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Smart Lighting Automation Market Forecasts to 2034 – Global Analysis By Component (Smart Lighting Fixtures, Lighting Control Systems, Sensors and Switches, Lighting Management Software and Other Components), Connectivity Technology, Installation Type, Application, End User, and Geography

https://marketpublishers.com/r/S77849368588EN.html
Date: June 2026
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: S77849368588EN

Abstracts

According to Stratistics MRC, the Global Smart Lighting Automation Market is accounted for $18.5 billion in 2026 and is expected to reach $39.8 billion by 2034 growing at a CAGR of 10.1% during the forecast period. Smart lighting automation refers to intelligent lighting systems that automatically control illumination based on occupancy, daylight availability, schedules, or user preferences. These systems integrate sensors, wireless connectivity, IoT platforms, and automation software to optimize energy consumption and improve convenience. Smart lighting solutions are widely used in residential, commercial, industrial, and smart city applications to enhance efficiency, comfort, and sustainability. Features such as remote control, adaptive brightness, and energy monitoring contribute to reduced electricity usage and operational costs. Increasing adoption of smart buildings and energy-efficient technologies is driving market growth globally.

Market Dynamics:

Driver:

Increasing energy efficiency awareness

Consumers and enterprises are increasingly adopting solutions that reduce electricity

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consumption. Automated lighting systems optimize usage by adjusting brightness and schedules. Governments are supporting energy-efficient initiatives through subsidies and regulations. Vendors are introducing advanced solutions tailored for residential, commercial, and industrial applications. Awareness campaigns highlight the environmental and financial benefits of smart lighting. This growing emphasis on efficiency is propelling the market forward.

Restraint:

Compatibility issues with existing systems

A major restraint is the compatibility challenges between smart lighting solutions and existing infrastructure. Many buildings operate with outdated wiring and fixtures that complicate integration. High retrofitting costs discourage smaller enterprises from adoption. Skilled workforce shortages further slow implementation. Vendors must provide flexible solutions to ensure seamless compatibility. Regulatory compliance adds another layer of complexity.

Opportunity:

IoT-enabled adaptive lighting solutions

An important opportunity lies in IoT-enabled adaptive lighting systems. These solutions allow real-time monitoring and control across multiple environments. Enterprises benefit from improved flexibility, reduced costs, and enhanced user experience. Manufacturers are developing IoT-native lighting tailored to diverse industries. Governments are encouraging IoT adoption through smart city initiatives. Partnerships between IoT firms and lighting providers are expanding reach.

Threat:

Rapid technology obsolescence risks

Frequent innovations make existing systems outdated quickly. Enterprises hesitate to invest heavily due to concerns about short product lifecycles. Vendors face challenges in ensuring backward compatibility. Smaller firms struggle to keep pace with evolving standards. Governments are promoting long-term sustainability frameworks, but adoption is uneven. These risks of obsolescence are posing hurdles to consistent market expansion.

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Covid-19 Impact:

Covid-19 had a mixed impact on the smart lighting automation market. On one hand, demand rose as organizations sought energy-efficient solutions to reduce operational costs. Automated systems became essential in workplaces and public facilities with reduced staff. Online platforms supported distribution of smart lighting technologies. On the other hand, economic uncertainty limited investments in advanced systems. Supply chain delays slowed equipment availability. Overall, the pandemic acted as a catalyst, accelerating awareness and long-term adoption.

The smart lighting fixtures segment is expected to be the largest during the forecast period

The smart lighting fixtures segment is expected to account for the largest market share during the forecast period as ensuring efficiency, durability, and adaptability. Adoption is strong among residential and commercial enterprises. Manufacturers are investing in advanced fixtures with IoT capabilities. Governments are supporting modernization through subsidies and pilot projects. Awareness campaigns highlight the importance of fixtures in integrated lighting systems. Retail penetration of smart fixtures is widespread across global markets. This segment is anchoring overall market revenue growth.

The retrofit installation systems segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the retrofit installation systems segment is predicted to witness the highest growth rate due to rising demand for affordable solutions that upgrade existing infrastructure without complete replacement. Enterprises benefit from reduced costs and faster implementation. Governments are funding initiatives to accelerate retrofitting in older buildings. Partnerships between vendors and construction firms are expanding reach. Awareness campaigns emphasize the role of retrofits in sustainable modernization. Startups are rapidly entering the retrofit market with innovative models.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to advanced infrastructure and early adoption of smart lighting technologies. The US and Canada host leading innovators in lighting automation. Policy frameworks encourage modernization across residential and commercial facilities.

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Enterprises are increasingly deploying premium smart lighting systems. Retail penetration of automated solutions is widespread across the region. Academic institutions are actively researching IoT-driven lighting applications.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rapid urbanization and supportive government subsidies for smart city initiatives. Countries such as China, India, and Japan are investing heavily in smart lighting automation. Affordable solutions are gaining traction among mid-sized enterprises. Rural digitization programs are expanding access to advanced lighting systems. E-commerce platforms are helping distribute automation tools to diverse facilities. Younger demographics are increasingly drawn to energy-efficient technologies.

Key players in the market

Some of the key players in Smart Lighting Automation Market include Signify N.V., Schneider Electric SE, Siemens AG, Honeywell International Inc., Legrand S.A., Acuity Brands Inc., Osram GmbH, ABB Ltd., Lutron Electronics Co. Inc., Cree Lighting USA LLC, Eaton Corporation plc, Johnson Controls International plc, Leviton Manufacturing Co. Inc., Savant Systems Inc. and Zumtobel Group AG.

Key Developments:

In March 2026, Siemens AG expanded its industrial software portfolio by rolling out a series of native Simatic micro-fulfillment and port automation libraries engineered to interface directly with modular sorting and terminal cranes. This technical software deployment streamlines the digital link between centralized warehouse management software and localized programmable logic controllers (PLCs), shortening the commissioning timeline for high-speed divert mechanisms and automated container merges.

In January 2026, Schneider Electric SE reported a major expansion of its EcoStruxure Micro Data Center portfolio, introducing ruggedized, pre-integrated on-premises edge enclosures designed specifically for harsh manufacturing and port logistics environments. This product launch houses localized AI compute nodes adjacent to physical assembly operations, minimizing latency for automated microgrid load switching and predictive machine maintenance.

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Components Covered:

- Smart Lighting Fixtures
- Lighting Control Systems
- Sensors and Switches
- Lighting Management Software
- Other Components

Connectivity Technologies Covered:

- Wired Connectivity Technology
- Wireless Connectivity Technology
- Bluetooth Connectivity Technology
- Wi-Fi Connectivity Technology
- Other Connectivity Technologies

Installation Types Covered:

- New Installation Systems
- Retrofit Installation Systems
- Indoor Lighting Automation Systems
- Outdoor Lighting Automation Systems
- Other Installation Types

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Applications Covered:

- Residential Lighting Automation Applications
- Commercial Lighting Automation Applications
- Industrial Lighting Automation Applications
- Public Infrastructure Lighting Applications
- Other Applications

End Users Covered:

- Residential Users
- Commercial Building Operators
- Industrial Facility Operators
- Government and Municipal Authorities
- Other End Users

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom

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- Germany
- France
- Italy
- Spain
- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia

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- 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

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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

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) are also represented in the same manner as above.

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