

# **Grow Light Market Report by Technology (HID, LED, Fluorescent, and Others), Installation Type (New Installations, Retrofit Installations), Spectrum (Full-Spectrum, Partial Spectrum), Application (Indoor Farming, Vertical Farming, Commercial Greenhouse, Turf and Landscaping, and Others), and Region 2024-2032**

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## **Abstracts**

The global grow light market size reached US\$ 4.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 9.1 Billion by 2032, exhibiting a growth rate (CAGR) of 8.2% during 2024-2032. The growing trend of indoor farming and urban gardening, the development of energy-efficient LED technology, the rising emphasis on sustainable practices in agriculture, and the integration of smart and automated technologies into grow light systems are some of the major factors propelling the market.

A grow light is an artificial light source designed to provide the necessary spectrum of light for photosynthesis, enabling indoor cultivation of plants. It replicates the natural sunlight required by plants for various growth stages, including germination, vegetative growth, and flowering. Grow lights are commonly used in indoor gardening, hydroponics, and vertical farming systems to supplement or replace natural sunlight, allowing plants to thrive in environments with limited access to sunlight. Different types of grow lights, such as fluorescent, LED, and high-intensity discharge (HID) lights, offer specific light spectrums to support optimal plant growth and development.

The rise in indoor and urban farming practices necessitates reliable artificial lighting solutions to support plant growth which represents one of the key factors driving the

growth of the market across the globe. Urbanization and limited outdoor space drive the demand for efficient and space-saving cultivation methods. Significant advancements in lighting technologies, particularly energy-efficient LEDs, are revolutionizing the market. LEDs offer customizable light spectrums and reduced energy consumption, which makes them ideal for various plant species and growth stages. Moreover, changing weather patterns and the unpredictability of natural sunlight encourage growers to opt for controlled indoor environments, where grow lights ensure consistent and optimized conditions year-round. Furthermore, the cannabis cultivation industry's expansion, both for medicinal and recreational purposes, heavily relies on tailored lighting solutions to maximize yield and potency. The increasing awareness of sustainable agriculture practices emphasizes energy-efficient and eco-friendly solutions, which modern grow lights address through reduced energy consumption and minimized light wastage, thus facilitating the growth of the market across the region.

#### Grow Light Market Trends/Drivers:

##### Rising indoor farming

The increasing popularity of indoor farming, driven by urbanization and limited outdoor space, is a significant driver of the grow light market. Grow lights enable plants to thrive in controlled environments, overcoming the challenges of weather variability and extending growing seasons. This trend caters to the demand for locally grown produce and supports year-round cultivation, which enhances food security and sustainability.

##### Significant advancements in lighting technology

The evolution of lighting technology, particularly the development of energy-efficient LED grow lights, is transforming the industry. LEDs offer precise control over light spectra and intensity, optimizing plant growth and minimizing energy consumption. Their longer lifespan and reduced heat emissions also contribute to their appeal, thus making them a preferred choice for both commercial and hobbyist growers.

##### Rising cannabis cultivation

The expanding cannabis industry, driven by legalization for medical and recreational use in various regions, heavily relies on specialized lighting solutions. Grow lights are crucial for cultivating high-quality cannabis with specific cannabinoid profiles and potent yields. Tailored lighting regimes influence plant development, affecting characteristics like flowering, potency, and resin production. As the cannabis market grows, the demand for efficient and effective grow lights continues to rise.

### Grow Light Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global grow light market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on technology, installation type, spectrum and application.

### Breakup by Technology:

HID

LED

Fluorescent

Others

The report has provided a detailed breakup and analysis of the market based on the technology. This includes HID, LED, fluorescent, and others. According to the report, LED represented the largest segment.

The widespread adoption of light emitting diode (LED) technology in the grow light market is driven by several compelling factors. Primarily, LEDs offer precise control over light spectra, allowing growers to tailor lighting conditions to specific plant growth stages, enhancing photosynthesis, flowering, and yield. LEDs are energy-efficient as they consume less power as compared to traditional lighting technologies, leading to reduced operational costs and environmental impact. Moreover, LEDs produce minimal heat, allowing lights to be placed closer to plants without the risk of heat damage. This enhances light penetration and efficiency. The longer lifespan of LEDs reduces replacement and maintenance costs. Additionally, LEDs emit less heat, reducing the need for extensive ventilation and cooling systems. This makes them well-suited for vertical farming and compact indoor spaces. Furthermore, advancements in LED technology have lowered costs, thus making them more accessible to a broader range of growers. Their compact size and design flexibility enable innovative lighting setups.

### Breakup by Installation Type:

New Installations

Retrofit Installations

A detailed breakup and analysis of the market based on the market type has also been

provided in the report. This includes new installation and retrofit installation. According to the report, new installations accounted for the largest market share.

The adoption of new installations in the grow light market is driven by several influential factors. Primarily, technological advancements are leading to the development of more efficient and effective lighting solutions, encouraging growers to upgrade their existing systems for improved performance and yield. The growing demand for sustainable and environmentally friendly agricultural practices is prompting the integration of energy-efficient lighting technologies. New installations often utilize LED systems, which consume less energy, produce minimal heat, and consist of longer lifespans as compared to traditional lighting. Moreover, the expansion of indoor and vertical farming operations requires the establishment of new lighting setups to support increased cultivation in limited spaces. These installations ensure optimal light distribution and coverage for different plant growth stages. Additionally, the increasing popularity of legalized cannabis cultivation necessitates advanced lighting installations to achieve desired yields and potency. Furthermore, government incentives and grants that promote sustainable agriculture and energy efficiency drive the adoption of new lighting installations.

Breakup by Spectrum:

Full-Spectrum

Partial Spectrum

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes full-spectrum and partial spectrum. According to the report, full spectrum accounted for the largest market share.

Full-spectrum lighting closely mimics natural sunlight, providing a comprehensive range of wavelengths essential for various plant growth stages. This promotes optimal photosynthesis, flowering, and overall plant development. Research is showing that plants benefit from exposure to the entire spectrum of light, including blue, red, and even wavelengths beyond visible light. Full-spectrum lighting enhances plant vigor, nutrient uptake, and essential oil production. Moreover, the demand for versatile lighting solutions for diverse plant species drives the popularity of full-spectrum lights. They cater to the needs of a wide range of crops, from leafy greens to flowering plants. Additionally, the rise of indoor and vertical farming practices necessitates lighting solutions that offer consistent and balanced illumination across different layers and growing areas. Furthermore, advancements in LED technology enable precise

customization of full-spectrum lighting, allowing growers to fine-tune light spectra for specific plant requirements.

Breakup by Application:

- Indoor Farming
- Vertical Farming
- Commercial Greenhouse
- Turf and Landscaping
- Others

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes full spectrum and partial spectrum. According to the report, commercial greenhouse accounted for the largest market share.

Grow lights play a pivotal role in commercial greenhouse operations, contributing to enhanced crop production and year-round cultivation. In greenhouses, grow lights are used to supplement natural sunlight and extend the photoperiod, particularly during low light conditions, such as winter or cloudy days. Grow lights ensure consistent and optimized light levels for plants, promoting uniform growth, development, and yield across the greenhouse. They are especially valuable for high-value crops, early-season planting, and crop varieties that require specific light conditions. Additionally, in regions with limited sunlight or extreme weather conditions, grow lights provide a reliable solution for maintaining plant health and productivity. They enable growers to diversify crop portfolios and extend the availability of fresh produce to meet market demand throughout the year. Furthermore, the controlled environment of a greenhouse combined with artificial lighting allows for precision cultivation, enabling fine-tuning of growth parameters and accelerating plant growth cycles.

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  
Argentina  
Colombia  
Chile  
Peru  
Others  
Middle East and Africa  
Turkey  
Saudi Arabia  
Iran  
United Arab Emirates  
Others

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe accounted for the largest market share.

In Europe, the grow light market is driven by the increasing focus on sustainable agriculture, efficient resource utilization, and year-round crop production. The continent's variable climate and limited arable land have prompted the adoption of indoor and vertical farming methods, spurring demand for energy-efficient and customizable grow lights. Significant advancements in LED technology cater to the need for precise light spectra, while the emphasis on local food production aligns with

efficient grow light solutions. Additionally, the expanding cannabis cultivation industry drives the demand for specialized lighting.

#### Competitive Landscape:

Key market players in the grow light market are actively engaged in various strategic initiatives to capitalize on the market's growth potential. They focus on research and development (R&D) to innovate lighting technologies that offer higher efficiency, optimized light spectra, and enhanced control for plant growth. These companies also emphasize sustainability, aiming to create energy-efficient solutions that reduce the environmental footprint of indoor farming. They collaborate with horticultural experts to understand plant needs and design lighting solutions that maximize yield and quality. Moreover, key players invest in educating growers about the benefits of different lighting technologies and their impact on crop productivity. They provide support services, technical assistance, and resources to help customers make informed decisions. Furthermore, partnerships with research institutions, universities, and agricultural organizations facilitate knowledge exchange and contribute to cutting-edge advancements in the field.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

ams-OSRAM AG  
California LightWorks  
Epistar (Ennostar Inc.)  
Everlight Electronics  
Gavita International B.V.  
Heliospectra AB  
Koninklijke Philips N.V.  
Mars Hydro  
Savant Technologies LLC  
Shenzhen Juson Technology Co. Ltd.

#### Recent Developments:

In January 2023, Polymatech Electronics, India's first semiconductor chip manufacturer specializing in Opto-semiconductors, announced the launch of its new horticulture LED products: Ravaye full-spectrum packages and modules, as well as monochromatic LEDs.

In November 2020, The New Town Kolkata Development Authority (NKDA) launched an

urban gardening project using LED grow light technology for commercial cultivation of tuberose (Rajanigandha) and chrysanthemum (dalia) plants on a two-acre land near the Biswa Bangla Gate in New Town.

In December 2022, the world's leading in-home, smart hydroponic garden brand, announced a new addition to their portfolio today - Indoor Grow Lights for houseplants. This new product line expands AeroGarden's existing grow light offerings with three new unique models, which include enhanced design elements that integrate seamlessly anywhere in the home while supporting healthy houseplant growth year-round.

### Key Questions Answered in This Report

1. What was the size of the global grow light market in 2023?
2. What is the expected growth rate of the global grow light market during 2024-2032?
3. What are the key factors driving the global grow light market?
4. What has been the impact of COVID-19 on the global grow light market?
5. What is the breakup of the global grow light market based on the technology?
6. What is the breakup of the global grow light market based on the installation type?
7. What is the breakup of the global grow light market based on the spectrum?
8. What is the breakup of the global grow light market based on the application?
9. What are the key regions in the global grow light market?
10. Who are the key players/companies in the global grow light market?



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