

Connected & Smart Lighting Market Forecasts to 2034 - Global Analysis By Component (Hardware, Software and Services), Connectivity Technology, Lighting Type, Control & Intelligence, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Connected & Smart Lighting Market is accounted for \$25.2 billion in 2026 and is expected to reach \$73.0 billion by 2034 growing at a CAGR of 14.2% during the forecast period. Connected and smart lighting involves modern illumination solutions embedded with communication technologies that allow intelligent control and automation. These systems rely on sensors, wireless networks, and software platforms to regulate lighting conditions such as intensity and color according to occupancy patterns, natural light, and individual needs. They play a key role in enhancing energy savings, lowering maintenance costs, and improving overall user experience in various settings including homes, offices, and industries. Additionally, smart lighting integrates seamlessly with smart infrastructure, supporting environmental sustainability initiatives. Its adoption is accelerating due to IoT advancements, growing efficiency awareness, and increasing development of smart urban spaces.

Market Dynamics:

Driver:

Rising demand for energy efficiency

Growing awareness and prioritization of energy efficiency strongly drive the connected and smart lighting market. Various stakeholders, including governments and

organizations, are focusing on reducing power consumption and minimizing environmental impact. Smart lighting technologies leverage sensors and automated controls to adjust illumination according to occupancy and available daylight, ensuring minimal energy waste. Compared to conventional systems, these solutions significantly improve efficiency and reduce operating expenses. With increasing electricity prices and heightened environmental concerns, the need for advanced, energy-saving lighting systems continues to rise across multiple end-use sectors globally.

Restraint:

High initial installation costs

The high upfront cost associated with installing connected and smart lighting systems acts as a major barrier to market growth. These solutions require sophisticated hardware, including sensors, control units, and communication technologies, along with supporting software, leading to higher initial expenses than traditional lighting. Retrofitting existing buildings and hiring skilled professionals add to the overall cost burden. This makes adoption challenging for cost-sensitive users such as small businesses and households. Even though long-term savings are achievable, concerns about payback periods and limited budgets hinder decision-making, especially in emerging economies, ultimately restricting the broader adoption of smart lighting solutions.

Opportunity:

Integration with IoT and smart home ecosystems

The ability to integrate with IoT platforms and smart home systems represents a key growth opportunity for the connected and smart lighting market. With the increasing use of connected devices in households, lighting solutions are evolving into essential elements of automated living spaces. These systems can interact with voice-controlled assistants, security technologies, and centralized automation hubs, offering improved convenience and customization. Features such as remote operation, programmed schedules, and adaptive settings enhance user satisfaction. Rising adoption of smart home technologies and continuous IoT advancements are fueling demand, creating new possibilities for innovation and business expansion in the smart lighting industry.

Threat:

Rapid technological obsolescence

Fast-paced technological advancements present a significant risk to the connected and smart lighting market. Continuous improvements in hardware, connectivity standards, and software solutions result in shorter product lifespans and frequent upgrades. Customers may hesitate to invest due to concerns about systems becoming outdated quickly. For companies, the need to regularly enhance products raises research and development expenses while limiting long-term returns. Incompatibility with emerging technologies can also affect system efficiency and reliability. This rapid change introduces uncertainty in purchasing decisions and business planning, which can slow market growth and challenge the stability of smart lighting solutions globally.

Covid-19 Impact:

The impact of COVID-19 on the connected and smart lighting market was both negative and positive. In the early stages, supply chain interruptions, workforce limitations, and halted construction projects restricted market growth and delayed installations. Demand from commercial sectors declined temporarily. On the other hand, the situation boosted interest in smart home technologies as individuals stayed indoors and sought efficient, automated solutions. There was also a stronger emphasis on digitalization and touchless systems across industries. As conditions improved, investments in intelligent infrastructure and energy-saving technologies increased, helping the market recover and creating favorable conditions for sustained future expansion.

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 as it forms the core infrastructure of these systems. It comprises essential elements such as luminaires, sensors, control units, gateways, and communication devices required for system operation. The growing shift toward LED-based lighting and the need to modernize existing installations contribute to strong demand for hardware components. These elements are necessary for both new installations and upgrades of conventional lighting setups. Ongoing technological improvements in devices and connectivity solutions further reinforce the importance of hardware, maintaining its leading position across various end-use environments.

The public infrastructure segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the public infrastructure segment is predicted to witness the highest growth rate, driven by rising investments in smart city development and urban upgrades. Authorities are increasingly implementing advanced lighting solutions across streets, transportation networks, and public areas to improve efficiency, safety, and management. These systems offer features such as remote control, automated adjustments, and integration with broader city technologies like traffic and security systems. Emphasis on sustainability and energy conservation further supports their adoption. Expanding large-scale projects and favorable government initiatives are contributing to the strong growth of smart lighting across public infrastructure worldwide.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, supported by its early embrace of innovative technologies and emphasis on efficient energy use. The region has advanced infrastructure and a high level of awareness regarding intelligent lighting solutions. Strong investments in smart homes, buildings, and urban development projects further boost adoption. Supportive government policies focused on sustainability and energy savings also play a key role. The presence of leading technology companies and ongoing advancements enhances market expansion. Growing demand for automation and interconnected systems across various sectors continues to reinforce North America's leading position in smart lighting globally.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by rapid urban development and increasing deployment of intelligent technologies. Governments in the region are focusing on smart city programs and energy-saving initiatives to address rising population demands. Growth in construction across housing, commercial spaces, and public projects further increases the need for advanced lighting systems. Policy support for sustainability and digitalization also encourages adoption. Expanding economies and growing awareness of modern lighting solutions are key factors supporting market expansion, making Asia Pacific a high-growth region for connected and smart lighting technologies.

Key players in the market

Some of the key players in Connected & Smart Lighting Market include Signify Holding, ams-OSRAM AG, Acuity Brands, Inc., Legrand, Panasonic Holdings Corporation,

Schneider Electric, Zumtobel Group AG, Honeywell International, Samsung Electronics, Xiaomi, Wipro Lighting, Eaton Corporation, Lutron Electronics, Cree Lighting, Cisco Systems, Inc., Hubbell Incorporated, Enlighted Inc. and LIFX (Feit Electric Company).

Key Developments:

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's Innovation 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 October 2025, ams OSRAM and Nichia have expanded their long-standing collaboration in the field of intellectual property (IP). Hiroyoshi Ogawa, President of Nichia Corporation, and Aldo Kamper, CEO of ams-OSRAM AG, signed a comprehensive cross-license agreement covering thousands of patent-protected innovations in LED and laser technologies.

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.

Components Covered:

Hardware

Software

Services

Connectivity Technologies Covered:

Wired

Wireless

Lighting Types Covered:

LED Lighting

Fluorescent Lighting

Other Lighting Types

Control & Intelligence Covered:

Standalone Smart Lighting

Networked Smart Lighting

AI & Predictive Lighting

Applications Covered:

Indoor Lighting

Outdoor Lighting

End Users Covered:

Residential

Commercial

Industrial

Public Infrastructure

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

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

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

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

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