

Global Light-emitting Diode (LED) Market Growth 2025-2031

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Abstracts

The global Light-emitting Diode (LED) 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.

A light-emitting diode (LED) is a two-lead semiconductor light source. It is a p–n junction diode that emits light when activated. When a suitable current is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons. This effect is called electroluminescence, and the colour of the light (corresponding to the energy of the photon) is determined by the energy band gap of the semiconductor. LEDs are typically small (less than 1 mm²) and integrated optical components may be used to shape the radiation pattern.

LED uses fall into three major categories which are Indicators and signs, Data communication and signaling, and Lighting. The low energy consumption, low maintenance and small size of LEDs has led to uses as status indicators and displays on a variety of equipment and installations. Large-area LED displays are used as stadium displays, dynamic decorative displays, and dynamic message signs on freeways. Thin, lightweight message displays are used at airports and railway stations, and as destination displays for trains, buses, trams, and ferries. With the development of high-efficiency and high-power LEDs, it has become possible to use LEDs in lighting and illumination. LEDs are used as street lights and in other architectural lighting. The mechanical robustness and long lifetime are used in automotive lighting on cars,

motorcycles, and bicycle lights. Light can be used to transmit data and analog signals. For example, lighting white LEDs can be used in systems assisting people to navigate in closed spaces while searching necessary rooms or objects.

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

This Insight Report provides a comprehensive analysis of the global Light-emitting Diode (LED) 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 Diode (LED) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Light-emitting Diode (LED) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Light-emitting Diode (LED) and breaks down the forecast by Technology, 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 Diode (LED).

This report presents a comprehensive overview, market shares, and growth opportunities of Light-emitting Diode (LED) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Technology:

Ultraviolet LED

Polymer LED

Organic LED

Basic LED

High Brightness LED

Segmentation by Application:

Residential

Commercial

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.

Cree

GE Lighting

LG Innotek

NICHIA

OSRAM

Philips Lighting

Samsung Electronics

Dialight

Eaton

Emerson

Everlight Electronics

Seoul Semiconductor

Toyoda Gosei

Key Questions Addressed in this Report

What is the 10-year outlook for the global Light-emitting Diode (LED) market?

What factors are driving Light-emitting Diode (LED) market growth, globally and by region?

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

How do Light-emitting Diode (LED) market opportunities vary by end market size?

How does Light-emitting Diode (LED) break out by Technology, by Application?

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