

Global LED Lighting for Horticulture Application Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global LED Lighting for Horticulture Application market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

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.

The Global Info Research report includes an overview of the development of the LED Lighting for Horticulture Application industry chain, the market status of Professional Horticulture Applications (LED Lamp, LED Luminaire), Consumer Horticulture Applications (LED Lamp, LED Luminaire), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of LED Lighting for Horticulture Application.

Regionally, the report analyzes the LED Lighting for Horticulture Application markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global LED Lighting for Horticulture Application market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the LED Lighting for Horticulture Application market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the LED Lighting for Horticulture Application industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., LED Lamp, LED Luminaire).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the LED Lighting for Horticulture Application market.

Regional Analysis: The report involves examining the LED Lighting for Horticulture Application market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the LED Lighting for Horticulture Application market. This

may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to LED Lighting for Horticulture Application:

Company Analysis: Report covers individual LED Lighting for Horticulture Application manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards LED Lighting for Horticulture Application. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Professional Horticulture Applications, Consumer Horticulture Applications).

Technology Analysis: Report covers specific technologies relevant to LED Lighting for Horticulture Application. It assesses the current state, advancements, and potential future developments in LED Lighting for Horticulture Application areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the LED Lighting for Horticulture Application market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

LED Lighting for Horticulture Application market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

LED Lamp

LED Luminaire

Market segment by Application

Professional Horticulture Applications

Consumer Horticulture Applications

Major players covered

Samsung

Philips

Cree

Nichia

Fluence Bioengineering

Heliospectra

Hubbell Lighting

Illumitex

Kessil Lighting

Lemnis Oreon

LumiGrow

Osram Sylvania

Smart Grow Technologies

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe LED Lighting for Horticulture Application product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LED Lighting for Horticulture Application, with price, sales, revenue and global market share of LED Lighting for Horticulture Application from 2019 to 2024.

Chapter 3, the LED Lighting for Horticulture Application competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LED Lighting for Horticulture Application breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and LED Lighting for Horticulture Application market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of LED Lighting for Horticulture Application.

Chapter 14 and 15, to describe LED Lighting for Horticulture Application sales channel, distributors, customers, research findings and conclusion.

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