

# **Global Agricultural Lighting Market Size study & Forecast, by Offering (Hardware, Software, Services), by Light Source (Fluorescent, HID, LED, Others), by Wattage Type (Below 50W, 50 – 150W, Above 150W), by Installation Type (New, Retrofit), by Sales Channel (Retail/ Wholesale, Direct Sales, Online/ E-commerce), by Application (Horticulture, Livestock, Aquaculture) and Regional Analysis, 2023-2030**

<https://marketpublishers.com/r/G16F1B1C8978EN.html>

Date: September 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G16F1B1C8978EN

## **Abstracts**

Global Agricultural Lighting Market is valued at approximately USD 10.5 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 12.5% over the forecast period 2023-2030. Agricultural lighting refers to the use of artificial lights to help plants grow and thrive in indoor farming environments. It involves using specific types of light, such as LEDs, to provide the right amount and quality of light that plants need for photosynthesis. This lighting method is used to supplement or replace natural sunlight and can be adjusted to meet the specific needs of different crops. The goal is to optimize plant growth, increase yields, and extend growing seasons by providing plants with the right kind of light at the right time. The driving factors of the market are increasing demand for food production to meet needs of growing population and adoption

According to United Nations, the global population is projected is to reach 9.7 billion by 2050 which will require more food which will demand more agriculture to live as per the life style. According to the rapid transition in 2021, LED are up to 80% more efficient than traditional lighting such as fluorescent and incandescent lights. 95% of the energy in LEDs is converted into light and only 5% is wasted as heat. Moreover, vertical

farming and urban agriculture, integration with sustainable farming practices can create more opportunities in the market. However, the cost of implementation and another factor technical skill and information hampers the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Agricultural Lighting Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market. The United States and Canada have been at the forefront of adopting advanced agricultural technologies, including agricultural lighting. The region has seen substantial investments in vertical farming, greenhouse cultivation, and indoor agriculture, driving the demand for lighting solutions. Asia Pacific is the fastest growing region in this market. Countries such as China, Japan, and South Korea have been investing in modern agriculture practices, vertical farming, and greenhouse cultivation, thereby driving the demand for agricultural lighting technologies.

Major market player included in this report are:

Signify N. V

Ams-OSRAM AG

Gavita International B.V

Valoya Oy

California Lightworks Inc

DeLaval International AB

CBM Lighting

Heliospectra AB

Hortilux Schreder

General Electric

Recent Developments in the Market:

In February 2023, ams-OSRAM AG announced a collaboration using the OSOLON square platform and OSOLON SSL LEDs with the revolution microelectronics. A high light output and a fully programmable spectrum allows horticulturists to hone in on the specific phytochemical development and boost yield and increase terpene development

In December 2021, Hortilux Collaborated with LLC DTK a Russian rose company to provide them hortilux HPS NXT2 fixtures which is the perfect match for the company requirement.

### Global Agricultural Lighting Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Offering, Light Source, Wattage Type, Installation Type, Sales Channel, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving

factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Offering:

Hardware

Software

Services

Light Source:

Fluorescent

HID

LED

Others

Wattage Type:

Below 50W

50 – 150W

Above 150W

Installation Type:

New

Retrofit

Sales Channel:

Retail/ Wholesale

Direct Sales

Online/ E-commerce

By Application:

Horticulture

Livestock

Aquaculture

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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