

Global Horticultural LED Lighting Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Horticultural LED Lighting market size will reach 1,434.65 Million USD in 2025 and is projected to reach 3,292.42 Million USD by 2032, with a CAGR of 12.60% (2025-2032). Notably, the China Horticultural LED Lighting market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Horticultural LED lighting refers to the use of light-emitting diodes (LEDs) designed specifically for the cultivation of plants. These specialized lighting systems provide artificial light tailored to meet the photosynthetic needs of plants, promoting their growth, development, and flowering. Horticultural LED lighting is widely used in controlled environment agriculture, including indoor farming, greenhouses, and vertical farming setups. LED technology allows for precise control over the light spectrum, intensity, and duration, enabling growers to optimize conditions for different plant species and growth stages. This form of lighting is energy-efficient, emits less heat, and can be customized to mimic natural sunlight, contributing to increased crop yields, accelerated growth rates, and improved overall plant health. Horticultural LED lighting has revolutionized the way plants are cultivated in indoor and controlled environments, offering a sustainable and efficient solution for year-round crop production.

The major global manufacturers of Horticultural LED Lighting include Philips, Osram, Everlight Electronics, Hubbell Lighting, Cree, General Electric, Gavita, Kessil, Fionia

Lighting, Illumitex, Lumigrow, Cidly, Valoya, Heliospectra AB, Ohmax Optoelectronic, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Horticultural LED Lighting. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Horticultural LED Lighting market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Horticultural LED Lighting market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Horticultural LED Lighting industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Horticultural LED Lighting Include:

Philips

Osram

Everlight Electronics

Hubbell Lighting

Cree

General Electric

Gavita

Kessil

Fionia Lighting

Illumitex

Lumigrow

Cidly

Valoya

Heliospectra AB

Ohmax Optoelectronic

Horticultural LED Lighting Product Segment Include:

Low Power (<300W)

High Power (>300W)

Horticultural LED Lighting Product Application Include:

Commercial Greenhouse

Indoor and Vertical Farming

R&D

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