

Global Multi-Spectrum Plant Lighting Module Market Growth 2026-2032

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Abstracts

The global Multi-Spectrum Plant Lighting Module market size is predicted to grow from US\$ 2105 million in 2025 to US\$ 6108 million in 2032; it is expected to grow at a CAGR of 16.4% from 2026 to 2032.

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.

United States market for Multi-Spectrum Plant Lighting Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Multi-Spectrum Plant Lighting Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Multi-Spectrum Plant Lighting Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Multi-Spectrum Plant Lighting Module players cover Signify, Osram, Fluence, Gavita, Heliospectra, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Multi-Spectrum Plant Lighting Module and breaks down the forecast by Spectral Control Capability, 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 Multi-Spectrum Plant Lighting Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Multi-Spectrum Plant Lighting Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Spectral Control Capability:

Fixed Spectrum Module

Switchable Spectrum Module

Tunable Spectrum Module

Full-Spectrum Programmable Module

Segmentation by PPFD Level:

Low PPFD Module (600 $\mu\text{mol}/\text{m}^2/\text{s}$)

Segmentation by Power Rating:

Low Power Module (500W)

Segmentation by Application:

Vertical Farming

Greenhouse Supplementary

Plant Factory

Home/Small Grow Plant

Others

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.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Multi-Spectrum Plant Lighting Module market?

What factors are driving Multi-Spectrum Plant Lighting Module market growth, globally and by region?

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

How do Multi-Spectrum Plant Lighting Module market opportunities vary by end market size?

How does Multi-Spectrum Plant Lighting Module break out by Spectral Control Capability, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Multi-Spectrum Plant Lighting Module Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Multi-Spectrum Plant Lighting Module by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Multi-Spectrum Plant Lighting Module by Country/Region, 2021, 2025 & 2032
- 2.2 Multi-Spectrum Plant Lighting Module Segment by Spectral Control Capability
 - 2.2.1 Fixed Spectrum Module
 - 2.2.2 Switchable Spectrum Module
 - 2.2.3 Tunable Spectrum Module
 - 2.2.4 Full-Spectrum Programmable Module
 - 2.2.5 Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability
 - 2.2.5.1 Global Multi-Spectrum Plant Lighting Module Sales Market Share by Spectral Control Capability (2021-2026)
 - 2.2.5.2 Global Multi-Spectrum Plant Lighting Module Revenue and Market Share by Spectral Control Capability (2021-2026)
 - 2.2.5.3 Global Multi-Spectrum Plant Lighting Module Sale Price by Spectral Control Capability (2021-2026)
- 2.3 Multi-Spectrum Plant Lighting Module Segment by PPFD Level
 - 2.3.1 Low PPFD Module (600 $\mu\text{mol}/\text{m}^2/\text{s}$)
 - 2.3.4 Multi-Spectrum Plant Lighting Module Sales by PPFD Level
 - 2.3.4.1 Global Multi-Spectrum Plant Lighting Module Sales Market Share by PPFD Level (2021-2026)
 - 2.3.4.2 Global Multi-Spectrum Plant Lighting Module Revenue and Market Share by

PPFD Level (2021-2026)

2.3.4.3 Global Multi-Spectrum Plant Lighting Module Sale Price by PPFD Level (2021-2026)

2.4 Multi-Spectrum Plant Lighting Module Segment by Power Rating

2.4.1 Low Power Module (500W)

2.4.4 Multi-Spectrum Plant Lighting Module Sales by Power Rating

2.4.4.1 Global Multi-Spectrum Plant Lighting Module Sales Market Share by Power Rating (2021-2026)

2.4.4.2 Global Multi-Spectrum Plant Lighting Module Revenue and Market Share by Power Rating (2021-2026)

2.4.4.3 Global Multi-Spectrum Plant Lighting Module Sale Price by Power Rating (2021-2026)

2.5 Multi-Spectrum Plant Lighting Module Segment by Application

2.5.1 Vertical Farming

2.5.2 Greenhouse Supplementary

2.5.3 Plant Factory

2.5.4 Home/Small Grow Plant

2.5.5 Others

2.5.6 Multi-Spectrum Plant Lighting Module Sales by Application

2.5.6.1 Global Multi-Spectrum Plant Lighting Module Sale Market Share by Application (2021-2026)

2.5.6.2 Global Multi-Spectrum Plant Lighting Module Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Multi-Spectrum Plant Lighting Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Multi-Spectrum Plant Lighting Module Breakdown Data by Company

3.1.1 Global Multi-Spectrum Plant Lighting Module Annual Sales by Company (2021-2026)

3.1.2 Global Multi-Spectrum Plant Lighting Module Sales Market Share by Company (2021-2026)

3.2 Global Multi-Spectrum Plant Lighting Module Annual Revenue by Company (2021-2026)

3.2.1 Global Multi-Spectrum Plant Lighting Module Revenue by Company (2021-2026)

3.2.2 Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Company (2021-2026)

3.3 Global Multi-Spectrum Plant Lighting Module Sale Price by Company

3.4 Key Manufacturers Multi-Spectrum Plant Lighting Module Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Multi-Spectrum Plant Lighting Module Product Location Distribution

3.4.2 Players Multi-Spectrum Plant Lighting Module Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MULTI-SPECTRUM PLANT LIGHTING MODULE BY GEOGRAPHIC REGION

4.1 World Historic Multi-Spectrum Plant Lighting Module Market Size by Geographic Region (2021-2026)

4.1.1 Global Multi-Spectrum Plant Lighting Module Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Multi-Spectrum Plant Lighting Module Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Multi-Spectrum Plant Lighting Module Market Size by Country/Region (2021-2026)

4.2.1 Global Multi-Spectrum Plant Lighting Module Annual Sales by Country/Region (2021-2026)

4.2.2 Global Multi-Spectrum Plant Lighting Module Annual Revenue by Country/Region (2021-2026)

4.3 Americas Multi-Spectrum Plant Lighting Module Sales Growth

4.4 APAC Multi-Spectrum Plant Lighting Module Sales Growth

4.5 Europe Multi-Spectrum Plant Lighting Module Sales Growth

4.6 Middle East & Africa Multi-Spectrum Plant Lighting Module Sales Growth

5 AMERICAS

5.1 Americas Multi-Spectrum Plant Lighting Module Sales by Country

5.1.1 Americas Multi-Spectrum Plant Lighting Module Sales by Country (2021-2026)

5.1.2 Americas Multi-Spectrum Plant Lighting Module Revenue by Country (2021-2026)

5.2 Americas Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026)

5.3 Americas Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Multi-Spectrum Plant Lighting Module Sales by Region

6.1.1 APAC Multi-Spectrum Plant Lighting Module Sales by Region (2021-2026)

6.1.2 APAC Multi-Spectrum Plant Lighting Module Revenue by Region (2021-2026)

6.2 APAC Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026)

6.3 APAC Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Multi-Spectrum Plant Lighting Module by Country

7.1.1 Europe Multi-Spectrum Plant Lighting Module Sales by Country (2021-2026)

7.1.2 Europe Multi-Spectrum Plant Lighting Module Revenue by Country (2021-2026)

7.2 Europe Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026)

7.3 Europe Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Multi-Spectrum Plant Lighting Module by Country

8.1.1 Middle East & Africa Multi-Spectrum Plant Lighting Module Sales by Country (2021-2026)

8.1.2 Middle East & Africa Multi-Spectrum Plant Lighting Module Revenue by Country (2021-2026)

8.2 Middle East & Africa Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026)

8.3 Middle East & Africa Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Multi-Spectrum Plant Lighting Module

10.3 Manufacturing Process Analysis of Multi-Spectrum Plant Lighting Module

10.4 Industry Chain Structure of Multi-Spectrum Plant Lighting Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Multi-Spectrum Plant Lighting Module Distributors

11.3 Multi-Spectrum Plant Lighting Module Customer

12 WORLD FORECAST REVIEW FOR MULTI-SPECTRUM PLANT LIGHTING MODULE BY GEOGRAPHIC REGION

12.1 Global Multi-Spectrum Plant Lighting Module Market Size Forecast by Region

- 12.1.1 Global Multi-Spectrum Plant Lighting Module Forecast by Region (2027-2032)
- 12.1.2 Global Multi-Spectrum Plant Lighting Module Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Multi-Spectrum Plant Lighting Module Forecast by Spectral Control Capability (2027-2032)
- 12.7 Global Multi-Spectrum Plant Lighting Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Signify

- 13.1.1 Signify Company Information
- 13.1.2 Signify Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
- 13.1.3 Signify Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Signify Main Business Overview
- 13.1.5 Signify Latest Developments

13.2 Osram

- 13.2.1 Osram Company Information
- 13.2.2 Osram Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
- 13.2.3 Osram Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Osram Main Business Overview
- 13.2.5 Osram Latest Developments

13.3 Fluence

- 13.3.1 Fluence Company Information
- 13.3.2 Fluence Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
- 13.3.3 Fluence Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Fluence Main Business Overview
- 13.3.5 Fluence Latest Developments

13.4 Gavita

- 13.4.1 Gavita Company Information

- 13.4.2 Gavita Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
- 13.4.3 Gavita Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Gavita Main Business Overview
- 13.4.5 Gavita Latest Developments
- 13.5 Heliospectra
 - 13.5.1 Heliospectra Company Information
 - 13.5.2 Heliospectra Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.5.3 Heliospectra Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Heliospectra Main Business Overview
 - 13.5.5 Heliospectra Latest Developments
- 13.6 Valoya
 - 13.6.1 Valoya Company Information
 - 13.6.2 Valoya Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.6.3 Valoya Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Valoya Main Business Overview
 - 13.6.5 Valoya Latest Developments
- 13.7 Current Lighting Solutions
 - 13.7.1 Current Lighting Solutions Company Information
 - 13.7.2 Current Lighting Solutions Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.7.3 Current Lighting Solutions Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Current Lighting Solutions Main Business Overview
 - 13.7.5 Current Lighting Solutions Latest Developments
- 13.8 Hortilux Schreder
 - 13.8.1 Hortilux Schreder Company Information
 - 13.8.2 Hortilux Schreder Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.8.3 Hortilux Schreder Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Hortilux Schreder Main Business Overview
 - 13.8.5 Hortilux Schreder Latest Developments
- 13.9 Cree LED

- 13.9.1 Cree LED Company Information
- 13.9.2 Cree LED Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
- 13.9.3 Cree LED Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.9.4 Cree LED Main Business Overview
- 13.9.5 Cree LED Latest Developments
- 13.10 Samsung Electronics
 - 13.10.1 Samsung Electronics Company Information
 - 13.10.2 Samsung Electronics Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.10.3 Samsung Electronics Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Samsung Electronics Main Business Overview
 - 13.10.5 Samsung Electronics Latest Developments
- 13.11 LG Innotek
 - 13.11.1 LG Innotek Company Information
 - 13.11.2 LG Innotek Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.11.3 LG Innotek Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 LG Innotek Main Business Overview
 - 13.11.5 LG Innotek Latest Developments
- 13.12 Everlight Electronics
 - 13.12.1 Everlight Electronics Company Information
 - 13.12.2 Everlight Electronics Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.12.3 Everlight Electronics Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Everlight Electronics Main Business Overview
 - 13.12.5 Everlight Electronics Latest Developments
- 13.13 Sananbio
 - 13.13.1 Sananbio Company Information
 - 13.13.2 Sananbio Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications
 - 13.13.3 Sananbio Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Sananbio Main Business Overview
 - 13.13.5 Sananbio Latest Developments

13.14 Yaham Lighting

13.14.1 Yaham Lighting Company Information

13.14.2 Yaham Lighting Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

13.14.3 Yaham Lighting Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Yaham Lighting Main Business Overview

13.14.5 Yaham Lighting Latest Developments

13.15 Ohmax Optoelectronic

13.15.1 Ohmax Optoelectronic Company Information

13.15.2 Ohmax Optoelectronic Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

13.15.3 Ohmax Optoelectronic Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Ohmax Optoelectronic Main Business Overview

13.15.5 Ohmax Optoelectronic Latest Developments

13.16 Vanq Technology

13.16.1 Vanq Technology Company Information

13.16.2 Vanq Technology Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

13.16.3 Vanq Technology Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Vanq Technology Main Business Overview

13.16.5 Vanq Technology Latest Developments

13.17 Cidly Technology

13.17.1 Cidly Technology Company Information

13.17.2 Cidly Technology Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

13.17.3 Cidly Technology Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Cidly Technology Main Business Overview

13.17.5 Cidly Technology Latest Developments

13.18 Lumigrow

13.18.1 Lumigrow Company Information

13.18.2 Lumigrow Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

13.18.3 Lumigrow Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Lumigrow Main Business Overview

13.18.5 Lumigrow Latest Developments

13.19 Illumitex

13.19.1 Illumitex Company Information

13.19.2 Illumitex Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

13.19.3 Illumitex Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Illumitex Main Business Overview

13.19.5 Illumitex Latest Developments

13.20 California Lightworks

13.20.1 California Lightworks Company Information

13.20.2 California Lightworks Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

13.20.3 California Lightworks Multi-Spectrum Plant Lighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 California Lightworks Main Business Overview

13.20.5 California Lightworks Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Multi-Spectrum Plant Lighting Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Multi-Spectrum Plant Lighting Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Fixed Spectrum Module

Table 4. Major Players of Switchable Spectrum Module

Table 5. Major Players of Tunable Spectrum Module

Table 6. Major Players of Full-Spectrum Programmable Module

Table 7. Global Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026) & (Units)

Table 8. Global Multi-Spectrum Plant Lighting Module Sales Market Share by Spectral Control Capability (2021-2026)

Table 9. Global Multi-Spectrum Plant Lighting Module Revenue by Spectral Control Capability (2021-2026) & (\$ million)

Table 10. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Spectral Control Capability (2021-2026)

Table 11. Global Multi-Spectrum Plant Lighting Module Sale Price by Spectral Control Capability (2021-2026) & (US\$/Unit)

Table 12. Major Players of Low PPFD Module (600 $\mu\text{mol}/\text{m}^2/\text{s}$)

Table 15. Global Multi-Spectrum Plant Lighting Module Sales by PPFD Level (2021-2026) & (Units)

Table 16. Global Multi-Spectrum Plant Lighting Module Sales Market Share by PPFD Level (2021-2026)

Table 17. Global Multi-Spectrum Plant Lighting Module Revenue by PPFD Level (2021-2026) & (\$ million)

Table 18. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by PPFD Level (2021-2026)

Table 19. Global Multi-Spectrum Plant Lighting Module Sale Price by PPFD Level (2021-2026) & (US\$/Unit)

Table 20. Major Players of Low Power Module (500W)

Table 23. Global Multi-Spectrum Plant Lighting Module Sales by Power Rating (2021-2026) & (Units)

Table 24. Global Multi-Spectrum Plant Lighting Module Sales Market Share by Power Rating (2021-2026)

Table 25. Global Multi-Spectrum Plant Lighting Module Revenue by Power Rating

(2021-2026) & (\$ million)

Table 26. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Power Rating (2021-2026)

Table 27. Global Multi-Spectrum Plant Lighting Module Sale Price by Power Rating (2021-2026) & (US\$/Unit)

Table 28. Global Multi-Spectrum Plant Lighting Module Sale by Application (2021-2026) & (Units)

Table 29. Global Multi-Spectrum Plant Lighting Module Sale Market Share by Application (2021-2026)

Table 30. Global Multi-Spectrum Plant Lighting Module Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Application (2021-2026)

Table 32. Global Multi-Spectrum Plant Lighting Module Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Multi-Spectrum Plant Lighting Module Sales by Company (2021-2026) & (Units)

Table 34. Global Multi-Spectrum Plant Lighting Module Sales Market Share by Company (2021-2026)

Table 35. Global Multi-Spectrum Plant Lighting Module Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Company (2021-2026)

Table 37. Global Multi-Spectrum Plant Lighting Module Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Multi-Spectrum Plant Lighting Module Producing Area Distribution and Sales Area

Table 39. Players Multi-Spectrum Plant Lighting Module Products Offered

Table 40. Multi-Spectrum Plant Lighting Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Multi-Spectrum Plant Lighting Module Sales by Geographic Region (2021-2026) & (Units)

Table 44. Global Multi-Spectrum Plant Lighting Module Sales Market Share Geographic Region (2021-2026)

Table 45. Global Multi-Spectrum Plant Lighting Module Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by

Geographic Region (2021-2026)

Table 47. Global Multi-Spectrum Plant Lighting Module Sales by Country/Region (2021-2026) & (Units)

Table 48. Global Multi-Spectrum Plant Lighting Module Sales Market Share by Country/Region (2021-2026)

Table 49. Global Multi-Spectrum Plant Lighting Module Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Multi-Spectrum Plant Lighting Module Sales by Country (2021-2026) & (Units)

Table 52. Americas Multi-Spectrum Plant Lighting Module Sales Market Share by Country (2021-2026)

Table 53. Americas Multi-Spectrum Plant Lighting Module Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026) & (Units)

Table 55. Americas Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026) & (Units)

Table 56. APAC Multi-Spectrum Plant Lighting Module Sales by Region (2021-2026) & (Units)

Table 57. APAC Multi-Spectrum Plant Lighting Module Sales Market Share by Region (2021-2026)

Table 58. APAC Multi-Spectrum Plant Lighting Module Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026) & (Units)

Table 60. APAC Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026) & (Units)

Table 61. Europe Multi-Spectrum Plant Lighting Module Sales by Country (2021-2026) & (Units)

Table 62. Europe Multi-Spectrum Plant Lighting Module Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026) & (Units)

Table 64. Europe Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026) & (Units)

Table 65. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales by Country (2021-2026) & (Units)

Table 66. Middle East & Africa Multi-Spectrum Plant Lighting Module Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales by Spectral Control Capability (2021-2026) & (Units)

Table 68. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales by Application (2021-2026) & (Units)

Table 69. Key Market Drivers & Growth Opportunities of Multi-Spectrum Plant Lighting Module

Table 70. Key Market Challenges & Risks of Multi-Spectrum Plant Lighting Module

Table 71. Key Industry Trends of Multi-Spectrum Plant Lighting Module

Table 72. Multi-Spectrum Plant Lighting Module Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. Multi-Spectrum Plant Lighting Module Distributors List

Table 75. Multi-Spectrum Plant Lighting Module Customer List

Table 76. Global Multi-Spectrum Plant Lighting Module Sales Forecast by Region (2027-2032) & (Units)

Table 77. Global Multi-Spectrum Plant Lighting Module Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas Multi-Spectrum Plant Lighting Module Sales Forecast by Country (2027-2032) & (Units)

Table 79. Americas Multi-Spectrum Plant Lighting Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC Multi-Spectrum Plant Lighting Module Sales Forecast by Region (2027-2032) & (Units)

Table 81. APAC Multi-Spectrum Plant Lighting Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe Multi-Spectrum Plant Lighting Module Sales Forecast by Country (2027-2032) & (Units)

Table 83. Europe Multi-Spectrum Plant Lighting Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales Forecast by Country (2027-2032) & (Units)

Table 85. Middle East & Africa Multi-Spectrum Plant Lighting Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global Multi-Spectrum Plant Lighting Module Sales Forecast by Spectral Control Capability (2027-2032) & (Units)

Table 87. Global Multi-Spectrum Plant Lighting Module Revenue Forecast by Spectral Control Capability (2027-2032) & (\$ millions)

Table 88. Global Multi-Spectrum Plant Lighting Module Sales Forecast by Application

(2027-2032) & (Units)

Table 89. Global Multi-Spectrum Plant Lighting Module Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Signify Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 91. Signify Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 92. Signify Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Signify Main Business

Table 94. Signify Latest Developments

Table 95. Osram Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 96. Osram Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 97. Osram Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Osram Main Business

Table 99. Osram Latest Developments

Table 100. Fluence Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 101. Fluence Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 102. Fluence Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Fluence Main Business

Table 104. Fluence Latest Developments

Table 105. Gavita Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 106. Gavita Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 107. Gavita Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Gavita Main Business

Table 109. Gavita Latest Developments

Table 110. Heliospectra Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 111. Heliospectra Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 112. Heliospectra Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Heliospectra Main Business

Table 114. Heliospectra Latest Developments

Table 115. Valoya Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 116. Valoya Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 117. Valoya Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Valoya Main Business

Table 119. Valoya Latest Developments

Table 120. Current Lighting Solutions Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 121. Current Lighting Solutions Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 122. Current Lighting Solutions Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Current Lighting Solutions Main Business

Table 124. Current Lighting Solutions Latest Developments

Table 125. Hortilux Schreder Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 126. Hortilux Schreder Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 127. Hortilux Schreder Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Hortilux Schreder Main Business

Table 129. Hortilux Schreder Latest Developments

Table 130. Cree LED Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 131. Cree LED Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 132. Cree LED Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Cree LED Main Business

Table 134. Cree LED Latest Developments

Table 135. Samsung Electronics Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 136. Samsung Electronics Multi-Spectrum Plant Lighting Module Product

Portfolios and Specifications

Table 137. Samsung Electronics Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Samsung Electronics Main Business

Table 139. Samsung Electronics Latest Developments

Table 140. LG Innotek Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 141. LG Innotek Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 142. LG Innotek Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. LG Innotek Main Business

Table 144. LG Innotek Latest Developments

Table 145. Everlight Electronics Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 146. Everlight Electronics Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 147. Everlight Electronics Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Everlight Electronics Main Business

Table 149. Everlight Electronics Latest Developments

Table 150. Sananbio Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 151. Sananbio Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 152. Sananbio Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Sananbio Main Business

Table 154. Sananbio Latest Developments

Table 155. Yaham Lighting Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 156. Yaham Lighting Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 157. Yaham Lighting Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Yaham Lighting Main Business

Table 159. Yaham Lighting Latest Developments

Table 160. Ohmax Optoelectronic Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 161. Ohmax Optoelectronic Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 162. Ohmax Optoelectronic Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 163. Ohmax Optoelectronic Main Business

Table 164. Ohmax Optoelectronic Latest Developments

Table 165. Vanq Technology Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 166. Vanq Technology Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 167. Vanq Technology Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 168. Vanq Technology Main Business

Table 169. Vanq Technology Latest Developments

Table 170. Cidly Technology Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 171. Cidly Technology Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 172. Cidly Technology Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 173. Cidly Technology Main Business

Table 174. Cidly Technology Latest Developments

Table 175. Lumigrow Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 176. Lumigrow Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 177. Lumigrow Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 178. Lumigrow Main Business

Table 179. Lumigrow Latest Developments

Table 180. Illumitex Basic Information, Multi-Spectrum Plant Lighting Module Manufacturing Base, Sales Area and Its Competitors

Table 181. Illumitex Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 182. Illumitex Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 183. Illumitex Main Business

Table 184. Illumitex Latest Developments

Table 185. California Lightworks Basic Information, Multi-Spectrum Plant Lighting

Module Manufacturing Base, Sales Area and Its Competitors

Table 186. California Lightworks Multi-Spectrum Plant Lighting Module Product Portfolios and Specifications

Table 187. California Lightworks Multi-Spectrum Plant Lighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 188. California Lightworks Main Business

Table 189. California Lightworks Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Multi-Spectrum Plant Lighting Module
- Figure 2. Multi-Spectrum Plant Lighting Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Multi-Spectrum Plant Lighting Module Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Multi-Spectrum Plant Lighting Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Multi-Spectrum Plant Lighting Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Multi-Spectrum Plant Lighting Module Sales Market Share by Country/Region (2025)
- Figure 10. Multi-Spectrum Plant Lighting Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Fixed Spectrum Module
- Figure 12. Product Picture of Switchable Spectrum Module
- Figure 13. Product Picture of Tunable Spectrum Module
- Figure 14. Product Picture of Full-Spectrum Programmable Module
- Figure 15. Global Multi-Spectrum Plant Lighting Module Sales Market Share by Spectral Control Capability in 2026
- Figure 16. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Spectral Control Capability (2021-2026)
- Figure 17. Product Picture of Low PPFD Module (600 $\mu\text{mol}/\text{m}^2/\text{s}$)
- Figure 20. Global Multi-Spectrum Plant Lighting Module Sales Market Share by PPFD Level in 2026
- Figure 21. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by PPFD Level (2021-2026)
- Figure 22. Product Picture of Low Power Module (500W)
- Figure 25. Global Multi-Spectrum Plant Lighting Module Sales Market Share by Power Rating in 2026
- Figure 26. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by Power Rating (2021-2026)
- Figure 27. Multi-Spectrum Plant Lighting Module Consumed in Vertical Farming
- Figure 28. Global Multi-Spectrum Plant Lighting Module Market: Vertical Farming

(2021-2026) & (Units)

Figure 29. Multi-Spectrum Plant Lighting Module Consumed in Greenhouse
Supplementary

Figure 30. Global Multi-Spectrum Plant Lighting Module Market: Greenhouse
Supplementary (2021-2026) & (Units)

Figure 31. Multi-Spectrum Plant Lighting Module Consumed in Plant Factory

Figure 32. Global Multi-Spectrum Plant Lighting Module Market: Plant Factory
(2021-2026) & (Units)

Figure 33. Multi-Spectrum Plant Lighting Module Consumed in Home/Small Grow Plant

Figure 34. Global Multi-Spectrum Plant Lighting Module Market: Home/Small Grow
Plant (2021-2026) & (Units)

Figure 35. Multi-Spectrum Plant Lighting Module Consumed in Others

Figure 36. Global Multi-Spectrum Plant Lighting Module Market: Others (2021-2026) &
(Units)

Figure 37. Global Multi-Spectrum Plant Lighting Module Sale Market Share by
Application (2025)

Figure 38. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by
Application in 2025

Figure 39. Multi-Spectrum Plant Lighting Module Sales by Company in 2025 (Units)

Figure 40. Global Multi-Spectrum Plant Lighting Module Sales Market Share by
Company in 2025

Figure 41. Multi-Spectrum Plant Lighting Module Revenue by Company in 2025 (\$
millions)

Figure 42. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by
Company in 2025

Figure 43. Global Multi-Spectrum Plant Lighting Module Sales Market Share by
Geographic Region (2021-2026)

Figure 44. Global Multi-Spectrum Plant Lighting Module Revenue Market Share by
Geographic Region in 2025

Figure 45. Americas Multi-Spectrum Plant Lighting Module Sales 2021-2026 (Units)

Figure 46. Americas Multi-Spectrum Plant Lighting Module Revenue 2021-2026 (\$
millions)

Figure 47. APAC Multi-Spectrum Plant Lighting Module Sales 2021-2026 (Units)

Figure 48. APAC Multi-Spectrum Plant Lighting Module Revenue 2021-2026 (\$ millions)

Figure 49. Europe Multi-Spectrum Plant Lighting Module Sales 2021-2026 (Units)

Figure 50. Europe Multi-Spectrum Plant Lighting Module Revenue 2021-2026 (\$
millions)

Figure 51. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales 2021-2026
(Units)

Figure 52. Middle East & Africa Multi-Spectrum Plant Lighting Module Revenue 2021-2026 (\$ millions)

Figure 53. Americas Multi-Spectrum Plant Lighting Module Sales Market Share by Country in 2025

Figure 54. Americas Multi-Spectrum Plant Lighting Module Revenue Market Share by Country (2021-2026)

Figure 55. Americas Multi-Spectrum Plant Lighting Module Sales Market Share by Spectral Control Capability (2021-2026)

Figure 56. Americas Multi-Spectrum Plant Lighting Module Sales Market Share by Application (2021-2026)

Figure 57. United States Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Multi-Spectrum Plant Lighting Module Sales Market Share by Region in 2025

Figure 62. APAC Multi-Spectrum Plant Lighting Module Revenue Market Share by Region (2021-2026)

Figure 63. APAC Multi-Spectrum Plant Lighting Module Sales Market Share by Spectral Control Capability (2021-2026)

Figure 64. APAC Multi-Spectrum Plant Lighting Module Sales Market Share by Application (2021-2026)

Figure 65. China Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 66. Japan Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Korea Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 68. Southeast Asia Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 69. India Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 70. Australia Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 71. China Taiwan Multi-Spectrum Plant Lighting Module Revenue Growth

2021-2026 (\$ millions)

Figure 72. Europe Multi-Spectrum Plant Lighting Module Sales Market Share by Country in 2025

Figure 73. Europe Multi-Spectrum Plant Lighting Module Revenue Market Share by Country (2021-2026)

Figure 74. Europe Multi-Spectrum Plant Lighting Module Sales Market Share by Spectral Control Capability (2021-2026)

Figure 75. Europe Multi-Spectrum Plant Lighting Module Sales Market Share by Application (2021-2026)

Figure 76. Germany Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 77. France Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 78. UK Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 79. Italy Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 80. Russia Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 81. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales Market Share by Country (2021-2026)

Figure 82. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales Market Share by Spectral Control Capability (2021-2026)

Figure 83. Middle East & Africa Multi-Spectrum Plant Lighting Module Sales Market Share by Application (2021-2026)

Figure 84. Egypt Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Africa Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 86. Israel Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 87. Turkey Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 88. GCC Countries Multi-Spectrum Plant Lighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 89. Manufacturing Cost Structure Analysis of Multi-Spectrum Plant Lighting Module in 2026

Figure 90. Manufacturing Process Analysis of Multi-Spectrum Plant Lighting Module

Figure 91. Industry Chain Structure of Multi-Spectrum Plant Lighting Module

Figure 92. Channels of Distribution

Figure 93. Global Multi-Spectrum Plant Lighting Module Sales Market Forecast by Region (2027-2032)

Figure 94. Global Multi-Spectrum Plant Lighting Module Revenue Market Share Forecast by Region (2027-2032)

Figure 95. Global Multi-Spectrum Plant Lighting Module Sales Market Share Forecast by Spectral Control Capability (2027-2032)

Figure 96. Global Multi-Spectrum Plant Lighting Module Revenue Market Share Forecast by Spectral Control Capability (2027-2032)

Figure 97. Global Multi-Spectrum Plant Lighting Module Sales Market Share Forecast by Application (2027-2032)

Figure 98. Global Multi-Spectrum Plant Lighting Module Revenue Market Share Forecast by Application (2027-2032)

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