



A Guide to Critical Marine Lighting Standards and Vessel Compliance

What you need to know about marine lighting certifications and how they improve marine vessel compliance

The Challenge Marine Operators Face Today

Marine operators are faced with increasingly tighter regulations for vessel lighting. Any part of a vessel found to have non-compliant lighting, especially exterior and navigation lighting, can result in hefty fines or loss of certifications for the vessel and its operator.

While cost, quality and delivery time of fixtures are important considerations during procurement, operators must also determine if fixtures comply with marine lighting regulations such as ABS, IP, UL and USCG navigation lighting requirements. It's also important to understand the real-world applications for these certifications.

In this guide, you'll learn about the lighting certifications and standards you should expect from your lighting supplier. You'll also gain insights into the highest priority considerations of marine lighting allowing you to make smarter purchasing decisions moving forward.

Marine Lighting Standards and How They Safeguard Operators

In the unpredictable conditions of operating in marine environments, exterior and navigation lights of a marine vessel are key safety measures. Marine operators must adhere to strict regulations to ensure their own safety and those operating around them. Having in-depth knowledge of lighting certifications can safeguard them from unwanted lighting failures or being penalized. Therefore, it's crucial to choose the right lighting.

Keep Your Vessels Compliant with Lighting Regulations

In most cases, a marine vessel is built for a specific role and operational environment. It's important to understand the requirements of your vessels before selecting marine-rated fixtures. Use this guide as an indicator of what you should look out for in superior LED fixtures that are compliant with marine regulations, ensuring that your fixtures adhere to strict safety and utility standards.

Phoenix Lighting fixtures are compliant with many key marine certifications, including the following:

Certification	Application Suitability	Operational Applications
UL 1598	Suitable for wet locations	Suitable for marine vessels operating in freshwater conditions, like rivers or lakes, away from coastal areas
UL 1598A	Marine certified for saltwater applications	Suitable for marine vessels operating in corrosive, saltwater environments
IP66/IP67	Withstands periods of intense waves and/or heavy spray without failing	Suitable for marine vessels that are required to operate in challenging conditions and endure heavy spray
IP69K	Withstands periods of high-pressure spray without failing	Suitable for marine vessels operating under strong and constant impact in wet and harsh conditions. Fixtures can withstand water intrusion from high-pressured sprays at high temperatures
ABS	Meets the American Bureau of Shipping's marine engineering guidelines	Suitable for marine vessels operating in U.S. and international waters, ensuring vessels meet global safety standards wherever you operate
CE Certified	Tested and proven to limit electromagnetic and radio interference	Suitable for marine vessels that work in tandem with other vessels, ensuring zero interference with radio communication

Benefit from an Experienced, U.S.-based Marine Lighting Solutions Provider

Phoenix Lighting has over 75 years of experience in marine lighting. Aside from having a full range of Buy American Act compliant marine lights that meet marine certifications, as a U.S.-based manufacturer, our lights are available when you need them, from inventory held nationwide and our network of distribution partners.



Thoroughly Tested

We ensure all our marine-grade fixtures are tested and certified with the above regulatory bodies so marine operators can have peace of mind when procuring from us.



Quality Construction

Our lights and lenses are waterproof. LED drivers are fully potted, protecting them from water intrusion and interference when operating in harsh marine environments.







High Durability

Our sturdy mounting brackets are made from 316 stainless steel or powder coated steel, high-quality materials that ensure long-term durability in demanding conditions.



Choose from a Wide Range of Marine Grade Fixtures

We offer a range of ready-made, marine-rated fixtures that can be delivered to you in two weeks or less. We also provide customized lighting solutions based on your needs. See what we have to offer and each fixture's specifications.

Fixture Model	Specifications
	SturdiSignal™ Series <ul style="list-style-type: none"> • Applications: Navigation lights and control panel for vessels of all sizes greater than 20m • Certifications: UL, IP68, ABS, IMO • Under 50m (2NM - 5NM) and over 50m (3NM - 6NM) installation options
	Command Flood® Series <ul style="list-style-type: none"> • Applications: Exterior deck, perimeter and general purpose flood lighting • Certifications: UL, IP66, ABS • 120W, 240W and 360W options • Outputs 15,300, 32,000 and 48,000 lumens respectively
	Wayfinder™ <ul style="list-style-type: none"> • Applications: Low profile locations and doorways, Sub-M emergency lighting, stairways and walkways • Certifications: UL, CE, IP66, ABS • 9W, outputs up to 1100 lumens
	ReadiLED™ Series <ul style="list-style-type: none"> • Applications: Cargo area, engine room, interior spaces • Certifications: UL, CE, IP65, ABS • 19W (2-foot fixture) and 38W (4-foot fixture)

Fixture Model

Specifications



HDL-LED Series

- Applications: Cargo holds when hazardous ratings are required, exterior deck lighting
- Certifications: UL, CE, IP67, ABS
- 28W, 55W and 83W options



Metallic LED VP Series

- Applications: Walkway, doorway and perimeter lighting rated for hazardous and wet locations
- Certifications: UL, IP66, ABS
- 17W, outputs 1336 lumens



ModCom® 2 Series

- Applications: Waterline perimeter lighting, general purpose above-deck flood lighting and portal crane lighting when hazardous ratings are required
- Certifications: UL, CE, IP67, IP69K, ABS
- 125W, 240W and 355W options
- Outputs 14,000, 28,000 and 42,000 lumens respectively
- Multiple custom CCT options available



Cube-Light

- Applications: Outdoor or indoor low profile locations, doorways and indicator lighting
- Certifications: UL, CE, IP66, ABS
- 13W, outputs 1000 lumens

**Want your next project to be compliant
with the highest marine standards?**

[Let us know how we can help.](#)

