

# Lighting Control System Market Forecasts to 2032 – Global Analysis By Component (Hardware, Software, and Services), Communication Protocol (Wired Protocols, and Wireless Protocols), Installation Type, End User, and By Geography

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## Abstracts

According to Statistics MRC, the Global Lighting Control System Market is accounted for \$44.3 billion in 2025 and is expected to reach \$108.9 billion by 2032, growing at a CAGR of 13.7% during the forecast period. The lighting control system includes companies that make and combine dimming controls, sensors for occupancy and daylight, networked lighting controllers, smart switches, building-automation interfaces, and software that helps manage indoor and outdoor lighting to save energy, keep people comfortable, and reduce costs by allowing scheduling, setting different lighting scenes, responding to energy needs, and using data for maintenance, all while working with HVAC and BMS systems to reduce energy use, make light bulbs last longer, and enhance the quality of lighting in workspaces

### Market Dynamics:

Driver:

Growing Adoption of IoT and Smart Buildings

The lighting control system market consists of manufacturers and integrators of dimming controls, occupancy and daylight sensors, networked lighting controllers, smart switches, building-automation interfaces, and software platforms that manage interior and exterior lighting for energy efficiency, occupant comfort, and operational savings by enabling scheduling, scene-setting, demand response, and analytics-driven

maintenance while integrating with HVAC and BMS systems to lower energy use, extend lamp life, and improve workspace lighting quality.

Restraint:

#### Complexity in System Design and Interoperability

Integrating diverse components sensors, controllers, and software from various manufacturers often leads to interoperability challenges. This complexity requires specialized knowledge, which drives up installation costs and may turn away customers who are sensitive to price. Additionally, the lack of common standards can lead to being stuck with one vendor, which reduces options for future upgrades and makes clients worried about long-term compatibility and maintenance problems.

Opportunity:

#### Expansion of Smart Homes and Smart Cities

The global push towards developing smart cities and the rising consumer affinity for smart homes present a substantial growth avenue. Municipalities are investing in intelligent street lighting systems to enhance public safety and reduce energy expenditure. Concurrently, growing consumer disposable income and awareness are driving demand for convenient, energy-efficient home automation. This dual expansion across public and private sectors opens new revenue streams for companies offering scalable and reliable lighting control solutions tailored for urban and residential applications.

Threat:

#### Intense Price Competition

The market faces considerable pressure from intense price competition, particularly from low-cost manufacturers, which threatens profitability for established players. As the technology matures, the market sees an influx of generic and white-label products that undercut premium brands on price. This environment can lead to price wars, compressing margins and potentially stifling investment in research and development. Consequently, companies may face challenges in maintaining product quality and innovation while trying to remain cost-competitive in a crowded marketplace.

### Covid-19 Impact:

The pandemic initially disrupted the market for lighting control systems through severe supply chain interruptions and the halting of construction activities, leading to project delays and cancellations. However, the crisis also accelerated the focus on health and energy efficiency in buildings. Post-lockdown, demand surged for touchless and automated lighting solutions to support safer, healthier environments. This change, along with the fast move to digital technology in various fields, has led to a strong recovery, setting the market up for significant growth after the pandemic as these new priorities continue.

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, attributed to the fundamental need for physical components like sensors, switches, and control modules in any lighting system. As the foundational layer of every installation, hardware constitutes the most significant portion of initial investment. Continuous innovation, such as the development of more sophisticated and cost-effective sensors, further propels this segment's revenue. Additionally, the sheer volume of hardware required for large-scale deployments in commercial and industrial sectors ensures its continued market share leadership.

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

Over the forecast period, the wireless protocols segment is predicted to witness the highest growth rate due to its inherent advantages in cost-efficiency and installation flexibility. Wireless systems eliminate the need for extensive conduit and wiring, leading to significantly lower installation costs and time, which is a major draw for retrofitting existing buildings. Moreover, the ease of scalability and integration with other IoT devices aligns perfectly with the trends in smart homes and commercial automation. This strong alignment with market needs ensures its rapid expansion.

### Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by stringent government regulations promoting energy efficiency, high early adoption rates of advanced technologies, and a robust presence of key market players. Furthermore, a well-established commercial real estate sector and

significant investments in smart building projects across the United States and Canada provide a mature and receptive market for sophisticated lighting control solutions, cementing the region's dominant position in terms of revenue.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by rapid urbanization, massive investments in smart city initiatives in countries like China and India, and growing industrialization. Additionally, rising consumer disposable income is spurring the adoption of smart home technologies. Supportive government policies aimed at reducing carbon footprints through energy-efficient infrastructure are creating a highly favorable environment, making APAC the fastest-growing market for lighting control systems globally.

Key players in the market

Some of the key players in Lighting Control System Market include Signify N.V., Acuity Brands, Inc., Legrand S.A., Lutron Electronics Co., Inc., Schneider Electric SE, Eaton Corporation plc, Hubbell Incorporated, ABB Ltd., Honeywell International Inc., Siemens AG, Crestron Electronics, Inc., Leviton Manufacturing Co., Inc., Zumtobel Group AG, OSRAM GmbH, Delta Electronics, Inc., Panasonic Holdings Corporation, Digital Lumens, Inc., Casambi Technologies Oy, Helvar Ltd., and Cree, Inc.

### **Key Developments:**

In August 2025, Legrand launched a new lighting control platform called Wattstopper PLUS, designed for complex building projects with support for wired and wireless DALI-2 configurations, off-site commissioning features, and compliance with energy reporting standards.

In June 2025, Schneider Electric introduced the SpaceLogic KNX DALI Gateway Broadcast, a smart lighting control device with simplified setup, support for up to 32 devices per channel, DALI-2 certified, KNX Secure certification, and advanced features like color temperature control and energy metering.

In October 2024, ABB Ltd. partnered with Zumtobel Group to integrate ABB's building automation solutions with Zumtobel's lighting management systems, targeting advanced smart building environments with sensor-based lighting and DC technology for energy efficiency

In February 2024, Signify introduced a smart automated LED system for sports grass growth at PSV's Philips Stadium, featuring dimming of LED and infrared lamps for optimal plant health.

#### Components Covered:

Hardware

Software

Services

#### Communication Protocols Covered:

Wired Protocols

Wireless Protocols

#### Installation Types Covered:

New Installations

Retrofit Installations

#### End Users Covered:

Commercial

Residential

Industrial

Government & Public Sector

Healthcare

Hospitality

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & 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 2024, 2025, 2026, 2028, and 2032
- 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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