

LED Lighting Market Report by Application (Retrofit, Retail and Hospitality, Outdoor, Offices, Architectural, Homes, Industrial), and Region 2024-2032

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Abstracts

The global LED lighting market size reached US\$ 83.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 178.0 Billion by 2032, exhibiting a growth rate (CAGR) of 8.6% during 2024-2032. The growing demand for energy-efficient and cost-saving lighting solutions, rising environmental concerns among individuals across the globe, and favorable government initiatives to reduce emissions are some of the major factors propelling the market.

Light emitting diode (LED) lighting is a highly energy-efficient and long-lasting lighting technology. It is a semiconductor device that emits light when an electric current passes through it. It is a cost-effective lighting solution that has lower carbon emissions and consumes less energy as compared to incandescent and fluorescent bulbs. It is also resistant to shock, vibration, and temperature fluctuations and provides improved durability. It produces directional light that allows for precise illumination without the need for additional reflectors or lenses. It assists in offering a long lifespan while reducing maintenance and replacement costs.

At present, the increasing adoption of LED lighting, as it offers enhanced color rendering that ensures accurate representation of colors, is impelling the growth of the market. Additionally, the growing employment of LED lighting due to the increasing demand for durable and long-lasting lighting solutions among the masses across the globe is offering a positive market outlook. Apart from this, the rising consumer preference for environmentally friendly products is offering lucrative growth opportunities to industry investors. In line with this, technological advancements in LED lighting to provide enhanced lighting quality, efficiency, and versatility are bolstering the growth of the market. Besides this, the rising employment of LED lighting on account of

the increasing number of renovation and construction activities around the world is strengthening the growth of the market.

LED Lighting Market Trends/Drivers:

Rising demand for energy-efficient and cost-saving lighting solutions

There is a rise in the demand for energy-efficient and cost-effective lighting solutions among the masses around the world. LEDs convert a higher percentage of electrical energy into light, which saves a significant amount of energy. There is also an increase in the demand for LED lighting, as it assists in reducing electricity bills. In addition, LED lighting systems offer substantial long-term savings as compared to traditional lighting options. LED lighting has a longer lifespan that reduces the frequency of bulb replacements. Moreover, the energy efficiency of LED lighting aids in reducing electricity consumption and lowering utility bills over time. Various businesses are increasingly adopting LED lighting solutions to maintain a sustainable environment, which is contributing to the growth of the market.

Increasing environmental concerns among individuals

There is a rise in the adoption of LED lighting due to the increasing environmental awareness among the masses around the world. People are increasingly preferring sustainable lighting solutions that assist in reducing pollution in the environment. They are seeking eco-friendly alternatives to traditional lighting options. LED lighting does not contain hazardous substances, such as mercury, which is commonly found in fluorescent bulbs. In addition, LED is safer for both human health and the environment, which is positively influencing the market. Apart from this, the rising demand for energy-efficiency lighting, as it aids in lowering greenhouse gas (GHG) emissions is contributing to the growth of the market.

Favorable government initiatives

Governing agencies of various countries are encouraging the adoption of energy-efficient lighting solutions to curb pollution in the environment. They are implementing numerous policies and regulations to reduce emissions across the globe. In addition, they are also offering several incentives and subsidies and mandating energy efficiency standards, which is providing a positive market outlook. Various organizations are increasingly promoting energy efficiency measures to encourage the adoption of LED lighting. Governing authorities are also focusing on meeting energy efficiency targets and promoting a cleaner environment. Apart from this, LED lighting is gaining popularity

due to the increasing concerns about climate change and environmental sustainability.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global LED lighting market report, along with forecasts at the global and regional levels from 2024-2032. Our report has categorized the market based on application.

Breakup by Application:

Retrofit

Retail and Hospitality

Outdoor

Offices

Architectural

Homes

Industrial

Retrofit represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the application. This includes retrofit, retail and hospitality, outdoor, offices, architectural, homes, and industrial. According to the report, retrofit represented the largest segment.

Retrofit application refers to the replacement of existing lighting fixtures with LED lighting solutions. It comprises residential, commercial, and industrial retrofit projects wherein traditional lighting technologies, such as incandescent, fluorescent, and halogen bulbs, are replaced with energy-efficient LED alternatives. In addition, retrofitting offers a cost-effective way to upgrade lighting systems without changing the entire infrastructure.

There is a rise in the employment of LED lighting in retail and hospitality applications, such as supermarkets, shopping malls, stores, hotels, and restaurants, to enhance product visibility, improve color rendering, and create appealing lighting environments for showcasing merchandise is propelling the market growth. Moreover, LED lighting is widely adopted in entertainment venues to highlight architectural features and enhance guest experiences.

The outdoor lighting segment comprises a wide range of applications, such as street lighting, parking lots, stadiums, and public spaces. In line with this, LED streetlights are

increasingly replacing traditional high-pressure sodium or mercury vapor lamps in urban and rural areas due to their energy-saving potential and improved lighting quality. Additionally, the rising utilization of LED lighting outdoors for providing enhanced aesthetics, safety, and efficiency is bolstering the market growth.

Offices require adequate lighting for optimal productivity, comfort, and the well-being of employees. LED lighting offers an enhanced light distribution, reduced glare, and creates a more pleasant and conducive work environment. LED lighting systems can be easily integrated with smart controls and lighting management systems that allow precise control of lighting levels and scheduling and dimming options.

Breakup by Region:

India
China
Europe
Japan
Brazil
Russia
United States

China exhibits a clear dominance, accounting for the largest LED lighting market share

The report has also provided a comprehensive analysis of all the major regional markets, which include India, China, Europe, United States, Japan, Brazil, and Russia. According to the report, China accounted for the largest market share.

China held the biggest market share, as it is the manufacturing powerhouse for the LED lighting industry. In addition, rising technological advancements in LED lighting for improved efficiency are propelling the growth of the market. Apart from this, governing agencies in the country is rapidly promoting the adoption of LED lighting by offering various incentives and subsidies, which is supporting the growth of the market. Additionally, the growing demand for LED lighting in residential areas is positively influencing the market in China.

The United States is estimated to expand further in this domain, owing to the increasing number of infrastructure projects. In line with this, the rising awareness about energy conservation among individuals in the country is bolstering the growth of the market. Furthermore, the increasing demand for LED lighting due to favorable government

initiatives is contributing to the growth of the market.

Competitive Landscape:

Key players are focusing on improving energy efficiency, lifespan, brightness, color accuracy, and functionality of LED lighting solutions. They are also offering a wide range of LED lighting in different shapes, sizes, color temperatures, and smart lighting features to cater to the diverse needs of customers. Apart from this, major manufacturers are developing specialized lighting solutions, such as retrofitting LED bulbs, downlights, spotlights, linear fixtures, high-bay lights, and streetlights, for residential, commercial, industrial, and outdoor environments. In line with this, many companies are participating in energy efficiency certification programs and adhering to industry standards to showcase eco-friendly and energy-efficient products. Furthermore, they are optimizing manufacturing processes and supply chain management to reduce the production costs of LEDs.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Nichia Corporation
Everlight Electronics
LG Innotek
OSRAM GmbH (ams OSRAM AG)
Samsung Electronics

Recent Developments:

In November 2018, Samsung Electronics Co., Ltd. announced new horticulture LED lineups, such as full-spectrum packages and modules and color (monochromatic) LEDs that reduce lighting costs and enhance plant cultivation.

In December 2021, Signify announced the agreement with OSRAM to acquire Austin, which will strengthen the global agriculture lighting growth platform and extend their position in the attractive North American horticultural lighting market.

In January 2023, Nichia Corporation and Infineon Technologies AG announced the launch of the industry's first fully integrated micro-LED (hereinafter μ PLS light engine) light engine for high-definition (HD) adaptive driving beam applications.

Key Questions Answered in This Report

1. What was the size of the global LED lighting market in 2023?

2. What is the expected growth rate of the global LED lighting market during 2024-2032?
3. What are the key factors driving the global LED lighting market?
4. What has been the impact of COVID-19 on the global LED lighting market?
5. What is the breakup of the global LED lighting market based on the application?
6. What are the key regions in the global LED lighting market?
7. Who are the key players/companies in the global LED lighting market?

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