

Led Street Light Market Outlook 2025-2034: Market Share, and Growth Analysis By Connectivity (Wired, Wireless), By Sales Channels (Direct, Indirect), By Applications

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Abstracts

The Led Street Light Market is valued at USD 14.9 billion in 2025 and is projected to grow at a CAGR of 19.9% to reach USD 76.5 billion by 2034. The LED street light market has become a cornerstone in global urban infrastructure transformation, driven by the need for energy efficiency, lower maintenance costs, and improved public safety. Unlike traditional sodium vapor or halogen-based lighting systems, LED street lights offer high luminous efficacy, longer operational life, and better light directionality. Governments across developed and developing nations are adopting LED street lighting solutions to reduce carbon footprints and electricity bills under smart city initiatives. Additionally, features such as dimming capabilities, motion sensors, and remote monitoring are being embedded to enhance performance and enable intelligent control. As a result, LED street lighting is no longer viewed merely as a utility but as a foundational element of future-ready, connected urban environments. Global deployments of LED street lights accelerated, particularly in Asia-Pacific, North America, and parts of Africa, supported by green infrastructure funding and public-private partnerships. Several cities upgraded legacy systems with LED solutions integrated with adaptive lighting controls to optimize brightness based on pedestrian or vehicular movement. Countries like India and Brazil expanded national LED programs under energy efficiency missions, significantly reducing public energy consumption. Smart pole technology gained traction, with companies embedding EV charging stations, cameras, and 5G antennas into LED lighting units. Meanwhile, modular streetlight designs simplified upgrades and reduced service downtime, enhancing operational efficiency for municipalities. The LED street light market is expected to integrate advanced AI-driven analytics and edge computing for predictive maintenance

and real-time lighting optimization. Solar-powered LED street lights will see wider adoption in off-grid or low-infrastructure regions. The trend of converting public lighting into multifunctional urban nodes will continue, with sensors for air quality, weather, and traffic becoming standard additions. Circular economy practices such as component reuse and recycling will also be prioritized in procurement policies. The market's growth will be further supported by tightening regulatory standards on lighting efficiency, urban safety, and smart infrastructure mandates.

Key Insights Led Street Light Market

Integration of smart lighting control systems is enabling adaptive illumination based on traffic density and time of day.

Solar-powered LED street lights are gaining popularity in remote and off-grid locations due to cost savings and sustainability benefits.

LED streetlights are evolving into smart poles with embedded EV chargers, surveillance systems, and public Wi-Fi infrastructure.

AI and IoT-based predictive maintenance solutions are being developed to reduce outages and optimize light performance.

Governments are adopting circular procurement strategies that emphasize recyclable components and longer product lifecycles.

Government investments in smart cities and sustainable infrastructure are directly boosting the deployment of LED street lighting systems.

Significant energy savings and lower maintenance costs make LED street lights more economically viable than traditional alternatives.

Rising urbanization is increasing demand for well-lit, safer, and more energy-efficient public lighting infrastructure.

Technological innovations such as wireless control and dimming capabilities are making LED streetlights more versatile and cost-efficient.

High upfront installation costs and limited budgets can delay large-scale adoption in cost-sensitive regions.

Standardization issues in IoT-enabled lighting solutions may hinder interoperability across smart city platforms.

Led Street Light Market Segmentation

By Connectivity

Wired

Wireless

By Sales Channels

Direct

Indirect

By Applications

Retrofit

Retail And Hospitality

Outdoor

Offices

Architectural

Residential

Industrial

Other Applications

Key Companies Analysed

Samsung Electronics Co Ltd.

Revolution Lighting Technologies Inc.

Panasonic Corporation

Eaton Corporation plc

Wipro Limited

Signify N.V.

NIPSCO Inc.

Hubbell Inc.

Leotek Electronics LLC

Acuity Brands Inc.

OSRAM GmbH

Havells India Limited

Zumtobel Group

Syska LED Street Light

Cree Inc.

TATA Power Solar Systems Ltd.

Crompton Greaves Consumer Electricals Limited

Cooper Lighting Solutions

Bajaj Electricals Limited

LSI Industries Inc.

PEMCO Lighting Products LLC

XtraLight LED Lighting Solutions

Daintree Company

Niland Company

Nichia Corporation

Pkk Lighting Inc.

SAVANT TECHNOLOGIES LLC

Ultravision LED Solutions

Jacksen International Ltd.

Optolumens Light Solution

Brandon Industries Inc.

Led Street Light Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Led Street Light Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Led Street Light market data and outlook to 2034

United States

Canada

Mexico

Europe — Led Street Light market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Led Street Light market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Led Street Light market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Led Street Light market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Led Street Light value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Led Street Light industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Led Street Light Market Report

Global Led Street Light market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Led Street Light trade, costs, and supply chains

Led Street Light market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Led Street Light market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Led Street Light market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Led Street Light supply chain analysis

Led Street Light trade analysis, Led Street Light market price analysis, and Led Street Light supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Led Street Light market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL LED STREET LIGHT MARKET SUMMARY, 2025

- 2.1 Led Street Light Industry Overview
 - 2.1.1 Global Led Street Light Market Revenues (In US\$ billion)
- 2.2 Led Street Light Market Scope
- 2.3 Research Methodology

3. LED STREET LIGHT MARKET INSIGHTS, 2024-2034

- 3.1 Led Street Light Market Drivers
- 3.2 Led Street Light Market Restraints
- 3.3 Led Street Light Market Opportunities
- 3.4 Led Street Light Market Challenges
- 3.5 Tariff Impact on Global Led Street Light Supply Chain Patterns

4. LED STREET LIGHT MARKET ANALYTICS

- 4.1 Led Street Light Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Led Street Light Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Led Street Light Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Led Street Light Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Led Street Light Market
 - 4.5.1 Led Street Light Industry Attractiveness Index, 2025
 - 4.5.2 Led Street Light Supplier Intelligence
 - 4.5.3 Led Street Light Buyer Intelligence
 - 4.5.4 Led Street Light Competition Intelligence
 - 4.5.5 Led Street Light Product Alternatives and Substitutes Intelligence
 - 4.5.6 Led Street Light Market Entry Intelligence

5. GLOBAL LED STREET LIGHT MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

5.1 World Led Street Light Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global Led Street Light Sales Outlook and CAGR Growth By Connectivity, 2024- 2034 (\$ billion)

5.2 Global Led Street Light Sales Outlook and CAGR Growth By Sales Channels, 2024- 2034 (\$ billion)

5.3 Global Led Street Light Sales Outlook and CAGR Growth By Applications, 2024- 2034 (\$ billion)

5.4 Global Led Street Light Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC LED STREET LIGHT INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

6.1 Asia Pacific Led Street Light Market Insights, 2025

6.2 Asia Pacific Led Street Light Market Revenue Forecast By Connectivity, 2024- 2034 (USD billion)

6.3 Asia Pacific Led Street Light Market Revenue Forecast By Sales Channels, 2024- 2034 (USD billion)

6.4 Asia Pacific Led Street Light Market Revenue Forecast By Applications, 2024- 2034 (USD billion)

6.5 Asia Pacific Led Street Light Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.5.1 China Led Street Light Market Size, Opportunities, Growth 2024- 2034

6.5.2 India Led Street Light Market Size, Opportunities, Growth 2024- 2034

6.5.3 Japan Led Street Light Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Led Street Light Market Size, Opportunities, Growth 2024- 2034

7. EUROPE LED STREET LIGHT MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Led Street Light Market Key Findings, 2025

7.2 Europe Led Street Light Market Size and Percentage Breakdown By Connectivity, 2024- 2034 (USD billion)

7.3 Europe Led Street Light Market Size and Percentage Breakdown By Sales Channels, 2024- 2034 (USD billion)

7.4 Europe Led Street Light Market Size and Percentage Breakdown By Applications, 2024- 2034 (USD billion)

7.5 Europe Led Street Light Market Size and Percentage Breakdown by Country, 2024-

2034 (USD billion)

7.5.1 Germany Led Street Light Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Led Street Light Market Size, Trends, Growth Outlook to 2034

7.5.2 France Led Street Light Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Led Street Light Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Led Street Light Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA LED STREET LIGHT MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Led Street Light Market Analysis and Outlook By Connectivity, 2024-2034 (\$ billion)

8.3 North America Led Street Light Market Analysis and Outlook By Sales Channels, 2024- 2034 (\$ billion)

8.4 North America Led Street Light Market Analysis and Outlook By Applications, 2024-2034 (\$ billion)

8.5 North America Led Street Light Market Analysis and Outlook by Country, 2024-2034 (\$ billion)

8.5.1 United States Led Street Light Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Led Street Light Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Led Street Light Market Size, Share, Growth Trends and Forecast, 2024-2034

9. SOUTH AND CENTRAL AMERICA LED STREET LIGHT MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Led Street Light Market Data, 2025

9.2 Latin America Led Street Light Market Future By Connectivity, 2024- 2034 (\$ billion)

9.3 Latin America Led Street Light Market Future By Sales Channels, 2024- 2034 (\$ billion)

9.4 Latin America Led Street Light Market Future By Applications, 2024- 2034 (\$ billion)

9.5 Latin America Led Street Light Market Future by Country, 2024- 2034 (\$ billion)

9.5.1 Brazil Led Street Light Market Size, Share and Opportunities to 2034

9.5.2 Argentina Led Street Light Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA LED STREET LIGHT MARKET OUTLOOK AND

GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Led Street Light Market Statistics By Connectivity, 2024- 2034 (USD billion)

10.3 Middle East Africa Led Street Light Market Statistics By Sales Channels, 2024-2034 (USD billion)

10.4 Middle East Africa Led Street Light Market Statistics By Applications, 2024- 2034 (USD billion)

10.5 Middle East Africa Led Street Light Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Led Street Light Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Led Street Light Market Value, Trends, Growth Forecasts to 2034

11. LED STREET LIGHT MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

11.1 Key Companies in Led Street Light Industry

11.2 Led Street Light Business Overview

11.3 Led Street Light Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

12 APPENDIX

12.1 Global Led Street Light Market Volume (Tons)

12.1 Global Led Street Light Trade and Price Analysis

12.2 Led Street Light Parent Market and Other Relevant Analysis

12.3 Publisher Expertise

12.2 Led Street Light Industry Report Sources and Methodology

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