

Global Multi-Spectrum Plant Lighting Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Multi-Spectrum Plant Lighting Module market size was valued at US\$ 2214 million in 2025 and is forecast to a readjusted size of US\$ 6112 million by 2032 with a CAGR of 15.4% during review period.

A Multi-Spectrum Plant Lighting Module is an integrated LED lighting unit designed to provide plants with a precisely controlled combination of multiple light wavelengths (such as red, blue, far-red, white, and sometimes UV). It is used in controlled environment agriculture (CEA) to optimize photosynthesis, regulate plant morphology, and enhance growth cycles. The module typically includes LED chips, optical elements, thermal management structure, and a driver/control interface, enabling programmable spectral tuning according to different plant species and growth stages. In 2025, global Multi-Spectrum Plant Lighting Module production reached approximately 11.63 M units, with an average global market price of around US\$ 185 per unit. Annual production capacity is 14.53 M units. Gross Profit Margin: 38%. The Multi-Spectrum Plant Lighting Module industry chain is structured across three main layers. Upstream includes LED chip manufacturers, driver IC suppliers, optical materials, and thermal management components, where companies such as Samsung, Cree LED, and Osram provide core light-emitting and control technologies. Midstream focuses on module and fixture manufacturing, where horticulture lighting OEMs integrate multi-channel spectral LEDs with drivers, optics, and control systems into tunable lighting modules. Downstream consists of controlled environment agriculture applications, including vertical farms, greenhouse operators, and plant factories, which drive demand through yield optimization, energy efficiency, and crop-specific spectral tuning requirements. The product category is shifting from basic horticulture lighting toward precision agricultural

lighting systems driven by spectral programmability and data-linked control. Competitive differentiation is increasingly defined by spectral tuning accuracy, system efficiency, and integration with smart farming platforms rather than simple luminous output. As controlled environment agriculture expands, demand concentrates on modular, scalable, and software-driven lighting systems that can adapt to crop cycles and environmental feedback in real time.

This report is a detailed and comprehensive analysis for global Multi-Spectrum Plant Lighting Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Spectral Control Capability and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Multi-Spectrum Plant Lighting Module market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Multi-Spectrum Plant Lighting Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Multi-Spectrum Plant Lighting Module market size and forecasts, by Spectral Control Capability and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Multi-Spectrum Plant Lighting Module market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Multi-Spectrum Plant Lighting Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Multi-Spectrum Plant Lighting Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Signify, Osram, Fluence, Gavita, Heliospectra, Valoya, Current Lighting Solutions, Hortilux Schreder, Cree LED, Samsung Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Multi-Spectrum Plant Lighting Module market is split by Spectral Control Capability and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Spectral Control Capability, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Spectral Control Capability

Fixed Spectrum Module

Switchable Spectrum Module

Tunable Spectrum Module

Full-Spectrum Programmable Module

Market segment by PPFD Level

Low PPFD Module (600 ?mol/m²/s)

Market segment by Power Rating

Low Power Module (500W)

Market segment by Application

Vertical Farming

Greenhouse Supplementary

Plant Factory

Home/Small Grow Plant

Others

Major players covered

Signify

Osram

Fluence

Gavita

Heliospectra

Valoya

Current Lighting Solutions

Hortilux Schreder

Cree LED

Samsung Electronics

LG Innotek

Everlight Electronics

Sananbio

Yaham Lighting

Ohmax Optoelectronic

Vanq Technology

Cidly Technology

Lumigrow

Illumitex

California Lightworks

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 Multi-Spectrum Plant Lighting Module product scope,

market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Multi-Spectrum Plant Lighting Module, with price, sales quantity, revenue, and global market share of Multi-Spectrum Plant Lighting Module from 2021 to 2026.

Chapter 3, the Multi-Spectrum Plant Lighting Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Multi-Spectrum Plant Lighting Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Spectral Control Capability and by Application, with sales market share and growth rate by Spectral Control Capability, by Application, from 2021 to 2032.

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 2021 to 2026. and Multi-Spectrum Plant Lighting Module market forecast, by regions, by Spectral Control Capability, and by Application, with sales and revenue, from 2027 to 2032.

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 Multi-Spectrum Plant Lighting Module.

Chapter 14 and 15, to describe Multi-Spectrum Plant Lighting Module sales channel, distributors, customers, research findings and conclusion.

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