

Global LED Lighting for Horticulture Application Market Growth 2025-2031

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Abstracts

The global LED Lighting for Horticulture Application market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A light-emitting diode (LED) is a two-lead semiconductor light source. It is a p–n junction diode that emits light when activated. When a suitable current is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons. This effect is called electroluminescence, and the colour of the light (corresponding to the energy of the photon) is determined by the energy band gap of the semiconductor. LEDs are typically small (less than 1 mm²) and integrated optical components may be used to shape the radiation pattern.

Experiments revealed surprising performance and production of vegetables and ornamental plants under LED lightsources. A large number of plant species have been assessed in greenhouse trials to make sure that the quality of biomass and biochemical ingredients of such plants is comparable with, or even higher than, those grown in field conditions. Plant performance of mint, basil, lentil, lettuce, cabbage, parsley and carrot was measured by assessing both the health and vigor of the plants and the success of the LEDs in promoting growth. Also noticed was profuse flowering of select ornamentals including primula, marigold and stock. Light emitting diodes (LEDs) offer efficient electric lighting in desired wavelengths (red + blue) which support greenhouse production in minimum time and with high quality and quantity. As LEDs are cool, plants

can be placed as close as possible to light sources without overheating or scorching. This saves a large amount of space for intense cultivation.

LP Information, Inc. (LPI) ' newest research report, the "LED Lighting for Horticulture Application Industry Forecast" looks at past sales and reviews total world LED Lighting for Horticulture Application sales in 2024, providing a comprehensive analysis by region and market sector of projected LED Lighting for Horticulture Application sales for 2025 through 2031. With LED Lighting for Horticulture Application sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world LED Lighting for Horticulture Application industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LED Lighting for Horticulture Application 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 LED Lighting for Horticulture Application.

This report presents a comprehensive overview, market shares, and growth opportunities of LED Lighting for Horticulture Application market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

LED Lamp

LED Luminaire

Segmentation by Application:

Professional Horticulture Applications

Consumer Horticulture Applications

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.

Samsung

Philips

Cree

Nichia

Fluence Bioengineering

Heliospectra

Hubbell Lighting

Illumitex

Kessil Lighting

Lemnis Oreon

LumiGrow

Osram Sylvania

Smart Grow Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global LED Lighting for Horticulture Application market?

What factors are driving LED Lighting for Horticulture Application market growth, globally and by region?

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

How do LED Lighting for Horticulture Application market opportunities vary by end market size?

How does LED Lighting for Horticulture Application break out by Type, by Application?

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