

Vertical Farming Lighting System Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Vertical Farming Lighting System Market Overview

The global market for Vertical Farming Lighting Systems is experiencing robust growth as the demand for sustainable and efficient farming solutions increases. These systems are essential for optimizing plant growth in controlled environments such as vertical farms, hydroponics, and indoor agriculture.

Market Size

The market is anticipated to grow at a compound annual growth rate (CAGR) of 15.0% to 18.0% over the forecast period, driven by technological advancements and the increasing adoption of vertical farming practices worldwide.

Market Share & Trends Analysis

By Application

Vertical farming lighting systems are applied across various segments with different growth trajectories:

Vegetables: This segment holds the largest market share, expected to grow at a CAGR of 16.0% to 18.0%, as vegetables are the primary crops cultivated in vertical farms due to their high turnover rates and consistent demand.

Fruits: With an estimated CAGR of 14.0% to 16.0%, the fruit segment is witnessing increased adoption due to the rise in demand for fresh and locally grown fruits, particularly in urban settings.

Others: This includes a wide variety of crops, with a moderate growth rate of 12.0% to 14.0%, driven by diversification in crop production using vertical farming techniques.

By Product Type

The product type landscape reveals a growing preference for energy-efficient and advanced lighting technologies:

LED Smart Light: The dominant product segment, anticipated to grow at a CAGR of 17.0% to 19.0%, owing to their energy efficiency, long lifespan, and ability to offer customizable light spectrums for optimized plant growth.

Linear Fluorescent Lamp: Expected to see slower growth with a CAGR of 10.0% to 12.0%, as newer, more efficient lighting technologies such as LEDs take over the market.

Others: This category, which includes various light sources like HID and halogen lights, is projected to grow at a CAGR of 8.0% to 10.0%, driven by niche applications and regions with specific needs.

By Key Market Players

Leading players in the vertical farming lighting system market include:

Philips: A key market leader known for its innovative horticultural lighting solutions, including LEDs and smart systems.

Samsung: A major player in providing high-quality LED solutions that cater to various agricultural needs.

ams OSRAM: Known for its advanced LED technologies and integrated systems for vertical farming.

Orion: A prominent supplier of energy-efficient lighting systems for controlled environment agriculture.

HATO Agricultural Lighting: Specializes in agricultural lighting systems that enhance plant growth in vertical farms.

Leitech: Focuses on innovative lighting solutions tailored for the agricultural industry.

Intellias: Known for developing smart lighting solutions with IoT integration for vertical farming systems.

California LightWorks: A key player offering advanced LED lighting for indoor farming applications.

Current: A leader in providing smart and energy-efficient lighting solutions for vertical farming.

Gavita International: Specializes in professional-grade horticultural lighting systems used in vertical farming setups.

Signify: A global leader in lighting solutions, offering products designed specifically for indoor farming environments.

Heliospectra: A key innovator in spectral lighting solutions for controlled environment agriculture.

Lely: Known for agricultural automation solutions, including lighting systems for indoor farms.

Hubbell: Provides energy-efficient lighting systems with applications in vertical farming.

Luminus: Known for high-performance LED lighting solutions that are used in vertical farming applications.

Valoya: Specializes in high-efficiency LED lighting systems for various agricultural environments.

Efficiency Vermont: Focuses on promoting energy-efficient lighting systems for agricultural applications.

Hortilux: Offers specialized lighting systems for horticulture and vertical farming applications.

Chengdu Zhinong Agricultural Equipment Technology: A key regional player focused on vertical farming solutions in Asia.

Guangdong Queendom Group Technology: Provides innovative lighting systems tailored for vertical farming in China and other parts of Asia.

By Region

Regional dynamics reveal diverse growth rates across different markets:

North America: Dominates the market with an estimated CAGR of 16.0% to 17.5%, driven by growing urban farming initiatives and increasing demand for sustainable agriculture solutions.

Europe: Expected to grow at a CAGR of 14.0% to 15.5%, supported by strong demand for energy-efficient agricultural lighting and sustainable farming practices.

Asia-Pacific: The fastest-growing region, with a projected CAGR of 18.0% to 20.0%, as countries like China and Japan adopt vertical farming techniques in response to urbanization and limited arable land.

Latin America: Estimated to grow at a CAGR of 12.5% to 14.0%, driven by increasing investments in vertical farming technology in countries like Brazil.

Middle East & Africa: Expected to witness steady growth at a CAGR of 11.0% to 13.0%, due to rising interest in sustainable farming in arid regions.

Market Forecasts (2025-2030)

Key Growth Drivers

Technological Advancements: Continuous innovations in LED lighting technologies, such as smart light systems and IoT integration, are expected to drive market growth.

Urbanization and Space Constraints: As urban populations grow, the need for vertical farming solutions to produce fresh food locally is increasing.

Sustainability and Energy Efficiency: Increasing demand for energy-efficient lighting solutions that align with sustainable farming practices is driving market expansion.

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