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# Smart Lighting Solutions Market Forecasts to 2034 - Global Analysis By Offering (Hardware, Software and Services), Communication Technology, Installation Type, Control Type, Application, End User and By Geography

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## Abstracts

According to Stratistics MRC, the Global Smart Lighting Solutions Market is accounted for $27.5 billion in 2026 and is expected to reach $116.7 billion by 2034 growing at a CAGR of 19.8% during the forecast period. Smart Lighting Solutions encompass intelligent lighting technologies that combine connectivity, sensors, automation, and digital controls to deliver efficient, convenient, and customizable illumination. Users can remotely control lighting through mobile applications, voice-enabled devices, or automated systems, while adjusting brightness, colors, and schedules based on their preferences. Their application is expanding across homes, businesses, industries, and public facilities as organizations and consumers seek lower energy consumption, greater operational flexibility, and improved user experiences. Technological development, growing smart-building adoption, and rising awareness of energy conservation are further encouraging the deployment of intelligent lighting systems.

According to the International Energy Agency (IEA), lighting in buildings and outdoor applications accounted for around 8% of global electricity demand in 2024, equivalent to approximately 2,200 TWh. This highlights the substantial electricity consumption associated with lighting and supports demand for more efficient and intelligent lighting technologies.

Market Dynamics:

Driver:

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Growing adoption of smart homes and buildings

Increasing deployment of smart homes and intelligent buildings is supporting growth in the Smart Lighting Solutions Market. Property owners and occupants are adopting connected technologies to enhance comfort, energy efficiency, security, and building performance. Smart lighting can integrate with sensors, voice-controlled devices, automation platforms, and building management networks to provide responsive illumination according to occupancy, timing, and individual preferences. Growing development of connected residences, offices, hotels, shopping facilities, and other commercial properties is creating additional opportunities for smart lighting providers. With connected infrastructure becoming more common, intelligent lighting is gaining importance as a fundamental technology within automated and digitally managed building environments.

Restraint:

High initial installation and integration costs

The substantial upfront expenditure associated with smart lighting deployment can limit market expansion. Unlike traditional lighting, intelligent systems may require advanced fixtures, sensors, controllers, connectivity equipment, software platforms, and supporting communication infrastructure. These financial requirements can discourage budget-conscious households, businesses, and institutions from adopting smart lighting, even when long-term energy savings may offset some costs. Furthermore, integrating lighting with building automation systems and connected technologies may require skilled professionals and additional technical resources, increasing implementation complexity and overall ownership costs for potential users.

Opportunity:

Expansion of smart city and infrastructure projects

Growing investment in smart cities and digitally enabled infrastructure is opening new opportunities for smart lighting providers. Municipal authorities are increasingly using connected technologies to enhance urban services, improve efficiency, strengthen public safety, and manage energy consumption. Intelligent street lighting can use sensors, centralized platforms, remote controls, and adaptive illumination to respond to traffic conditions, pedestrian movement, and environmental factors. As cities modernize

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public infrastructure and develop interconnected digital ecosystems, suppliers of intelligent lighting solutions can benefit from increasing demand for scalable, automated, and remotely managed lighting systems.

Threat:

Intense competition from conventional and alternative lighting technologies

Competition from traditional lighting products and other connected technologies may limit opportunities within the Smart Lighting Solutions Market. Conventional lighting remains appealing to many users because it generally involves straightforward installation, familiar operation, and lower initial expenditure. Meanwhile, alternative smart devices and integrated technology platforms can offer certain automation and connectivity features without requiring comprehensive intelligent lighting systems. This competitive environment requires smart lighting manufacturers to continually emphasize benefits such as energy optimization, convenience, interoperability, reliability, and advanced control.

Covid-19 Impact:

The Smart Lighting Solutions Market experienced considerable disruption during the COVID-19 pandemic, particularly during the initial lockdown period. Manufacturing interruptions and shortages of lighting components created supply constraints, while restrictions on construction and commercial operations delayed new installations and retrofit activities. Demand from commercial facilities declined significantly because offices, retail locations, and other buildings were temporarily closed. At the same time, increased attention toward automation, remote management, connected environments, and efficient energy use created opportunities for smart lighting technologies during the post-pandemic recovery.

The hardware segment is expected to be the largest during the forecast period

The hardware segment is expected to account for the largest market share during the forecast period. Hardware forms the core physical layer of smart lighting systems and includes intelligent bulbs, lighting fixtures, sensors, control units, switches, gateways, and supporting equipment. These components provide the essential capabilities required for connectivity, automation, monitoring, and efficient lighting management across homes, businesses, industrial facilities, and public infrastructure. Growing use of connected LED technologies is encouraging demand for hardware capable of remote

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control, automated brightness adjustment, occupancy sensing, and communication with other smart devices. Continuous product development is further enhancing compatibility, performance, reliability, and deployment flexibility.

The public sector & municipal authorities segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the public sector & municipal authorities segment is predicted to witness the highest growth rate as cities increasingly upgrade infrastructure through connected and automated technologies. Intelligent street lighting can help municipalities optimize electricity use, strengthen public security, improve operational management, and maintain reliable lighting services. Features such as centralized supervision, remote operation, adaptive brightness, and automated fault identification make these systems suitable for managing extensive municipal networks. Smart lighting can also integrate with wider smart city infrastructure, enabling connections with traffic systems, environmental monitoring, and other digital services.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share because of its extensive use of connected technologies across homes, businesses, industrial facilities, and municipal infrastructure. Advanced technological capabilities, high smart home penetration, and growing use of building automation systems are supporting the adoption of intelligent lighting. Commercial organizations increasingly deploy connected lighting to manage energy consumption, enhance operational efficiency, and improve user experiences, while cities are incorporating smart lighting into broader urban modernization programs.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by rapid urban development, smart city investments, and growing use of connected technologies. Public authorities are modernizing infrastructure through energy-efficient street lighting and intelligent systems, while expanding commercial, residential, industrial, and transportation projects are creating additional opportunities. The increasing deployment of IoT-enabled lighting, automated controls, and smart building technologies is further supporting regional demand. Growing emphasis on sustainability, energy conservation, and digital infrastructure is encouraging businesses, governments, and households to adopt advanced lighting solutions.

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Key players in the market

Some of the key players in Smart Lighting Solutions Market include Signify Holding, Acuity Brands, Inc., Legrand S.A., Lutron Electronics Co., Inc., ams-OSRAM AG, Zumtobel Group AG, Eaton Corporation PLC, Honeywell International Inc., Panasonic Holdings Corporation, Schneider Electric SE, Hubbell Incorporated, Leviton Manufacturing Company, Inc., General Electric Company, LEDVANCE GmbH, Wipro Lighting, Cree Lighting, Samsung and Xiaomi.

Key Developments:

In February 2026, Panasonic announced a strategic partnership with Skyworth, in which the Chinese TV maker will produce, market and sell Panasonic branded TVs. Panasonic itself will provide expertise and quality assurance for these TVs. The two companies will join forces to develop new high-end OLED TVs. Skyworth is estimated to be the third largest OLED TV producer, but was mostly focused on its domestic market in China.

In November 2025, Schneider Electric announced a two-phase supply capacity agreement (SCA) totaling $1.9 billion in sales. The milestone deal includes prefabricated power modules and the first North American deployment of chillers. The announcement was unveiled at Schneider Electric'sInnovation Summit North America in Las Vegas, convening more than 2,500 business leaders and market innovators to accelerate practical solutions for a more resilient, affordable and intelligent energy future.

In June 2025, Eaton announced it has signed an agreement to acquire Ultra PCS Limited from the Cobham Ultra Group. Ultra PCS’s innovative solutions for safety and mission critical aerospace systems will augment Eaton’s portfolio in both military and civilian aircraft. We expect Ultra PCS’s strong growth position on high-margin business to be accretive to Eaton. Under the terms of the agreement, Eaton will pay $1.55 billion for Ultra PCS.

Offerings Covered:

- Hardware
- Software

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Services

Communication Technologies Covered:

Wired

Wireless

Installation Types Covered:

New Installation

Retrofit Installation

Control Types Covered:

Centralized Control Systems

Individual & Standalone Control

Remote & Cloud-based Control

Applications Covered:

Indoor Lighting

Outdoor Lighting

End Users Covered:

Households & Individual Consumers

Businesses & Corporate Buyers

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- Industrial Operators & Facilities Managers
- Public Sector & Municipal Authorities

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain
  - Netherlands
  - Belgium
  - Sweden
  - Switzerland
  - Poland
  - Rest of Europe

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- Asia Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
  - Indonesia
  - Thailand
  - Malaysia
  - Singapore
  - Vietnam
  - Rest of Asia Pacific
- South America
  - Brazil
  - Argentina
  - Colombia
  - Chile
  - Peru
  - Rest of South America

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- Rest of the World (RoW)
  - Middle East
    - Saudi Arabia
    - United Arab Emirates
    - Qatar
    - Israel
    - Rest of Middle East
  - Africa
    - South Africa
    - Egypt
    - Morocco
    - Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations

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Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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