

Global Agricultural LED Lighting Solutions Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Agricultural LED Lighting Solutions market size was valued at US\$ 747 million in 2024 and is forecast to a readjusted size of USD 1159 million by 2031 with a CAGR of 6.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

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.

This report is a detailed and comprehensive analysis for global Agricultural LED Lighting Solutions market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Agricultural LED Lighting Solutions market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Agricultural LED Lighting Solutions market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Agricultural LED Lighting Solutions market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Agricultural LED Lighting Solutions market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Agricultural LED Lighting Solutions

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Agricultural LED Lighting Solutions market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung, Signify Holding, Sunbird, Hubbell Incorporated, Illumitex, AKVA Group, ams OSRAM AG, California LightWorks,

CBM Lighting, Current Lighting Solutions, LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Agricultural LED Lighting Solutions market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Full - Spectrum LED Light

Red and Blue LED Light

White LED Light

Others

Market segment by Application

Horticulture

Livestock

Aquaculture

Vertical Farming

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Agricultural LED Lighting Solutions product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Agricultural LED Lighting Solutions, with price, sales quantity, revenue, and global market share of Agricultural LED Lighting Solutions from 2020 to 2025.

Chapter 3, the Agricultural LED Lighting Solutions competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Agricultural LED Lighting Solutions breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Agricultural LED Lighting Solutions market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Agricultural LED Lighting Solutions.

Chapter 14 and 15, to describe Agricultural LED Lighting Solutions sales channel, distributors, customers, research findings and conclusion.

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