

**Outdoor Lighting Controller Market Research Report by Offering [Hardware (Dimmers, LED Drivers and Ballasts, Relay Units, Gateways, Power Modules, Switches), Software, Services (Professional Services, Installation and Maintenance Services)], by Communication Protocols [Wired (DALI, PLC, POE, DMX), Wireless (Zigbee, Bluetooth, WiFi, 6LoWPAN, IoT-based, Cellular, Mesh Networks, EnOcean, Li-Fi, Thread), Hybrid Protocols], by Installation Type (Retrofit, New Installation), by End Use (Highways and Roadways, Architectural Lighting, Public Spaces, Street Lighting, Smart Emergency Lighting, Others), and by Region (North America, Europe, Asia-pacific, South America, MEA) Forecast Analysis till 2035**

Market Report | 2025-12-21 | 428 pages | Market Research Future

**AVAILABLE LICENSES:**

- Single User Price \$4950.00
- Enterprisewide Price \$7250.00

**Report description:**

The Outdoor Lighting Controller Market is on a high-growth trajectory, with revenues expected to surpass USD 11,162.21 million by 2035 at a 15.7% CAGR. In order to meet energy-efficiency requirements and smart city programs, cities are adopting outdoor lighting controllers that can optimize power consumption through the use of sensors and connectivity.

**Rising Municipal Power Costs**

Street lighting is a large portion of what a city spends on utilities, especially in less developed areas. Through the use of outdoor lighting controllers, this problem can be solved by regulating the usage and thus consuming less electricity.

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## Market Classification Overview

### Offering

- Hardware (Gateways, Power Modules, Relays, Drivers): Essential lighting control equipment
- Software: Automation and control applications
- Services (Professional, Installation, Maintenance): End-to-end system services

### Communication Protocols

- Wired Protocols (DALI, PLC, POE, DMX): Consistent low-latency communication
- Wireless Protocols (WiFi, IoT, Mesh, EnOcean, Thread): Smart-city connectivity solutions
- Hybrid Protocols: Enhanced network flexibility

### Installation Type

- Retrofit: Cost-effective lighting upgrades
- New Installation: Integrated smart lighting systems

### End-Use

- Highways and Roadways: Continuous roadway illumination
- Architectural Lighting: Structural and landscape lighting
- Public Spaces: Outdoor public infrastructure lighting
- Street Lighting: Municipal illumination control
- Smart Emergency Lighting: Safety-focused lighting systems
- Others: Application-specific lighting needs

## Regional Insights

Market frontlines are held in North America and Western Europe. Asia-Pacific and MEA are lovely markets with huge growth potential.

## Policy and Sustainability Push

Energy regulations and green infrastructure goals are fuelling the adoption of the solutions everywhere. Smart lighting contributes to lowering emissions and running costs.

## Key Report Attributes

- Market Size 2024: USD 2,341.25 Million
- Market Size 2035: USD 11,162.21 Million
- CAGR (2025-2035): 15.7%
- Base Year: 2025
- Market Forecast Period: 2025-2035

## Industry Segmentations Growth

- By Offering: Hardware - 15.7%, Software - 16.1%.
- By Communication Protocols: Wired - 10.1%, Wireless - 19.5%.
- By Installation Type: Retrofit - 16.6%, New Installation - 15.1%.
- By End Use: Highways and Roadways - 15.0%, Architectural Lighting - 14.2%.

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Please contact us for the full table of contents, as well as for any sample pages and content specific questions.

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