

Vertical Farming Lighting Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Lighting Type (LED Grow Lights, Fluorescent Lights), By Farm Type, By Installation Type, By Crop Type, By End-use, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

Vertical Farming Lighting Market Summary

The global vertical farming lighting market size was valued at USD 2.9 billion in 2025 and is projected to grow from USD 3.4 billion in 2026 to USD 11.2 billion by 2033, at a CAGR of 18.6% from 2026 to 2033. North America held the largest share of over 32.0% in the global market in 2025. The market growth is primarily driven by rising demand for sustainable food production, increasing urbanization, and the need for year-round crop cultivation in controlled environments.

The shift toward energy-efficient LED lighting, growing concerns over food security, and limited availability of arable land are accelerating the adoption of advanced lighting systems in vertical farming. These lighting solutions enable precise control over plant growth conditions, improving yield and quality while reducing resource consumption. The integration of smart lighting technologies with IoT and AI drives the growth of the vertical farming lighting market. Modern vertical farming lighting systems in the agricultural lighting market are equipped with sensors and automation capabilities that allow real-time monitoring and adjustment of light intensity, duration, and spectrum. These systems can improve operational efficiency by up to 25% and are becoming a standard feature in new installations. This trend reflects the broader shift toward precision agriculture, where data-driven decisions enhance productivity and reduce

operational costs.

The market is also witnessing a shift toward customized and crop-specific lighting solutions. Different crops require different light spectra and intensities at various growth stages, and manufacturers are developing tailored lighting systems to meet these needs. This customization improves crop yield, quality, and nutritional value, making vertical farming more commercially viable. In addition, multi-layer farming systems are increasing the demand for high-performance lighting that can uniformly cover stacked growing environments.

Continued investment in urban agriculture and government support for sustainable farming initiatives are one of the important driving factors of the vertical farming lighting market. Many countries are promoting indoor farming to reduce dependency on imports and ensure food security. Urban vertical farms, often located close to consumers, rely heavily on artificial lighting due to limited natural sunlight, further increasing demand in the agricultural lighting market for advanced lighting systems. In addition, collaborations between technology providers and vertical farm operators are accelerating innovation and deployment of next-generation lighting solutions.

Moreover, the vertical farming lighting market is expected to witness strong growth due to the combined impact of technological advancements, sustainability goals, and increasing demand for locally grown food. The vertical farming LED light market is benefiting from growing recognition of the long-term advantages of advanced lighting systems, including energy savings, higher crop yields, and reduced water usage, despite the challenge of high initial investment. As the industry matures, continuous innovation in LED efficiency, smart controls, and cost optimization will play a critical role in shaping the future of the market.

Global Vertical Farming Lighting Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the vertical farming lighting market report based on component, lighting type, farm type, installation type, crop type, end-use, and region:

Component Outlook (Revenue, USD Billion, 2021 - 2033)

Hardware

Software

Services

Lighting Type Outlook (Revenue, USD Billion, 2021 - 2033)

LED Grow Lights

High-Intensity Discharge (HID) Lights

Fluorescent Lights

Others

Farm Type Outlook (Revenue, USD Billion, 2021 - 2033)

Building-based Vertical Farms

Container-based Vertical Farms

Installation Type Outlook (Revenue, USD Billion, 2021 - 2033)

New Installations

Retrofit Installations

Crop Type Outlook (Revenue, USD Billion, 2021 - 2033)

Fruits & Vegetables

Flowers & Ornamentals

Herbs & Microgreens

Nursery Crops

Others

End-use Outlook (Revenue, USD Billion, 2021 - 2033)

Commercial Growers

Research Institutions

Retail & Small-Scale Growers

Others

Regional Outlook (Revenue, USD Billion, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

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