

Intelligent Lighting Controls Market Report by Type (Sensors, Ballasts and LED Drivers, Microcontrollers, Dimmers and Switch Actuators, Transmitters and Receivers, and Others), Connectivity Type (Wired, Wireless), Application (Commercial Buildings, Residential Buildings, Public Utilities), and Region 2024-2032

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Abstracts

The global intelligent lighting controls market size reached US\$ 12.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 44.1 Billion by 2032, exhibiting a growth rate (CAGR) of 14.5% during 2024-2032.

Intelligent lighting controls comprise multiple lighting fixtures, movable illumination sensors, and power meters connected to a network for providing automatic control of lighting as per the requirement of the user. They help reduce electricity wastage by turning off the lights when an area is unoccupied. They offer increased visual comfort by considering the natural light and reducing the need for artificial illumination. Consequently, intelligent lighting controls are employed in the residential, commercial, and industrial sectors across the globe.

Intelligent Lighting Controls Market Trends:

The increasing adoption of cost-effective and energy-efficient lighting solutions represents one of the key factors positively influencing the market. Moreover, conventional lighting controls have several drawbacks, such as manual on/off switching, poor control performance, and a considerable time delay when used separately. However, intelligent lighting controls integrate light-emitting diodes (LEDs) and information and communications technologies (ICTs), such as wireless networks and

sensors, to create efficient and healthy illumination. Besides this, lights can be programmed to simulate occupancy in a building, which can help deter intruders. Sensors can also produce a visual alarm by illuminating areas with movement. Apart from this, there is an increase in the use of LED streetlights as they help reduce operations and maintenance (O&M) costs through immediate identification of streetlight failures. They also offer significant environmental benefits due to lower energy usage and reduced carbon emissions from truck rolls. This, coupled with the gradual substitution of traditional lamps with LED lamps, is offering lucrative growth opportunities to market players. Other factors, including rising technological advancements and the increasing number of smart city projects around the world, are projected to strengthen the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global intelligent lighting controls market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, connectivity type and application.

Breakup by Type:

- Sensors
- Ballasts and LED Drivers
- Microcontrollers
- Dimmers and Switch Actuators
- Transmitters and Receivers
- Others

Breakup by Connectivity Type:

- Wired
- Wireless

Breakup by Application:

- Commercial Buildings
- Residential Buildings
- Public Utilities

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Acuity Brands Inc., ams-OSRAM AG, Control4 Corporation (Snap One LLC), Enlighted Inc., General Electric Company, Honeywell International Inc., Hubbell Incorporated, Leviton Manufacturing Co. Inc., Lutron Electronics Co. Inc., Panasonic Corporation, Schneider Electric SE and Signify Holding B.V.

Key Questions Answered in This Report

1. What was the size of the global intelligent lighting controls market in 2023?
2. What is the expected growth rate of the global intelligent lighting controls market during 2024-2032?

3. What has been the impact of COVID-19 on the global intelligent lighting controls market?
4. What are the key factors driving the global intelligent lighting controls market?
5. What is the breakup of the global intelligent lighting controls market based on the type?
6. What is the breakup of the global intelligent lighting controls market based on the connectivity type?
7. What is the breakup of the global intelligent lighting controls market based on the application?
8. What are the key regions in the global intelligent lighting controls market?
9. Who are the key players/companies in the global intelligent lighting controls market?

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