

Global Plant LED Grow Light Market Growth 2025-2031

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Abstracts

The global Plant LED Grow Light market size is predicted to grow from US\$ 1874 million in 2025 to US\$ 4158 million in 2031; it is expected to grow at a CAGR of 14.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

LED grow light is an artificial light source that uses LED (Light Emitting Diode) as the illuminant to meet the lighting conditions required for plant photosynthesis. In the absence of daylight, this light fixture can act as daylight, allowing plants to grow normally or better.

Artificial light source technology is increasingly used in the field of plant lighting. The light sources of traditional plant lighting are generally fluorescent lamps, metal halide lamps, high-pressure sodium lamps, and incandescent lamps. The outstanding disadvantages of these light sources are high energy consumption and high operating costs, and energy consumption costs account for 50% to 60% of the total operating costs. LED has many advantages such as high light efficiency, low heat generation, small size, and long life. It has obvious advantages in the field of plant lighting, and plant lighting will gradually be dominated by LED lighting fixtures.

Market development trend

Technology upgrade: With the continuous deepening of optical and botanical research, the spectrum design and light control strategy of LED grow lights will be more accurate

and efficient. This will further improve the growth rate and quality of plants and reduce production costs.

Application scenario expansion: In addition to traditional greenhouse planting, indoor vertical farms and home gardening, LED grow lights will also be used in more agricultural planting scenarios, such as medicinal plant cultivation, algae cultivation, etc. This will further expand the market application space of LED grow lights.

Intelligent development: With the improvement of the Internet of Things and intelligent control technology, LED grow lights will achieve more intelligent management and control. This will improve production efficiency, reduce energy consumption, and bring greater convenience and benefits to agricultural production.

Market Challenges and Opportunities

Challenges: At present, the LED grow lights market still faces some challenges, such as high initial investment costs and rapid technological updates. In addition, different plants have different requirements for lighting conditions, which also brings certain difficulties to the research and development and application of LED grow lights.

Opportunities: With the global population growth and the continuous increase in food demand, as well as the food supply pressure brought by extreme weather and geopolitical crises, LED grow lights, as an important means to improve agricultural production efficiency and quality, will usher in greater development opportunities. At the same time, the government's support and promotion of agricultural science and technology innovation will also provide strong policy guarantees for the development of the LED grow lights industry.

LP Information, Inc. (LPI) ' newest research report, the "Plant LED Grow Light Industry Forecast" looks at past sales and reviews total world Plant LED Grow Light sales in 2024, providing a comprehensive analysis by region and market sector of projected Plant LED Grow Light sales for 2025 through 2031. With Plant LED Grow Light sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Plant LED Grow Light industry.

This Insight Report provides a comprehensive analysis of the global Plant LED Grow Light landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Plant LED

Grow Light portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Plant LED Grow Light market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Plant LED Grow Light and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Plant LED Grow Light.

This report presents a comprehensive overview, market shares, and growth opportunities of Plant LED Grow Light market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Fruit and Vegetable Flower Growing Lamp

Hemp Growing Lamp

Others

Segmentation by Application:

Commercial Greenhouses

Indoor Grow Facilities

Research Applications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Signify

GE Lighting

ams OSRAM

Cree LED

Gavita

Everlight Electronics

Lumileds

Kessil

Valoya

Heliospectra AB

Senmatic

AIS LED Light

Yaham Lighting

Longood

Growray

California Lightworks

SANANBIO

Up-shine Lighting

Key Questions Addressed in this Report

What is the 10-year outlook for the global Plant LED Grow Light market?

What factors are driving Plant LED Grow Light market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Plant LED Grow Light market opportunities vary by end market size?

How does Plant LED Grow Light break out by Type, by Application?

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