

Global Agricultural LED Lighting Solutions Market Growth 2025-2031

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Abstracts

The global Agricultural LED Lighting Solutions market size is predicted to grow from US\$ 769 million in 2025 to US\$ 1126 million in 2031; it is expected to grow at a CAGR of 6.6% 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.

Agricultural LED lighting solutions refer to the use of light - emitting diode (LED) technology to provide artificial lighting for various agricultural applications, such as greenhouse cultivation, indoor farming, and plant tissue culture. LEDs are highly energy - efficient compared to traditional lighting sources like incandescent bulbs and high - pressure sodium (HPS) lamps. They consume less electricity while providing the same or better light intensity, which helps reduce energy costs in agricultural operations, especially in indoor farms or greenhouses with high - lighting requirements. LEDs have a long operational lifespan, typically lasting 50,000 to 100,000 hours or more. This reduces the frequency of bulb replacements, minimizing maintenance costs and downtime in agricultural production. LED technology allows for precise control of the light spectrum. Growers can customize the light output to meet the specific needs of different plant species and growth stages. This targeted approach to lighting can enhance plant growth, improve crop quality, and increase yields.

United States market for Agricultural LED Lighting Solutions is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Agricultural LED Lighting Solutions is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Agricultural LED Lighting Solutions is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Agricultural LED Lighting Solutions players cover Samsung, Signify Holding, Sunbird, Hubbell Incorporated, Illumitex, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

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

This Insight Report provides a comprehensive analysis of the global Agricultural LED Lighting Solutions 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 Agricultural LED Lighting Solutions portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Agricultural LED Lighting Solutions market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Agricultural LED Lighting Solutions 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 Agricultural LED Lighting Solutions.

This report presents a comprehensive overview, market shares, and growth opportunities of Agricultural LED Lighting Solutions market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Full - Spectrum LED Light

Red and Blue LED Light

White LED Light

Others

Segmentation by Application:

Horticulture

Livestock

Aquaculture

Vertical Farming

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.

Samsung

Signify Holding

Sunbird

Hubbell Incorporated

Illumitex

AKVA Group

ams OSRAM AG

California LightWorks

CBM Lighting

Current Lighting Solutions, LLC

DeLaval

Everlight Electronics Co., Ltd.

Fionia Lighting

Gavita International B.V

HATO Agricultural Lighting

Key Questions Addressed in this Report

What is the 10-year outlook for the global Agricultural LED Lighting Solutions market?

What factors are driving Agricultural LED Lighting Solutions market growth, globally and by region?

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

How do Agricultural LED Lighting Solutions market opportunities vary by end market size?

How does Agricultural LED Lighting Solutions break out by Type, by Application?

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