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Smart and Connected Lighting Systems Market Forecasts to 2034– Global Analysis By Component (Hardware, Software and Services), Type, Connectivity, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Smart and Connected Lighting Systems Market is accounted for $21.68 billion in 2026 and is expected to reach $77.18 billion by 2034 growing at a CAGR of 17.2% during the forecast period. Smart and Connected Lighting Systems are advanced lighting solutions that integrate intelligent controls, sensors, and connectivity to optimize illumination, energy efficiency, and user convenience. These systems enable automated adjustment of brightness, color temperature, and scheduling based on occupancy, natural light levels, or user preferences. Often connected through IoT platforms, they allow remote monitoring and management via mobile apps or building management systems. Widely used in residential, commercial, and industrial settings, smart lighting enhances comfort, reduces energy consumption, supports sustainability goals, and contributes to smart building ecosystems by seamlessly combining technology, efficiency, and user-centric design.

Market Dynamics:

Driver:

Rapid Urbanization and Infrastructure Modernization

The growth of urban centers and modernization of infrastructure globally are driving the adoption of Smart and Connected Lighting Systems. Expanding commercial complexes, industrial facilities, and residential developments require energy-efficient, automated

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lighting solutions to meet modern building standards. Smart lighting enhances operational efficiency, reduces energy consumption, and improves occupant comfort. Increasing government initiatives to modernize cities with intelligent infrastructure further fuel demand, positioning smart lighting as a key component in the development of sustainable, technologically advanced urban environments.

Restraint:

High Initial Setup Costs

Despite the benefits, the high initial investment required for Smart and Connected Lighting Systems acts as a market restraint. Costs associated with advanced LED fixtures, IoT-enabled sensors, and integration with building management platforms can be substantial, particularly for small and medium enterprises. Maintenance and training requirements add to the financial burden. Consequently, organizations may hesitate to adopt smart lighting solutions, delaying large-scale implementation; especially in regions where cost sensitivity is high and return on investment timelines are longer.

Opportunity:

Energy Efficiency and Sustainability Push

The global emphasis on energy efficiency and sustainability presents a significant opportunity for Smart and Connected Lighting Systems. Increasing awareness of environmental concerns and stringent government regulations are motivating businesses and households to adopt intelligent lighting solutions. Smart lighting enables automated control, reduced energy consumption, and lower carbon footprints. Integration with renewable energy initiatives further enhances its appeal. This trend is expected to expand adoption across residential and industrial sectors, positioning smart lighting as a cornerstone of sustainable, energy-conscious building management.

Threat:

Complexity of Integration

The complexity involved in integrating Smart and Connected Lighting Systems with existing infrastructure poses a key threat. Compatibility challenges between legacy lighting, building management systems, and IoT platforms can hinder seamless operation. Additionally, configuring software, sensors, and automation schedules

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requires technical expertise, which may not be readily available. Security and data privacy concerns further complicate deployment. These challenges can lead to installation delays, operational inefficiencies, and increased costs, potentially limiting adoption despite the clear benefits of smart, connected lighting solutions.

Covid-19 Impact:

The COVID-19 pandemic temporarily slowed new smart lighting installations due to disrupted supply chains and reduced commercial activity. However, it also accelerated the demand for automated and touchless solutions to minimize physical contact in workplaces, hospitals, and public spaces. Remote monitoring and energy-efficient operations became more critical as businesses optimized costs during lockdowns. Post-pandemic recovery has seen renewed interest, with organizations prioritizing smart building solutions that enhance safety, hygiene, and operational efficiency in line with evolving health and safety standards.

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

The industrial segment is expected to account for the largest market share during the forecast period, due to need for efficient lighting in manufacturing plants and production facilities. Smart lighting enhances operational safety and enables real-time monitoring and control. Automation of brightness and scheduling improves productivity and lowers operational costs. Large-scale industrial adoption is further supported by government incentives for energy efficiency. This segment’s complex requirements for precision and durability make smart lighting a strategic investment, contributing to market dominance during the forecast period.

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

Over the forecast period, the software segment is predicted to witness the highest growth rate, due to adoption of IoT-based lighting management platforms. Software enables intelligent control and predictive maintenance, optimizing overall system performance. Integration with mobile apps and cloud-based platforms enhances user convenience and operational efficiency. As buildings and industries prioritize automation and energy savings, demand for advanced lighting software solutions is accelerating, making it a high-growth area within the smart lighting ecosystem, supporting scalability, customization, and long-term sustainability.

Region with largest share:

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During the forecast period, the North America region is expected to hold the largest market share, as Advanced lighting solutions enable automated controls and occupancy-based adjustments, reducing energy consumption by up to 40–50% while lowering operational costs. Strong government policies, smart city initiatives, and green building standards are accelerating adoption across the U.S. and Canada. Additionally, integration with IoT and building management systems enhances productivity, safety, and data-driven decision-making, positioning lighting as a critical component of intelligent, future-ready infrastructure.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, owing to rapid technological adoption, rising energy costs, and supportive government policies. Expansion of smart city projects, modernization of commercial and industrial facilities, and increased awareness of sustainability are key growth drivers. The region's young, tech-forward population and the growing emphasis on IoT enabled infrastructure contribute to accelerating demand. Investments in smart lighting solutions for efficiency, automation, and enhanced user experience are expected to propel robust growth in this high-potential market.

Key players in the market

Some of the key players in Smart and Connected Lighting Systems Market include Signify (Philips Lighting), Acuity Brands, Inc., OSRAM GmbH, Cree, Inc., Legrand S.A., Honeywell International Inc., Eaton Corporation, Schneider Electric SE, Lutron Electronics Co., Inc., Hubbell Incorporated, Zumtobel Group AG, General Electric Company, Wipro Lighting, Leviton Manufacturing Co., Inc., and RAB Lighting Inc.

Key Developments:

In March 2026, Honeywell has teamed up with Rhombus to launch an AI driven, cloud based video and access control solution that modernizes building security by integrating intelligent video management and access control into a single scalable platform, simplifying deployment and enhancing protection across commercial sites.

In February 2026, Honeywell has signed a partnership with Kortech, part of Hassan Allam Holding, to automate and digitize major infrastructure projects across the Middle East and North Africa, combining Honeywell's automation and digital expertise with

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Kortech’s regional engineering strength to boost resilience, efficiency, and smart project delivery.

Components Covered:

- Hardware
- Software
- Services

Types Covered:

- LED Lighting
- Fluorescent Lighting
- Incandescent Lighting
- Other Types

Connectivities Covered:

- Wired
- Wireless

Applications Covered:

- Residential
- Commercial
- Industrial
- Outdoor & Street Lighting

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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

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- 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

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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:

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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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Street Lighting (2023-2034) ($MN)
Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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