

Global Light-Emitting Diodes Market Growth 2025-2031

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Abstracts

The global Light-Emitting Diodes market size is predicted to grow from US\$ 94210 million in 2025 to US\$ 226070 million in 2031; it is expected to grow at a CAGR of 15.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Light-Emitting Diodes (LEDs) are semiconductor devices that convert electrical energy directly into visible or non-visible light (such as infrared or ultraviolet) through electroluminescence. The core working principle involves the recombination of charge carriers at a PN junction, where the released energy is emitted as photons. Compared to traditional lighting technologies such as incandescent or fluorescent lamps, LEDs offer several advantages including high energy efficiency, long operational lifespan, fast response time, compact size, vibration resistance, and environmental friendliness. LEDs are widely used in general lighting, display panels, automotive lighting, backlighting, and signal indicators, among other applications. With ongoing advancements in materials and manufacturing processes, as well as declining costs, LEDs are rapidly replacing conventional light sources and becoming the mainstream solution in global lighting and display markets. Under the broader trends of carbon neutrality and improved energy efficiency, the LED industry is evolving toward higher brightness, smart integration, and miniaturization, driving continuous innovation across the optoelectronics sector.

Market Development Opportunities & Main Driving Factors

LEDs continue to benefit from energy-saving policies and growing demand for efficient

lighting. Urban upgrades, industrial retrofits, and rural electrification drive adoption. Mini/Micro LEDs expand into high-end displays, while emerging uses like smart lighting, automotive, and horticulture grow rapidly. Advances in chip and packaging tech improve performance, shifting the industry toward higher value-added segments.

Market Challenges, Risks, & Restraints

Intense competition, product homogenization, and raw material price volatility create pressure. Smaller firms face shrinking margins and price wars. Chip shortages and technical barriers in Mini/Micro LED mass production hinder commercialization. Declining policy subsidies may also dampen growth in certain markets.

Downstream Demand Trends

Downstream demand is becoming more diverse and intelligent. Traditional lighting remains stable but slows in growth. Displays—especially high-end TVs, wearables, and automotive screens—show strong momentum. With smart home adoption, LED integration with IoT and AI is accelerating, driving demand in office, healthcare, and education applications.

LP Information, Inc. (LPI) ' newest research report, the “Light-Emitting Diodes Industry Forecast” looks at past sales and reviews total world Light-Emitting Diodes sales in 2024, providing a comprehensive analysis by region and market sector of projected Light-Emitting Diodes sales for 2025 through 2031. With Light-Emitting Diodes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Light-Emitting Diodes industry.

This Insight Report provides a comprehensive analysis of the global Light-Emitting Diodes landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Light-Emitting Diodes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Light-Emitting Diodes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Light-Emitting Diodes and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of

opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Light-Emitting Diodes.

This report presents a comprehensive overview, market shares, and growth opportunities of Light-Emitting Diodes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Organic Light-Emitting Diodes

Polymer Light Emitting Diodes

Others

Segmentation by Application:

Electronics

Automotive

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Signify

Osram

Samsung

LG

Nichia

Seoul Semiconductor

Cree

Acuity Brands

BOE Technology

San'an Optoelectronics

PHILIPS

COOPER

GE Lighting

Warom Technology

Senben

Tormin

Ocean King Lighting

Key Questions Addressed in this Report

What is the 10-year outlook for the global Light-Emitting Diodes market?

What factors are driving Light-Emitting Diodes market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Light-Emitting Diodes market opportunities vary by end market size?

How does Light-Emitting Diodes break out by Type, by Application?

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