

## **Smart Lighting Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)**

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### **Report description:**

The global smart lighting market size reached a value of USD 16.25 Billion in 2024 and is projected to grow significantly in the coming years. The market is further expected to grow at a CAGR of 20.00%, reaching a value of approximately USD 100.62 Billion by 2034. This growth is driven by the increasing adoption of smart lights, which offer energy-efficient solutions and advanced control features. IoT devices play a crucial role in enhancing the functionality of smart lighting, enabling users to manage ambient lighting, adjust brightness, and create dimmable settings through various platforms. Smart lighting systems are increasingly incorporating voice-controlled features, with integration with popular smart assistant platforms. The use of WiFi, Bluetooth, SmartThings, ZWave, and ZigBee technologies allows for seamless connectivity and user-friendly operation. With smart lights becoming more versatile and efficient, the smart lighting market presents various avenues for market growth and technological innovation in the coming years.

The smart lighting market is rapidly expanding, driven by the increasing demand for connected lighting solutions. Smart lighting technologies, including smart street lights, offer energy efficiency and enhanced control. These systems leverage IoT devices to enable remote management and automation. Sensors integrated into smart lighting systems play a key role in optimising energy usage by adjusting lighting levels based on ambient conditions. The integration of these advanced technologies enhances the functionality and efficiency of smart lighting, allowing for more sustainable and convenient solutions in both residential and commercial settings. With growing urbanisation and a focus on sustainability, the adoption of smart lighting and connected lighting systems is set to continue its upward trajectory in the coming years.

### Smart Lighting Market Trends

The smart lighting market is witnessing significant growth, driven by the increasing demand for energy conservation and environmental protection. Traditional incandescent lamps are being replaced by LED smart lighting, which offers more energy-efficient and sustainable alternatives. LED lights, particularly LED smart lights, are transforming the lighting industry by

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reducing energy consumption and minimising greenhouse gas emissions. As LED technology continues to advance, it plays a crucial role in lowering carbon footprints, further promoting energy efficiency. The smart lighting segment of the market, which includes smart-controlled LED lights, is expected to grow as more consumers and businesses adopt these solutions. The shift to LED smart lighting not only helps reduce greenhouse gas emissions but also provides long-term cost savings. With growing concerns about environmental impact and the need to mitigate greenhouse gas emissions, the adoption of LED smart lighting is poised to shape the future of the lighting industry.

The smart lighting market is rapidly expanding, driven by the increasing penetration of smart lights across residential, commercial, and urban applications. The adoption of smart lighting has been accelerating due to the growing demand for energy-efficient solutions and enhanced control. One of the key drivers of this growth is the shift from traditional incandescent lamps to more efficient LED-based smart lights, which offer greater longevity and lower energy consumption. Smart lighting companies are capitalising on this demand, offering innovative solutions that integrate with other smart home technologies. The rise of LED-based smart lights has further been supported by the adoption of IoT devices, enabling users to control their lighting remotely. The COVID-19 pandemic played a significant role in boosting the adoption of smart lighting, as more people looked for ways to improve home energy efficiency. Additionally, the demand for LED lights has increased due to their ability to support the transition to smart lighting and reduce overall energy consumption. As a result, the market is poised for continued growth.

The smart lighting market is expanding with the increasing adoption of smart lights in various applications. These lighting systems integrate networked components, such as sensors and Internet of Things (IoT) technology, to offer enhanced functionality. Ambient sensing capabilities enable the lighting fixtures to adjust based on environmental conditions, while voice control adds further convenience. Smart lighting systems are also becoming integral to smart lighting applications, providing seamless integration with other smart home devices. As demand for more energy-efficient and automated lighting systems grows, the market for smart lighting continues to thrive.

The smart lighting market is experiencing significant growth with the adoption of smart lighting systems across various sectors. These systems utilise both wired and wireless communication protocols, including Bluetooth, WiFi, ZigBee, DALI, EnOcean, and Sigfox, to enable seamless networking and control. The integration of lighting control modules and advanced luminaires enhances the performance of smart fixtures and smart lamps. Additionally, the rise of smart home lighting systems is contributing to the demand for more intuitive and energy-efficient solutions. As consumers seek greater control over their lighting, smart lighting systems continue to evolve, offering improved automation and connectivity for both residential and commercial environments.

The smart lighting market is driven by the widespread adoption of LED technology, with LED chips playing a crucial role in enhancing energy efficiency. LED chips are integral to the performance of LED lamps, which are gaining popularity in the household lamp segment due to their cost-effectiveness and longer lifespan. As consumers prioritise energy efficiency, LED solutions offer a more sustainable alternative to traditional lighting options. With the growing demand for smart lighting systems, LED technology continues to dominate the market, providing both economic and environmental benefits.

The global smart lighting market is seeing substantial growth as consumers and businesses increasingly adopt energy-saving lighting products. These smart lighting solutions are contributing to energy conservation by reducing dependence on non-renewable power sources. By replacing traditional lighting with more efficient technologies, such as LED-based smart lights, greenhouse gas emissions and carbon emissions are significantly lowered. This shift supports sustainable energy-saving practices, helping reduce the environmental impact of excessive energy consumption. Smart lighting systems also promote further energy conservation by providing enhanced control over lighting usage, ensuring optimal efficiency in both residential and commercial settings. As energy-saving becomes a priority, smart lighting offers an effective way to achieve sustainability goals, making it a key component in the broader push toward reducing carbon footprints and fostering a greener future.

The smart lighting market is experiencing remarkable growth, driven by the increasing adoption of smart lights across both

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residential and commercial sectors. Smart lighting systems offer energy-saving benefits through advanced control systems and the use of LED bulbs, which are significantly more efficient than traditional incandescent bulbs. LED lights, including LED bulbs, LED-based smart lights, and other LED forms, help reduce energy consumption and costs while providing better illumination. These systems are often integrated with sensors, which enable automatic adjustments based on environmental factors such as ambient light levels or motion detection. The integration of these sensors makes smart lighting even more efficient, allowing for optimal energy-saving lighting. However, while the benefits of smart lights are evident, compatibility concerns with older lighting systems, such as incandescent bulbs, can arise when transitioning to more modern solutions. Additionally, the use of a heat sink in LED lights enhances their longevity and prevents overheating, contributing to their longer lifespan. Despite these concerns, the continued development and refinement of smart lighting technologies are expected to drive their wider adoption, offering users a smarter, more energy-efficient way to manage lighting. As consumers increasingly prioritise sustainability and energy efficiency, the demand for smart lights and LED-based lighting solutions will continue to rise, reshaping the future of lighting across the globe.

### Component Insights

In Australia's smart lighting market, hardware innovations such as LED bulbs, sensors, and control systems offer significant benefits. LED technology is highly energy-efficient, reducing energy consumption and lowering electricity costs, which is especially valuable in Australia's energy-conscious market. Smart lighting hardware, integrated with sensors, allows for automated adjustments based on environmental conditions like motion or light levels, enhancing both convenience and energy efficiency. The long lifespan of LED bulbs further reduces maintenance costs, making smart lighting a cost-effective choice. Additionally, hardware solutions enable better integration with other smart devices, offering greater control and customisation, which enhances user experience and sustainability.

Software in Australia's smart lighting market plays a pivotal role in providing advanced control and automation. With intuitive apps and interfaces, users can remotely manage and monitor their lighting systems, adjusting brightness, scheduling, and setting moods from their smartphones or smart assistants. The software allows seamless integration with other smart home systems, such as IoT devices, enabling unified control. Additionally, software optimises energy usage through data analytics, further contributing to energy conservation. The ability to update and upgrade software over time ensures that smart lighting systems remain innovative, offering long-term sustainability. In a market focused on environmental impact, software solutions enhance both functionality and energy-saving efforts.

### Connectivity Insights

Wired connectivity in Australia's smart lighting market offers stable and reliable connections, ensuring consistent performance without interference. It provides high-speed communication, which is ideal for large-scale installations, such as in commercial or industrial settings. Wired systems are typically more secure, as they are less susceptible to hacking compared to wireless networks. Additionally, they offer lower latency, allowing for instant response times when controlling lighting systems. For areas where wireless connectivity may be unreliable, wired solutions ensure robust and uninterrupted smart lighting operation.

Wireless connectivity in Australia's smart lighting market offers significant flexibility and ease of installation. Without the need for extensive wiring, wireless systems are quicker and less disruptive to set up, making them ideal for both residential and commercial applications. Wireless connectivity also allows for easy scalability, enabling users to add or remove devices as needed. The integration with other IoT-enabled devices, such as voice assistants or smart thermostats, is seamless. Moreover, wireless systems can be controlled remotely, providing enhanced convenience and better energy management.

### Application Insights

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In Australia's smart lighting market, indoor lighting solutions offer enhanced comfort, convenience, and energy efficiency. Smart indoor lights allow users to customise lighting for various activities, from bright, focused light for reading to dim, ambient lighting for relaxation. Integrated with motion sensors, these systems can automatically adjust lighting based on occupancy, ensuring energy is not wasted in empty rooms. Additionally, voice control and mobile apps enable seamless management, offering easy adjustments without the need for manual switches. Energy-efficient LED technology reduces electricity consumption and lowers bills. The integration of smart indoor lighting with other home automation systems further increases convenience, providing a personalised, smarter home experience that aligns with sustainability goals.

Smart outdoor lighting in Australia enhances safety, security, and aesthetics. With features like motion detection, smart outdoor lights can automatically illuminate pathways, driveways, or garden areas when movement is detected, reducing the risk of accidents or intrusions. These systems can be controlled remotely, allowing users to adjust lighting brightness or create schedules for when lights should be turned on or off. Smart outdoor lights, using energy-efficient LED technology, also contribute to energy savings and reduce environmental impact. Furthermore, outdoor lighting solutions can be integrated with home automation systems, allowing for enhanced control and customisation. In the Australian market, smart outdoor lighting promotes both practicality and sustainability.

### Installation Type Insights

New installation of smart lighting systems in Australia offers a range of benefits, including seamless integration with modern infrastructure. These systems are designed with the latest energy-efficient technologies, such as LED lights, which reduce electricity consumption and operational costs. New installations allow for customised solutions tailored to specific needs, whether residential or commercial. With advanced features like motion sensors, remote control, and automation, new smart lighting systems enhance convenience, safety, and sustainability. Additionally, they ensure compatibility with other smart home devices, offering a fully integrated experience.

Retrofit installation of smart lighting in Australia allows existing lighting systems to be upgraded without major renovations. This offers a cost-effective way to enhance energy efficiency and reduce maintenance costs. By replacing traditional bulbs with LED smart lights, retrofit installations significantly lower energy consumption and carbon emissions. These solutions also improve control through smart features like motion sensing, scheduling, and remote management. Retrofit installation allows both residential and commercial properties to benefit from the advantages of smart lighting without the need for complete rewiring or system overhauls, providing a practical, sustainable upgrade.

### Light Source Insights

LED lamps are gaining significant traction in Australia's smart lighting market due to their energy efficiency and long lifespan. These lamps consume less power than traditional lighting options, such as fluorescent lamps, reducing electricity bills. LED technology also offers instant lighting without flicker, ensuring consistent illumination. With the ability to integrate with smart systems, LED lamps can be controlled remotely and automated for optimal energy use, contributing to sustainability and reducing carbon emissions in both residential and commercial spaces.

Fluorescent lamps remain a popular option in Australia's smart lighting market due to their cost-effectiveness and efficiency. These lamps are more energy-efficient than incandescent bulbs, reducing electricity consumption. Fluorescent lamps also provide a brighter light output, making them suitable for larger spaces such as offices and warehouses. Though not as efficient as LED lamps, they still offer a longer lifespan and lower environmental impact compared to traditional incandescent lighting, making them a viable option for specific applications in both residential and commercial settings.

### Regional Insights

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Europe is witnessing significant growth in the global smart lighting market, driven by increasing demand for energy-efficient and sustainable lighting solutions. The region has implemented stringent regulations on energy conservation and carbon emissions, prompting both residential and commercial sectors to adopt smart lighting systems. The widespread use of LED technology and smart controls in cities, homes, and offices supports these goals. European countries, particularly the UK, Germany, and France, are leading the way in integrating smart lighting with IoT devices and renewable energy sources. As consumers seek greater control over energy consumption and governments promote sustainability, Europe is expected to remain a key player in the smart lighting market, contributing to further technological advancements and the adoption of innovative solutions.

The Asia Pacific region is experiencing rapid expansion in the smart lighting market, driven by technological advancements and growing urbanisation. Countries such as China, India, and Japan are leading the market due to increasing investments in infrastructure, smart cities, and energy-efficient solutions. The region's growing population and rising urban development are creating significant demand for advanced lighting systems, particularly in residential, commercial, and outdoor spaces. The adoption of LED-based smart lighting, integrated with sensors and control systems, is growing rapidly. Moreover, government initiatives supporting energy conservation, and the adoption of sustainable technologies are further boosting market growth. As the region continues to embrace digital transformation, smart lighting is becoming a critical component of the modern, energy-efficient urban landscape, improving both convenience and sustainability.

In North America, the smart lighting market is growing steadily, supported by a strong focus on energy efficiency and sustainability. The United States and Canada are major contributors to this growth, driven by consumer demand for smarter homes and the adoption of smart city initiatives. LED lighting solutions, combined with advanced control systems, are increasingly being integrated into residential, commercial, and industrial spaces.

Latin America is gradually embracing smart lighting solutions, with countries such as Brazil, Mexico, and Argentina showing increasing interest in energy-efficient lighting technologies. The market is driven by the need for cost-effective and sustainable alternatives to traditional lighting, alongside growing urbanisation. Smart lighting is seen as a viable solution to combat energy inefficiencies and reduce carbon footprints. Government policies promoting energy conservation and sustainability are encouraging the adoption of smart lighting in both urban and rural areas. As awareness grows, Latin America is expected to witness further market expansion, with a rising demand for LED-based smart lights and automation systems.

#### Key Companies & Market Share Insights

The global smart lighting market is highly competitive, with several key companies leading the way in innovation and market share. Prominent players include Philips Lighting (Signify), Osram Licht, General Electric, Cree, and Acuity Brands, all of which offer advanced smart lighting solutions, such as LED-based systems and integrated control platforms. These companies are expanding their market share through strategic partnerships, acquisitions, and the development of energy-efficient products. With increasing demand for energy-saving and connected lighting solutions, these companies continue to drive the growth and evolution of the smart lighting market.

#### Key Smart Lighting Companies

? Signify S.A.

? Acuity Brands Lighting, Inc.

? Honeywell

? Legrand S.A.

? OSRAM GmbH

? Cree Lighting

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- ? General Electric Company
- ? Itron Inc.
- ? IDEAL INDUSTRIES, INC.
- ? Hafele America Co.
- ? Wipro Lighting
- ? YEELIGHT
- ? Sengled Optoelectronics Co., Ltd.
- ? Verizon
- ? Schneider Electric
- ? Others

## Recent Developments

? In January 2025 , Xiaomi revealed its new Smart LED Bulb (White and Color) for global markets, featuring Matter compatibility and a variety of remote-control options. The E27 bulb offers over 16 million colours, adjustable colour temperature, and ten preset lighting modes. It supports Xiaomi Home app control, Wi-Fi, and is energy-efficient at 8.5W.

? In October 2024 , the Hong Kong Autumn Lighting Fair and Outdoor Tech Light Expo showcased global innovations in smart lighting, emphasising sustainability and energy efficiency. With over 3,000 exhibitors, the event highlighted smart lighting solutions for cities, featuring companies like JDI, Signify, and Bast Lighting. Key exhibits included energy-saving technologies, smart poles, and solar-powered streetlights, reflecting the industry's focus on smart, eco-friendly solutions.

? In October 2024 , Lumary launched the world's first smart string wall lamp with up-down lighting, combining traditional wall sconces with smart technology. The lamp features customizable lighting, RGBAI scene modes, and flexible control options, including app and voice commands. It offers easy installation, multiple control methods, and dynamic music-sync lighting, leading a new trend in indoor lighting.

? In March 2024 , Govee launched its Net Lights, available globally in two sizes. These smart outdoor lights are Matter-compatible for integration with smart homes. Features include RGBIC LEDs, seasonal scene modes, and DIY options for displaying images or GIFs. The lights can be controlled via the Govee app, Amazon Alexa, or Google Assistant.

? In September 2023 , JBL launched the PartyLight Beam and PartyLight Stick smart lights in North America and Europe. These lights sync with music using built-in microphones and JBL's music detection algorithm. The PartyLight Beam is an uplighter, while the PartyLight Stick is a battery-powered floor lamp, both offering immersive lighting effects.

? In October 2022 , Signify opened five new Philips Smart Light Hubs in Gujarat, including four in Ahmedabad and one in Vadodara. This expanded its retail presence to 47 exclusive lighting stores in western India. The stores offer a variety of decorative and smart home lighting solutions, catering to the growing demand in the region.

? In January 2022 , the world's largest LoRaWAN? smart street lighting project was launched in Montevideo, Uruguay, featuring 70,000 LED streetlights. The initiative aims to improve public safety, reduce carbon emissions by 80%, and enhance energy efficiency. NNNCo and Wellness TechGroup deployed IoT network coverage, offering a scalable solution for smart city applications.

## Global Smart Lighting Market Report Segmentation

The global smart lighting market has experienced significant growth, driven by advancements in technology and increasing consumer demand for energy-efficient lighting solutions. This market encompasses various products, including smart bulbs, sensors, and control systems, that offer enhanced functionality, automation, and energy savings. With the rise of smart homes and IoT integration, the market is expected to expand further.

## Component Outlook (Revenue, Billion, 2025-2034)

- ? Hardware

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??? Lights and Luminaires  
??? Lighting Controls

? Software  
? Services

??? Design and Engineering  
??? Installation  
??? Post-Installation

Connectivity Outlook (Revenue, Billion, 2025-2034)

? Wired  
? Wireless

Installation Type Outlook (Revenue, Billion, 2025-2034)

? New Installation  
? Retrofit Installation

Light Source Outlook (Revenue, Billion, 2025-2034)

? LED Lamps  
? Fluorescent Lamps  
? Compact Fluorescent Lamps  
? High Intensity Discharge Lamps  
? Others

Application Outlook (Revenue, Billion, 2025-2034)

? Indoor  
??? Residential  
??? Commercial

? Outdoor

??? Highways and Roadways  
??? Architectural  
??? Others

Region Outlook (Revenue, Billion, 2025-2034)

? North America  
??? United States of America  
??? Canada

? Europe

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- ??? United Kingdom
- ??? Germany
- ??? France
- ??? Italy
- ??? Others

- ? Asia Pacific
  - ??? China
  - ??? Japan
  - ??? India
  - ??? ASEAN
  - ??? Australia
  - ??? Others

- ? Latin America
  - ??? Brazil
  - ??? Argentina
  - ??? Mexico
  - ??? Others

- ? Middle East and Africa

- ??? Saudi Arabia
- ??? United Arab Emirates
- ??? Nigeria
- ??? South Africa
- ??? Others

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