 stage rotary
<b>Output</b>	Speed 1: 70 litre / sec. Speed 2: 95 litre / sec.
<b>Power Consumption</b>	6.5W
<b>Installation</b>	Pre-wired with 1.4m / 4.6ft of cable



**Two Speed Fan "Turbo"**

Voltage	Housing Colour	Part Number
12V	Black Housing	8EV 003 361-002
12V	White Housing	8EV 003 361-022
24V	Black Housing	8EV 003 361-012



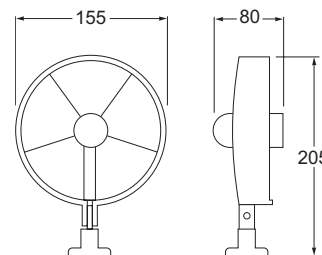
**Single Speed "Jet" Fan**

Economy fan with similar styling to the popular "Turbo" models. Can be turned and pivoted in all directions, and locked in position.

- 130mm diameter fan blade with guard.
- Switch in front of the blade guard.
- Side, upright or pendant mounting.



<b>Material Description</b>	Impact resistant plastic
<b>Switch</b>	ON/OFF switch
<b>Output</b>	40 litres / sec.
<b>Power Consumption</b>	3.5W
<b>Installation</b>	Pre-wired with 1.4m / 4.6ft of cable



**Single Speed Fan "Jet"**

Voltage	Housing Colour	Part Number
12V	Black Housing	8EV 006 239-002
12V	White Housing	8EV 006 239-012

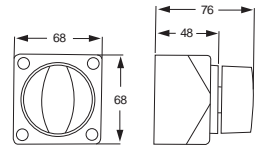
## Battery Switches

### 275 Amp Battery Master Switch



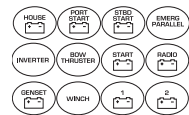
Contour Lock system with removable plates for connection from all sides. This allows the switch to be a stand alone unit or locked together with other switches. The control knob can not be removed whilst in an ON or OFF position, however it can be removed by switching to an anti-clockwise 45° position. Suitable for surface or recess mounting by cutting a 52mm diameter hole.

<b>Material Description</b>	Impact resistant plastic	
	Tin plated copper studs and nuts	
<b>Termination Stud Size</b>	2 x 10mm (3/4")	
<b>Operation</b>	ON / OFF	
<b>Degree of Protection</b>	IP 56	
<b>Max. Load 12 / 24V DC</b>	Continuous	275 Amps
	Intermittent	455 Amps (5 minutes)
	Cranking	1250 Amps (10 seconds)
<b>Max. Voltage</b>	48V DC	



#### 275 Amp Battery Master Switch

<b>Part Number</b>	Spare label set	9XT 998 011-001
6EK 998 540-001		

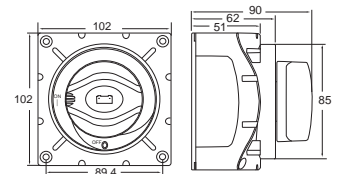


### 600 Amp Battery Master Switch



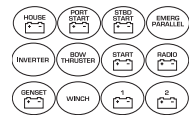
Contour Lock system with removable plates for connection from all sides. This allows the switch to be a stand alone unit or locked together with battery distribution modules. The control knob can not be removed whilst in an ON or OFF position, however it can be removed by switching to an anti-clockwise 45° position. Switch can also be pad locked. Suitable for surface or recess mounting by cutting an 85mm diameter hole.

<b>Material Description</b>	Impact resistant plastic	
	Tin plated copper studs and nuts	
<b>Termination Stud Size</b>	2 x 12mm (1/2")	
<b>Operation</b>	ON / OFF	
<b>Degree of Protection</b>	IP 56	
<b>Max. Load 12 / 24V DC</b>	Continuous	600 Amps
	Intermittent	800 Amps (5 minutes)
	Cranking	2500 Amps (10 seconds)
<b>Max. Voltage</b>	48V DC	



#### 600 Amp Battery Master Switch

<b>Part Number</b>	Spare label set	9XT 998 011-001
6EK 998 540-061		

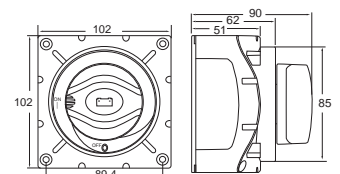


### 350 Amp Battery Selector Switch



Contour Lock system with removable plates for connection from all sides. This allows the switch to be a stand alone unit or locked together with battery distribution modules. Necessary for on board systems fed from 2 or more batteries and whose supply comes from more than 1 generator. Rotary switch in 4 switch positions of battery 1-2-Both-OFF. Switch can also be pad locked. Suitable for surface or recess mounting by cutting an 85mm diameter hole.

<b>Material Description</b>	Impact resistant plastic	
	Tin plated copper studs and nuts	
<b>Termination Stud Size</b>	3 x 10mm (3/4")	
<b>Operation</b>	1-2-Both-OFF	
<b>Degree of Protection</b>	IP 56	
<b>Max. Load 12 / 24V DC</b>	Continuous	350 Amps - B1 or B2
	Continuous	500 Amps - B1 and B2
	Intermittent	500 Amps (5 minutes)
	Cranking	1500 Amps (10 seconds)
<b>Max. Voltage</b>	48V DC	



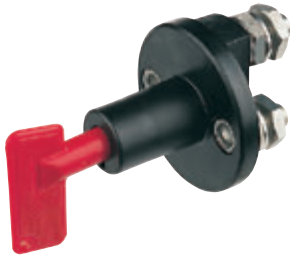
#### 350 Amp Battery Selection Switch

<b>Part Number</b>	
6EB 998 540-201	

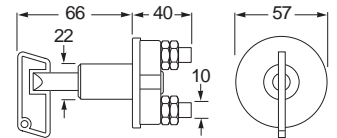


**2843 Series - 50 Amp Battery Master Switch**

Positive or negative cable can be switched as required.  
Key can be removed in the OFF position, current interrupted.



<b>Housing Description</b>	Impact resistant plastic
<b>Cable Connection</b>	2 screw terminals, M10
<b>Degree of Protection</b>	IP X4
<b>Max. load</b>	12V / max. 1000A (10 seconds) 24V / max. 500A (10 seconds) (compliant with VDA 72750)

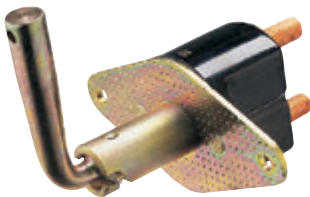


**50 Amp Battery Master Switch**

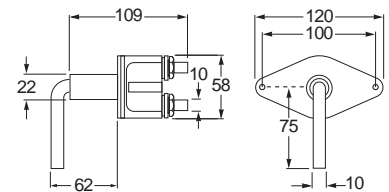
<b>Part Number</b>	<b>Spare Key Number</b>
6EK 002 843-011	9SL 706 729-011

**1559 Series - 100 Amp Battery Master Switch**

Heavy duty switch for high loads.  
Key can be removed in the OFF position, current interrupted. Positive or negative cable can be switched as required.



<b>Housing Description</b>	Impact resistant plastic Steel key and mounting plate
<b>Cable Connection</b>	2 screw terminals, M10
<b>Degree of Protection</b>	IP X4
<b>Max. Load</b>	12V / 24V max. 2500A (10 seconds)
<b>Max. Continuous Load</b>	12V / 24V max. 100A 24V / max. 2500A (10 seconds) (compliant with VDA 72750)



**100 Amp Battery Master Switch**

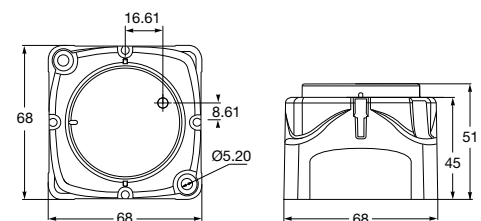
<b>Part Number</b>	<b>Spare Key Number</b>
6EK 001 559-001	9SL 042 991-001

**Voltage Sensitive Relay - "Dual battery charging made easy"**



The Voltage Sensitive Relay (VSR) allows two batteries to be charged at the same time. When the engine is started and the start battery reaches 13.7 volts, the VSR engages, allowing two battery banks (start and auxiliary) to be charged simultaneously. When the voltage drops below 12.8 volts (eg the engine is stopped), the VSR disengages, separating the batteries. This system eliminates the possibility of draining the start battery and protects sensitive electronic equipment powered from the auxiliary battery from harmful engine start up spikes.

<b>Housing Description</b>	Impact resistant plastic Tin copper studs and nuts
<b>Termination Stud Size</b>	2 x 6mm (1/4")
<b>Degree of Protection</b>	IP 56
<b>Voltage</b>	12V DC
<b>Max. Load 12 DC</b>	140 Amps
<b>Dimensions</b>	68 x 68 x 50mm (W x D x H)



**Voltage Sensitive Relay**

<b>Part Number</b>
5RD 998 556-011

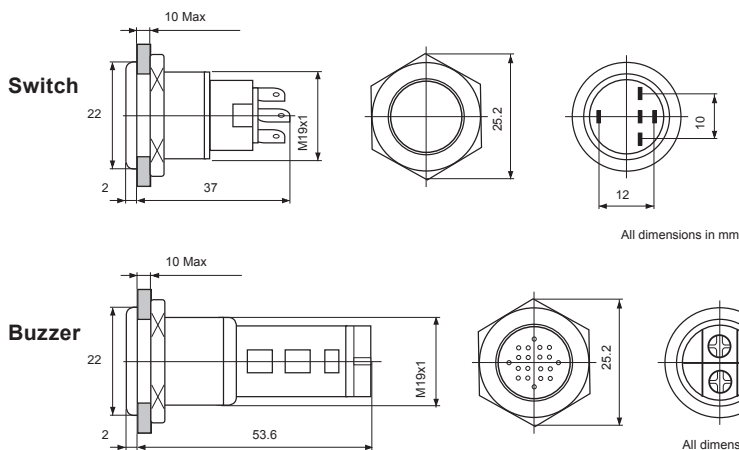
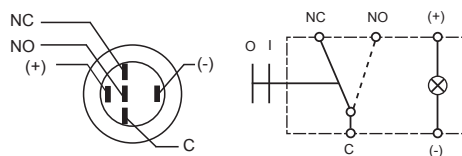
## Stainless Steel Switches

### 8455 Series Push Button Switches

Attractive, exterior durable, stainless steel switches featuring an attractive ring of LED light.

Manufactured from 304 stainless steel, these through panel mount switches are IP67 rated when installed and ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation. The range also includes matching stainless steel warning buzzers with LED light rings.

<b>Button Material</b>	304 Stainless Steel
<b>Body Material</b>	304 Stainless Steel
<b>Contact Material</b>	Silver Alloy
<b>Terminal Type</b>	5 Pin (2.8 x 0.5mm) switches 2 screws for buzzer
<b>Panel Thickness</b>	1~ 10mm
<b>Operating Temp</b>	-20°C~ +55°C
<b>Insulation Resistance</b>	≥ 1000mΩ
<b>Contact Resistance</b>	≤ 50mΩ
<b>Max. Switch Rating</b>	5A
<b>Degree of Protection</b>	IP 67 for switches IP 50 for buzzer
<b>Buzzer sound intensity</b>	>80dB (1m)



### Stainless Steel Switches with LED Ring - Latching

Light Colour	Voltage	Operation	Part Number
Red	12V DC	On / Off	8HG 958 455-001
Blue	12V DC	On / Off	8HG 958 455-011
Red	24V DC	On / Off	8HG 958 455-101
Blue	24V DC	On / Off	8HG 958 455-111

### Stainless Steel Switches with LED Ring - Momentary

Light Colour	Voltage	Operation	Part Number
Red	12V DC	Momentary	8HG 958 455-201
Blue	12V DC	Momentary	8HG 958 455-211
Red	24V DC	Momentary	8HG 958 455-301
Blue	24V DC	Momentary	8HG 958 455-311

### Stainless Steel Buzzers with LED Ring

Light Colour	Voltage	Operation	Part Number
Red	12V DC	Buzzer	8HG 958 456-001
Red	24V DC	Buzzer	8HG 958 456-101



**8572 Series - 2 Group Light Dimmer**



**Features:**

- Precise dimming control for 1 or 2 light groups
- Voltage regulation & 'soft-start' bulb protection
- Low voltage battery protection
- 12V and 24V DC

The Hella marine 2 Group Light Dimmer provides precise dimming control for one or two separate light groups, and sophisticated voltage regulation with a 'soft-start' feature to lengthen the life of a filament bulbs. The dimmer also provides low voltage protection against deep battery discharge.

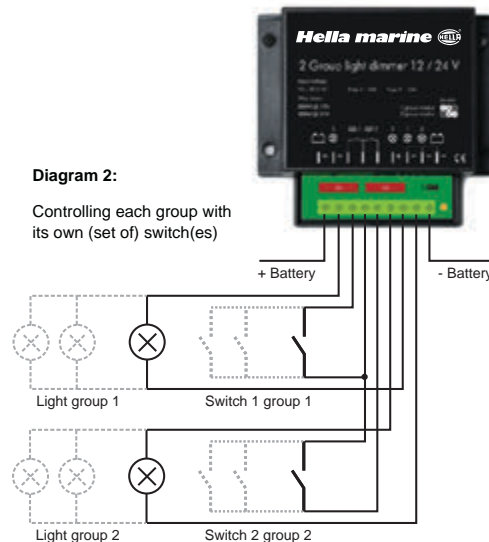
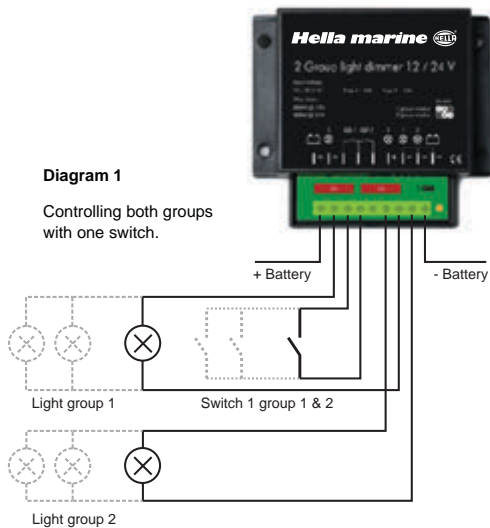
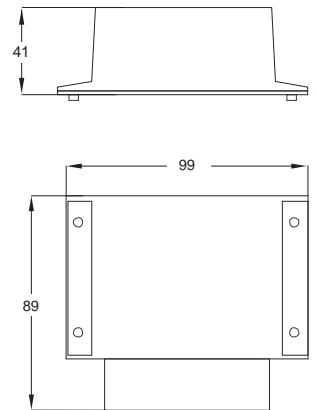
When batteries are charged voltage can rise to 14.4V on 12V systems or 28.8V on 24V systems, this can shorten the life of bulbs.

The 2 Group Dimmer increases bulb life through sophisticated internal voltage regulation, ensuring the lighting circuit voltage does not rise above 12V or 24V. As halogen bulbs also have a high inrush current on start up, the 2 Group Dimmer features 'soft-start' to further lengthen bulb life.

The dimmers low voltage protection also protects against deep battery discharge.

Lights will turn off automatically when battery voltage is lower than 9V on a 12V system or lower than 18V on a 24V system. Lights can be switched on again when the battery is charged and reaches 12V or 24V respectively.

<b>Max. Load</b>	200W at 12V and 400W at 24V
<b>Max. Load Per group</b>	100W at 12V and 200W at 24V
<b>Input Voltage Range</b>	8 - 30V DC
<b>System Voltage</b>	12V or 24V DC
<b>Number of Groups</b>	2
<b>Switches Per Group</b>	Unlimited
<b>Switch Type</b>	Momentary normally open
<b>Weight</b>	140 grams
<b>Protections</b>	Overload, Temperature, Low voltage
<b>Fuse</b>	2 x 10A



**2 Group Light Dimmer**

**Part Number**  
5XA 998 572-001

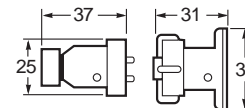


## Plugs and Sockets

### Water Resistant Plugs and Sockets



Chrome brass plugs and sockets for exterior or interior installations.  
Socket includes plastic cap.  
Plug suitable for cable up to 6.5mm diameter.



<b>Material Description</b>	Chrome brass housings. Brass contacts
<b>Maximum Load</b>	22A at 12V
<b>Installation</b>	Screw terminals

#### Water Resistant Plugs and Sockets

Description	Part Number
2 Pin	8JA 002 <b>620</b> -801
3 Pin	8JA 002 <b>807</b> -801
4 Pin	8JA 002 <b>957</b> -801

### Chrome Brass Deck Glands - Ensures waterproof cable entry.



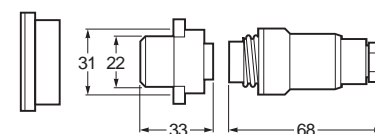
Cable Diameter	Gland dimensions	Part Number
Cables up to 8mm dia.	18mm high x 32mm base diameter	9NM 004 <b>208</b> -001
Cables up to 12mm dia.	18mm high x 38mm base diameter	9NM 004 <b>209</b> -001

### Waterproof Plugs and Sockets



Watertight plastic plugs and sockets for exterior or interior installations.  
Socket includes plastic cap.  
Plug suitable for cable up to 8.0mm diameter.

<b>Material Description</b>	Impact resistant plastic housing Silver contacts.
<b>Degree of Protection</b>	IP 67
<b>Maximum Load</b>	2 to 4 pin: 16A at 12V. 7 pin: 10A at 12V
<b>Installation</b>	2 to 4 pin: Screw terminals 7 pin: Solder terminals
<b>Mounting</b>	2 to 4 pin: Flush mounting 7 pin: Surface mounting



#### Waterproof Plugs and Sockets

Description	Part Number
2 Pin Plug and Socket	8JA 006 <b>801</b> -801
3 Pin Plug and Socket	8JA 006 <b>803</b> -801
4 Pin Plug and Socket	8JA 006 <b>805</b> -801
7 Pin Plug and Socket	8JA 006 <b>807</b> -801

### Mounting Ring

For surface mounting of the socket.  
Includes stainless steel screws and rubber gasket

**Part Number**  
8XT 006 **798**-001



**Bilge Pumps**

Hella marine bilge pumps are completely submersible, vibration resistant and maintenance free. Removable base plate allows cleaning of the intake chamber and also serves as a mounting plate.

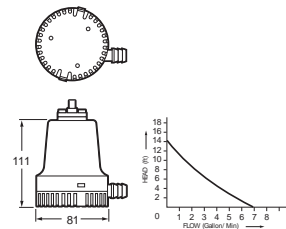
For reliable operation and safety Hella marine recommends the following rules be followed:

- Use to pump bilge water only.
- Do not leave permanently submerged in water contaminated with oils or cleaning products.
- Test regularly.
- Clean the strainer regularly.
- Do not use with unreliable float switches.
- Do not use to compensate for a leaking vessel.
- Do not use as continuous duty live bait tank pumps.



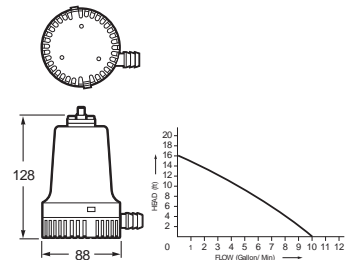
**8TW 005 342-001**

<b>Pumping Capacity</b>	1500 l/h / 400 GPH
<b>Voltage</b>	12V DC
<b>Delivery Head</b>	4.2m
<b>Power Consumption</b>	3.5A
<b>Outlet Hose Internal Diameter</b>	13.5mm
<b>Outlet Hose External Diameter</b>	20.0mm



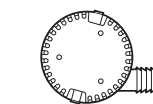
**8TW 005 343-001**

<b>Pumping Capacity</b>	2300 l/h / 600 GPH
<b>Voltage</b>	12V DC
<b>Delivery Head</b>	5m
<b>Power Consumption</b>	5A
<b>Outlet Hose Internal Diameter</b>	13.5mm
<b>Outlet Hose External Diameter</b>	20.0mm



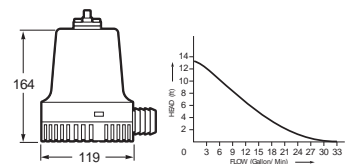
**8TW 005 344-001**

<b>Pumping Capacity</b>	6500 l/h / 1750 GPH
<b>Voltage</b>	12V DC
<b>Delivery Head</b>	4m
<b>Power Consumption</b>	10A
<b>Outlet Hose Internal Diameter</b>	25.0mm
<b>Outlet Hose External Diameter</b>	30.0mm

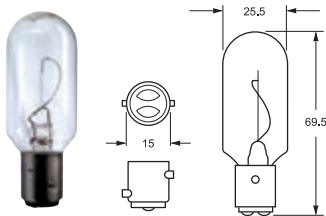


**8TW 005 344-011**

<b>Pumping Capacity</b>	6500 l/h / 1750 GPH
<b>Delivery Head</b>	4m
<b>Voltage</b>	24V DC
<b>Power Consumption</b>	5A
<b>Outlet Hose Internal Diameter</b>	25.0mm
<b>Outlet Hose External Diameter</b>	30.0mm

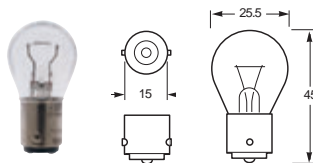


Replacement Bulbs



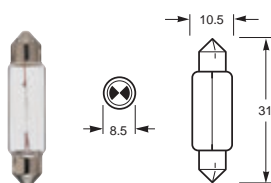
Navigation Lamp Bulbs. BAY15d Base

Part Number	Voltage	Wattage	Base
8GA 003 488-121	12	>10/12	BAY15d
8GA 003 488-301	12	25/30	BAY15d
8GA 003 488-131	24	>10/12	BAY15d
8GA 003 488-311	24	25/30	BAY15d



Navigation Lamp and Interior Lamp Bulbs. BA15s Base

Part Number	Voltage	Wattage	Base	ECE Category
8GA 002 071-121	12	5	BA15s	R 5W
8GA 002 071-241	24	5	BA15s	R 5W
8GA 002 071-131	12	10	BA15s	R 10W
8GA 002 071-251	24	10	BA15s	R 10W
8GA 002 071-271	12	21/5	BA15s	P 21/5W
8GA 002 070-121	12	15	BA15s	F
8GA 002 072-121	12	18	BA15s	R
8GA 002 072-241	24	18	BA15s	R
8GA 002 073-121	12	21	BA15s	P 21W
8GA 002 073-241	24	21	BA15s	P 21W



Navigation Lamp and Interior Lamp Bulbs. SV8.5 Base

Part Number	Voltage	Wattage	Base	ECE Category
8GM 002 091-131	12	10	SV8.5	K
8GM 002 091-251	24	10	SV8.5	K
8GM 993 406-001	12	10	SV8.5	
8GM 002 091-121	12	5	SV8.5	C 5 W
8GM 002 091-241	24	5	SV8.5	C 5 W

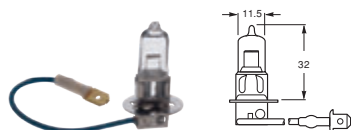


Replacement Bulbs



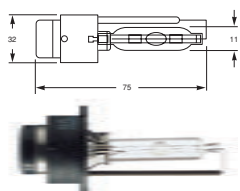
**Deck Floodlamp Bulb. GX5.3s Base**

Part Number	Voltage	Wattage	Base
8GH 998 529-001	12	20	GX5.3



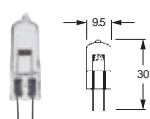
**Deck Floodlamp and Search Light Bulbs. PK22s 9s Base. H3**

Part Number	Voltage	Wattage	Base	ECE Category
8GH 002 090-131	12	55	PK22s	H3
8GH 002 090-251	24	70	PK22s	H3
8GH 002 090-151	12	100	PK22s	H3



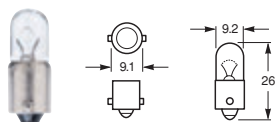
**Deck Floodlamp and Search Light Xenon capsules. D2S**

Part Number	Voltage	Wattage	Base	ECE Category
8GH 002 091-001	12/24	35	P32d-2	D2S



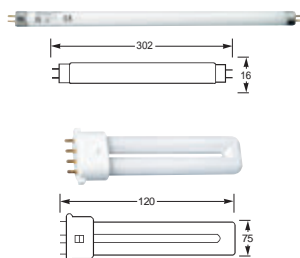
**Halogen Interior Lamp Bulbs. G4 Base**

Part Number	Voltage	Wattage	Base
8GH 005 758-141	12	5	G4
8GH 005 758-131	12	10	G4
8GH 005 758-121	12	20	G4
8GH 005 758-241	24	20	G4
8GH 005 758-251	24	10	G4
8GH 005 758-261	28	10	G4
8GH 005 758-271	28	20	G4



**Halogen Interior Lamp Bulbs. BA9s Base**

Part Number	Voltage	Wattage	Base	ECE Category
8GH 002 473-132	12	2	BA9s	
8GH 002 473-151	12	5	BA9s	
8GH 002 067-121	12	4	BA9s	T 4 W
8GH 002 067-241	24	4	BA9s	T 4 W
8GH 002 066-122	12	6	BA9s	



**Compact Fluorescent Tubes. TL8 and 2G7 Base**

Part Number	Wattage	Base	Luminous Flux
8GS 861 953-001	8	TL8	400 lm
8GS 861 955-001	7	2G7	400 lm
8GS 861 955-011	9	2G7	600 lm
8GS 861 955-021	11	2G7	900 lm

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2LT 995 002-161	24	2XT 980 502-241	91	2XT 980 587-231	91	8GS 861 955-001	119	9AR 998 019-011	101
2LT 995 002-171	24	2XT 980 502-251	91	2XT 980 587-241	91	8GS 861 955-011	119	9AR 998 019-011	93
2LT 995 002-181	24	2XT 980 502-291	91	2XT 980 587-251	91	8GS 861 955-021	119	9DS 998 528-001	55
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2LT 995 002-201	24	2XT 980 503-031	91	2XT 980 587-271	91	8HG 005 799-011	25	9EL 111 681-001	24
2LT 995 002-211	24	2XT 980 503-041	91	2XT 980 588-031	91	8HG 958 000-011	95	9EL 122 562-001	25
2LT 995 002-221	24	2XT 980 503-051	91	2XT 980 588-041	91	8HG 958 455-001	114	9EL 122 562-011	25
2LT 995 002-321	24	2XT 980 503-091	91	2XT 980 588-051	91	8HG 958 455-011	114	9EL 122 562-021	25
2LT 998 504-001	57	2XT 980 503-221	91	2XT 980 588-061	91	8HG 958 455-101	114	9EL 122 562-031	25
2LT 998 504-011	57	2XT 980 503-231	91	2XT 980 588-071	91	8HG 958 455-111	114	9EL 122 562-081	25
2LT 998 505-001	56	2XT 980 503-241	91	2XT 980 588-231	91	8HG 958 455-201	114	9EL 122 562-091	25
2LT 998 505-011	56	2XT 980 503-251	91	2XT 980 588-241	91	8HG 958 455-211	114	9EL 122 562-101	25
2PF 959 570-202	108	2XT 980 503-291	91	2XT 980 588-251	91	8HG 958 455-301	114	9EL 122 562-111	25
2PF 959 570-212	108	2XT 980 507-021	91	2XT 980 588-261	91	8HG 958 455-311	114	9EL 123 669-001	25
2PF 959 590-202	108	2XT 980 507-031	91	2XT 980 588-271	91	8HG 958 456-001	114	9EL 123 669-011	25
2PF 959 590-212	108	2XT 980 507-041	91	2ZR 959 010-501	107	8HG 958 456-101	114	9EL 127 083-001	26
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2SD 959 010-201	107	2XT 980 507-221	91			8HG 959 952-012	87	9EL 127 083-031	26
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2XA 959 560-401	108	2XT 980 507-301	91			8HG 959 993-112	91	9EL 127 083-091	26
2XA 959 560-411	108	2XT 980 507-371	77			8HG 959 993-112	101	9EL 127 083-101	26
2XA 959 790-401	108	2XT 980 507-381	77	6EB 998 540-201	112	8HG 959 993-512	91	9EL 127 083-111	26
2XA 959 790-411	108	2XT 980 508-021	91	6EK 001 559-001	113	8HG 959 993-512	101	9EL 990 157-001	24
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2XT 980 501-541	91	2XT 980 583-031	91	8GH 005 758-121	119	9AB 959 585-022	101		
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2XT 980 501-741	91	2XT 980 583-231	91	8GH 005 758-261	119	9AB 994 554-012	101		
2XT 980 501-751	91	2XT 980 583-241	91	8GH 005 758-271	119	9AB 994 554-022	101		
2XT 980 501-791	91	2XT 980 583-251	91	8GH 998 529-001	119	9AB 994 554-032	101		
2XT 980 502-021	91	2XT 980 583-261	91	8GM 002 091-121	118	9AB 994 554-062	101		







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