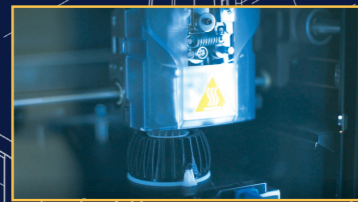


# LED Lighting Solutions for Challenging Environments

Whatever you need, we make it possible

LightPartner sees itself as your creative partner who examines individual ideas and concepts creatively, implements them innovatively and advises you competently. From the first pencil outline of an idea to the prototype and from there all the way to the finished product, we require very little time. And finishing is carried out according to the highest quality standards:

> High-end products for high-end ships.



expertise  
commitment  
reliability  
innovation  
partnership

## Leading in marine lighting

In addition to know-how, high quality and punctual delivery, LightPartner also offers an extremely favorable cost-benefit ratio here. Functional, low-maintenance and long-lasting, our lighting units meet all requirements of modern, cost-optimized shipping.

> The name LightPartner stands for leading state-of-the-art technology.

Settings standards for quality and service  
when it comes to lighting solutions.

This is the world of LightPartner.



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www.lightpartner.de



The bright side of the ship





**TL Vario**  
WATERTIGHT LUMINAIRE FOR OPEN DECKS AND DECK RAILS, ABLE TO RESIST HEAVY SEAS, IP66/67

**DE80**  
SHOCK PROOFED RECESSED MOUNTED CEILING LUMINAIRE

**ST76 M LED**  
HIGH EFFICIENT, STAINLESS STEEL LED FLOODLIGHTS FOR DECKS, HOLDS, INDUSTRIAL AREAS, IP67

**TL40M**  
SHOOK PROOFED MULTIPURPOSE WATERTIGHT LUMINAIRE FOR SPECIAL APPLICATIONS

# LED Lighting Solutions for Challenging Environments



**TL53**  
PRESSURE WATERTIGHT LUMINAIRE FOR OPEN DECKS AND DECK RAILS, ABLE TO RESIST HEAVY SEAS, IP68

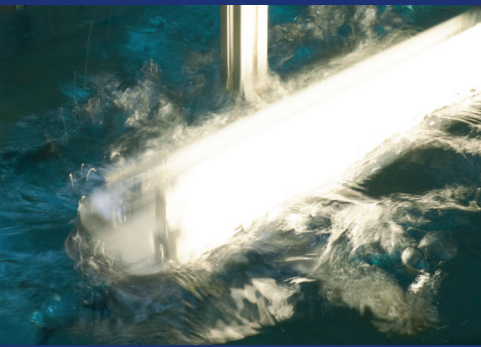
**DL225**  
FLAT SURFACE LED DOWNLIGHT WITH OPTIONAL RED LIGHT, SPECIAL VERSION IN SHOOK PROOFED

**TL09 sign**  
MULTIPURPOSE WATERTIGHT LUMINAIRE FOR DECKS, STORES, ENGINE ROOMS, IP67

**SL09**  
SHOCK PROOF SAFETY ORIENTATION LED LIGHT

## IP

The IP Code classifies and rates the degree of protection provided against dust and water. The European standard is EN 60529. The code is divided in two digits. The first digit indicates the level of protection against the ingress of solid foreign objects. The Level of protection against ingress of water is indicated in the second digit. LightPartner provides solutions according to the required minimum degrees of IP protection in accordance with the different environmental conditions related to the locations on board.



## EMC

Electromagnetic waves surround us everywhere. These electromagnetic waves are simply called radio waves. Every electronic device creates unwanted radio waves, mostly on different broadband frequencies. EMI or electromagnetic interference is the unwanted interaction between two electronic devices caused by radio waves. IEC 60533 specifies minimum requirements for emission, immunity and performance criteria regarding electromagnetic compatibility.

LightPartner uses a wide range of solutions to fulfill all customer-specific EMC requirements. For example special EM filters for transmission reduction, surge and burst protections against conducted EM receptions, shielded cable glands for general EMI reduction or high quality electronics that have high EMC standards in general.

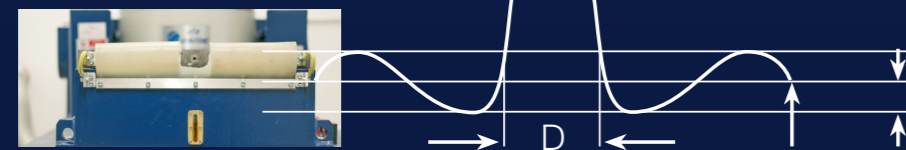
## Special light

LightPartner is very well positioned in the area of special light colors. There are red lights for the bridge as well as products that are NVG compatible and also, luminaires with amber light.



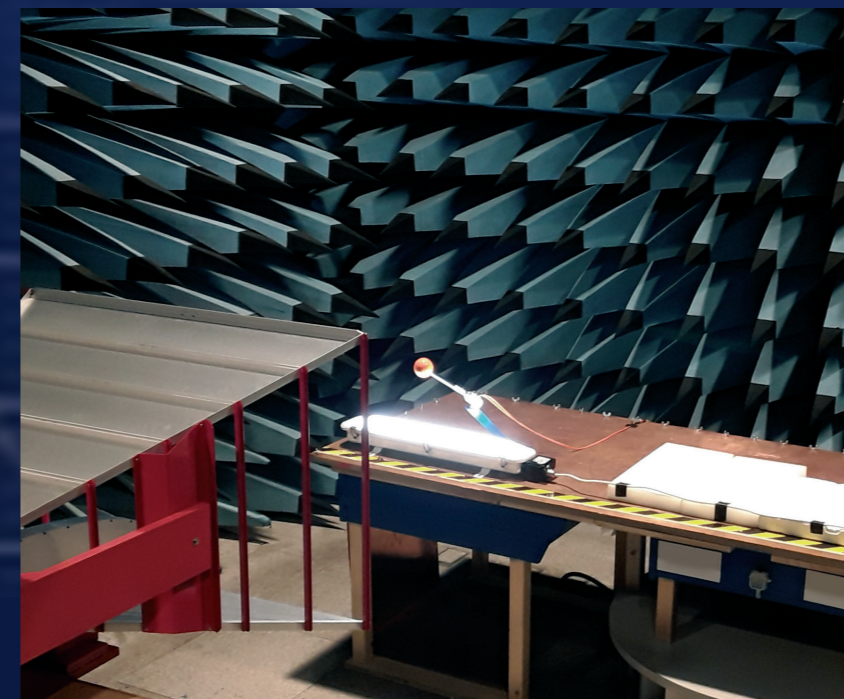
## Shock and vibration

In the maritime sector, shock and vibration are a critical consideration. A ship is always in motion and depending on the environment significant heavy loads can occur. However, there are also cases of application with significantly higher requirements, for example, as in the navy. In addition to vibration resistant luminaires, LightPartner also has shockproof luminaires that have been tested up to 180g-force.



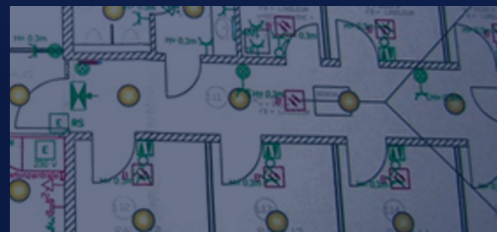
## Temperature

Globally many different climatic situations exist. Likewise, there are various areas on board with very different temperatures, such as a cold rooms or machinery spaces. LightPartner has climatic chambers to test all possible temperatures and humidity. This enables us to always ensure that we have a suitable product for all different applications.



## Emergency

Light. Everywhere. Anytime. Safety on board is a principal requirement. In case of a power failure the emergency luminaire will automatically operate to take over the marking or the lighting of the escape and emergency exit for the stated duration shown on the luminaire. LightPartner has developed single battery luminaires as well as different systems for central back-up systems. Available are solutions with different board voltages and low voltage systems.



[www.lightpartner.de](http://www.lightpartner.de)