

# Global Horticultural Lighting Sensors Market Growth 2026-2032

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## Abstracts

The global Horticultural Lighting Sensors market size is predicted to grow from US\$ 231 million in 2025 to US\$ 369 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

Horticultural lighting sensors are intelligent devices specifically designed for monitoring parameters such as light intensity, spectral distribution, and photoperiod in agricultural environments. They are widely used in greenhouses, vertical farms, and plant factories. Their core function is to collect real-time light data required by plants, assisting lighting systems in automatic adjustments to optimize photosynthetic efficiency and promote growth and yield. The product is priced at \$150 per unit, and approximately 1.5 million units have been sold worldwide.

The upstream of the horticultural lighting sensor industry chain mainly relies on photosensitive elements (such as silicon photodiodes), filters, microprocessors, and housing materials. It integrates spectral analysis algorithms, data acquisition chips, and wireless communication modules, requiring spectral response errors of no more than 5%, data refresh rates higher than 1Hz, and protection ratings of IP65 or higher. Downstream users include planting companies, agricultural research institutions, and smart farm integrators, with typical roles including planting supervisors, agricultural engineers, and environmental control engineers. Future development trends focus on multi-parameter fusion (light, temperature, CO<sub>2</sub>) and AI predictive dimming technology, achieving closed-loop linkage with smart lighting systems. High-value-added crop cultivation in North America and the construction of plant factories in Asia are the main growth drivers. The overall gross profit margin remains between 25% and 40%, while intelligent linkage products can exceed 45%.

LP Information, Inc. (LPI) ' newest research report, the “Horticultural Lighting Sensors Industry Forecast” looks at past sales and reviews total world Horticultural Lighting Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Horticultural Lighting Sensors sales for 2026 through 2032. With Horticultural Lighting Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Horticultural Lighting Sensors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Horticultural Lighting Sensors 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 Horticultural Lighting Sensors.

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

### **Segmentation by Type:**

Single Light Illumination

Combined Environmental

Others

### **Segmentation by Installation Method:**

Embedded

Integrated

Others

**Segmentation by Spectral Type:**

PAR Sensor

Full Spectrum Sensor

Red/Blue Light Sensor

Others

**Segmentation by Application:**

Indoor Horticultural

Outdoor Horticultural

**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.

ams OSRAM

Lumigrow

RED Horticulture

Hubbell Lighting

General Electric

Kessil

SenSite

VGD LED

RAYN Growing Systems

Valoya

Apogee Instruments

Autogrow

TrolMaster

Ecomatik

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Horticultural Lighting Sensors market?

What factors are driving Horticultural Lighting Sensors market growth, globally and by region?

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

How do Horticultural Lighting Sensors market opportunities vary by end market size?

How does Horticultural Lighting Sensors break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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