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Global Red Nav Light Lens Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Red Nav Light Lens market size is expected to reach $ 68.76 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

In 2025, global Red Nav Light Lens production reached approximately 4,520 K pcs, with an average global market price of around 10.5 US$/pc.

Red Nav Light Lens refers to the red optical lens or red light-transmitting cover used in navigation and position lighting systems, mainly for marine vessels and aircraft. In marine applications, it is commonly used on the port side of boats, ships, rescue craft, and offshore equipment to indicate vessel direction and support collision avoidance at night or in low-visibility conditions. In aviation applications, it is used in red position lights mounted on the left wingtip or aircraft body to identify aircraft orientation. The lens is usually made of polycarbonate, acrylic, PMMA, glass, or other optical materials, and must provide stable red light transmission, weather resistance, UV resistance, impact resistance, and compliance with visibility-angle and signaling requirements.

Demand for Red Nav Light Lens is mainly driven by replacement needs in marine and aviation maintenance, growth in recreational boating, commercial vessel safety upgrades, aircraft aftermarket repair, and the wider adoption of LED navigation lighting. Since lenses are exposed to sunlight, salt spray, vibration, rain, and impact, aging, fading, cracking, and reduced optical clarity create recurring replacement demand. Business opportunities are strongest in durable UV-resistant polymer lenses, sealed LED-integrated lens assemblies, certified aviation replacement lenses, and marine navigation light spare parts that meet international visibility and safety standards. Manufacturers can also benefit from supplying customized lenses for boats, patrol vessels, rescue craft, drones, small aircraft, and retrofit lighting systems, especially

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where customers require longer service life, better optical consistency, and easier installation.

This report studies the global Red Nav Light Lens production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Red Nav Light Lens and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Red Nav Light Lens that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Red Nav Light Lens total production and demand, 2021-2032, (K Pcs)
Global Red Nav Light Lens total production value, 2021-2032, (USD Million)
Global Red Nav Light Lens production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)
Global Red Nav Light Lens consumption by region & country, CAGR, 2021-2032 & (K Pcs)
U.S. VS China: Red Nav Light Lens domestic production, consumption, key domestic manufacturers and share
Global Red Nav Light Lens production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)
Global Red Nav Light Lens production by Material Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)
Global Red Nav Light Lens production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Red Nav Light Lens market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Perko Inc., Glamox AS, FORVIA, Navico Group, Innovative Lighting, Whelen Aerospace Technologies, Lopolight ApS, Sea-Dog Corporation, Accon Marine, Lumitec Lighting, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

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used in analyzing the World Red Nav Light Lens market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Pcs) and average price (US$/Pcs) by manufacturer, by Material Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Red Nav Light Lens Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Red Nav Light Lens Market, Segmentation by Material Type:

- Polycarbonate Lens
- Acrylic / PMMA Lens
- Borosilicate Glass Lens
- Tempered Glass Lens

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Silicone / Flexible Polymer Lens

Others

Global Red Nav Light Lens Market, Segmentation by Optical Visibility Range:

Short-Range Type: Below 1 NM

Standard Marine Type: 1?2 NM

Medium-Range Type: 2?5 NM

Long-Range Type: Above 5 NM

Global Red Nav Light Lens Market, Segmentation by Mounting Structure:

Snap-In Lens

Screw-Fixed Lens

Bayonet-Fit Lens

Sealed Integrated Lens

Flush-Mount Lens

Others

Global Red Nav Light Lens Market, Segmentation by Application:

Recreational Boats

Commercial Vessels

Fishing Vessels

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Aircraft

UAVs and Drones

Others

Companies Profiled:

Perko Inc.

Glamox AS

FORVIA

Navico Group

Innovative Lighting

Whelen Aerospace Technologies

Lopolight ApS

Sea-Dog Corporation

Accon Marine

Lumitec Lighting

Zhejiang Haiji Marine Electric

Weitong Marine

Shanghai Lansing Electronics

Shenzhen Gapray Lighting

KOITO Manufacturing

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Sanshin Electric

Nippon Sento

Nippon Koki Kogyo

Key Questions Answered:
1. How big is the global Red Nav Light Lens market?
2. What is the demand of the global Red Nav Light Lens market?
3. What is the year over year growth of the global Red Nav Light Lens market?
4. What is the production and production value of the global Red Nav Light Lens market?
5. Who are the key producers in the global Red Nav Light Lens market?
6. What are the growth factors driving the market demand?

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