

Global LED Plant Grow Light Market Growth 2025-2031

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Abstracts

The global LED Plant Grow Light market size is predicted to grow from US\$ 1765 million in 2025 to US\$ 3939 million in 2031; it is expected to grow at a CAGR of 14.3% 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.

LED Plant Grow Lights are composed of light-emitting diodes, usually in a casing with a heat sink and built-in fans. LED grow lights do not usually require separate ballast and can be plugged directly into a standard electrical socket. LED grow lights can act as daylight in the absence of sunlight, so that plants can be normal or better growth and development. LED grow lights has strong roots, encourage, adjust the flowering, color, to promote fruit ripening, color, enhance the taste and quality of the role.

Artificial light source technology is increasingly used in the field of plant lighting. The light sources of traditional plant lighting are generally fluorescent lamps, metal halide lamps, high-pressure sodium lamps, and incandescent lamps. The outstanding disadvantages of these light sources are high energy consumption and high operating costs, and energy consumption costs account for 50% to 60% of the total operating costs. LED has many advantages such as high light efficiency, low heat generation, small size, and long life. It has obvious advantages in the field of plant lighting, and plant lighting will gradually be dominated by LED lighting fixtures.

Market development trend

Technology upgrade: With the continuous deepening of optical and botanical research, the spectrum design and light control strategy of LED plant grow lights will be more accurate and efficient. This will further improve the growth rate and quality of plants and reduce production costs.

Application scenario expansion: In addition to traditional greenhouse planting, indoor vertical farms and home gardening, LED plant grow lights will also be used in more agricultural planting scenarios, such as medicinal plant cultivation, algae cultivation, etc. This will further expand the market application space of LED plant grow lights.

Intelligent development: With the improvement of the Internet of Things and intelligent control technology, LED plant grow lights will achieve more intelligent management and control. This will improve production efficiency, reduce energy consumption, and bring greater convenience and benefits to agricultural production.

Market Challenges and Opportunities

Challenges: At present, the LED plant grow lights market still faces some challenges, such as high initial investment costs and rapid technological updates. In addition, different plants have different requirements for lighting conditions, which also brings certain difficulties to the research and development and application of LED plant grow lights.

Opportunities: With the global population growth and the continuous increase in food demand, as well as the food supply pressure brought by extreme weather and geopolitical crises, LED plant grow lights, as an important means to improve agricultural production efficiency and quality, will usher in greater development opportunities. At the same time, the government's support and promotion of agricultural science and technology innovation will also provide strong policy guarantees for the development of the LED plant grow lights industry.

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

This Insight Report provides a comprehensive analysis of the global LED Plant Grow

Light 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 Plant Grow Light portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global LED Plant Grow Light market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LED Plant Grow Light 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 Plant Grow Light.

This report presents a comprehensive overview, market shares, and growth opportunities of LED Plant Grow Light market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low Power (Below 300W)

High Power (Above 300W)

Segmentation by Application:

Commercial Greenhouses

Indoor Grow Facilities

Research 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.

Signify

GE Lighting

ams OSRAM

Cree LED

Gavita

Everlight Electronics

Lumileds

Kessil

Valoya

Heliospectra AB

Senmatic

AIS LED Light

Yaham Lighting

Longood

Growray

California Lightworks

SANANBIO

Up-shine Lighting

Key Questions Addressed in this Report

What is the 10-year outlook for the global LED Plant Grow Light market?

What factors are driving LED Plant Grow Light market growth, globally and by region?

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

How do LED Plant Grow Light market opportunities vary by end market size?

How does LED Plant Grow Light break out by Type, 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 LED Plant Grow Light Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for LED Plant Grow Light by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for LED Plant Grow Light by Country/Region, 2020, 2024 & 2031
- 2.2 LED Plant Grow Light Segment by Type
 - 2.2.1 Low Power (Below 300W)
 - 2.2.2 High Power (Above 300W)
- 2.3 LED Plant Grow Light Sales by Type
 - 2.3.1 Global LED Plant Grow Light Sales Market Share by Type (2020-2025)
 - 2.3.2 Global LED Plant Grow Light Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global LED Plant Grow Light Sale Price by Type (2020-2025)
- 2.4 LED Plant Grow Light Segment by Application
 - 2.4.1 Commercial Greenhouses
 - 2.4.2 Indoor Grow Facilities
 - 2.4.3 Research Applications
- 2.5 LED Plant Grow Light Sales by Application
 - 2.5.1 Global LED Plant Grow Light Sale Market Share by Application (2020-2025)
 - 2.5.2 Global LED Plant Grow Light Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global LED Plant Grow Light Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

- 3.1 Global LED Plant Grow Light Breakdown Data by Company
 - 3.1.1 Global LED Plant Grow Light Annual Sales by Company (2020-2025)
 - 3.1.2 Global LED Plant Grow Light Sales Market Share by Company (2020-2025)
- 3.2 Global LED Plant Grow Light Annual Revenue by Company (2020-2025)
 - 3.2.1 Global LED Plant Grow Light Revenue by Company (2020-2025)
 - 3.2.2 Global LED Plant Grow Light Revenue Market Share by Company (2020-2025)
- 3.3 Global LED Plant Grow Light Sale Price by Company
- 3.4 Key Manufacturers LED Plant Grow Light Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers LED Plant Grow Light Product Location Distribution
 - 3.4.2 Players LED Plant Grow Light Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LED PLANT GROW LIGHT BY GEOGRAPHIC REGION

- 4.1 World Historic LED Plant Grow Light Market Size by Geographic Region (2020-2025)
 - 4.1.1 Global LED Plant Grow Light Annual Sales by Geographic Region (2020-2025)
 - 4.1.2 Global LED Plant Grow Light Annual Revenue by Geographic Region (2020-2025)
- 4.2 World Historic LED Plant Grow Light Market Size by Country/Region (2020-2025)
 - 4.2.1 Global LED Plant Grow Light Annual Sales by Country/Region (2020-2025)
 - 4.2.2 Global LED Plant Grow Light Annual Revenue by Country/Region (2020-2025)
- 4.3 Americas LED Plant Grow Light Sales Growth
- 4.4 APAC LED Plant Grow Light Sales Growth
- 4.5 Europe LED Plant Grow Light Sales Growth
- 4.6 Middle East & Africa LED Plant Grow Light Sales Growth

5 AMERICAS

- 5.1 Americas LED Plant Grow Light Sales by Country
 - 5.1.1 Americas LED Plant Grow Light Sales by Country (2020-2025)
 - 5.1.2 Americas LED Plant Grow Light Revenue by Country (2020-2025)

- 5.2 Americas LED Plant Grow Light Sales by Type (2020-2025)
- 5.3 Americas LED Plant Grow Light Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC LED Plant Grow Light Sales by Region
 - 6.1.1 APAC LED Plant Grow Light Sales by Region (2020-2025)
 - 6.1.2 APAC LED Plant Grow Light Revenue by Region (2020-2025)
- 6.2 APAC LED Plant Grow Light Sales by Type (2020-2025)
- 6.3 APAC LED Plant Grow Light Sales by Application (2020-2025)
- 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 LED Plant Grow Light by Country
 - 7.1.1 Europe LED Plant Grow Light Sales by Country (2020-2025)
 - 7.1.2 Europe LED Plant Grow Light Revenue by Country (2020-2025)
- 7.2 Europe LED Plant Grow Light Sales by Type (2020-2025)
- 7.3 Europe LED Plant Grow Light Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa LED Plant Grow Light by Country
 - 8.1.1 Middle East & Africa LED Plant Grow Light Sales by Country (2020-2025)

- 8.1.2 Middle East & Africa LED Plant Grow Light Revenue by Country (2020-2025)
- 8.2 Middle East & Africa LED Plant Grow Light Sales by Type (2020-2025)
- 8.3 Middle East & Africa LED Plant Grow Light Sales by Application (2020-2025)
- 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 LED Plant Grow Light
- 10.3 Manufacturing Process Analysis of LED Plant Grow Light
- 10.4 Industry Chain Structure of LED Plant Grow Light

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 LED Plant Grow Light Distributors
- 11.3 LED Plant Grow Light Customer

12 WORLD FORECAST REVIEW FOR LED PLANT GROW LIGHT BY GEOGRAPHIC REGION

- 12.1 Global LED Plant Grow Light Market Size Forecast by Region
 - 12.1.1 Global LED Plant Grow Light Forecast by Region (2026-2031)
 - 12.1.2 Global LED Plant Grow Light Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global LED Plant Grow Light Forecast by Type (2026-2031)

12.7 Global LED Plant Grow Light Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Signify

13.1.1 Signify Company Information

13.1.2 Signify LED Plant Grow Light Product Portfolios and Specifications

13.1.3 Signify LED Plant Grow Light Sales, Revenue, Price and Gross Margin
(2020-2025)

13.1.4 Signify Main Business Overview

13.1.5 Signify Latest Developments

13.2 GE Lighting

13.2.1 GE Lighting Company Information

13.2.2 GE Lighting LED Plant Grow Light Product Portfolios and Specifications

13.2.3 GE Lighting LED Plant Grow Light Sales, Revenue, Price and Gross Margin
(2020-2025)

13.2.4 GE Lighting Main Business Overview

13.2.5 GE Lighting Latest Developments

13.3 ams OSRAM

13.3.1 ams OSRAM Company Information

13.3.2 ams OSRAM LED Plant Grow Light Product Portfolios and Specifications

13.3.3 ams OSRAM LED Plant Grow Light Sales, Revenue, Price and Gross Margin
(2020-2025)

13.3.4 ams OSRAM Main Business Overview

13.3.5 ams OSRAM Latest Developments

13.4 Cree LED

13.4.1 Cree LED Company Information

13.4.2 Cree LED LED Plant Grow Light Product Portfolios and Specifications

13.4.3 Cree LED LED Plant Grow Light Sales, Revenue, Price and Gross Margin
(2020-2025)

13.4.4 Cree LED Main Business Overview

13.4.5 Cree LED Latest Developments

13.5 Gavita

13.5.1 Gavita Company Information

13.5.2 Gavita LED Plant Grow Light Product Portfolios and Specifications

13.5.3 Gavita LED Plant Grow Light Sales, Revenue, Price and Gross Margin
(2020-2025)

- 13.5.4 Gavita Main Business Overview
- 13.5.5 Gavita Latest Developments
- 13.6 Everlight Electronics
 - 13.6.1 Everlight Electronics Company Information
 - 13.6.2 Everlight Electronics LED Plant Grow Light Product Portfolios and Specifications
 - 13.6.3 Everlight Electronics LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Everlight Electronics Main Business Overview
 - 13.6.5 Everlight Electronics Latest Developments
- 13.7 Lumileds
 - 13.7.1 Lumileds Company Information
 - 13.7.2 Lumileds LED Plant Grow Light Product Portfolios and Specifications
 - 13.7.3 Lumileds LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Lumileds Main Business Overview
 - 13.7.5 Lumileds Latest Developments
- 13.8 Kessil
 - 13.8.1 Kessil Company Information
 - 13.8.2 Kessil LED Plant Grow Light Product Portfolios and Specifications
 - 13.8.3 Kessil LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Kessil Main Business Overview
 - 13.8.5 Kessil Latest Developments
- 13.9 Valoya
 - 13.9.1 Valoya Company Information
 - 13.9.2 Valoya LED Plant Grow Light Product Portfolios and Specifications
 - 13.9.3 Valoya LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Valoya Main Business Overview
 - 13.9.5 Valoya Latest Developments
- 13.10 Heliospectra AB
 - 13.10.1 Heliospectra AB Company Information
 - 13.10.2 Heliospectra AB LED Plant Grow Light Product Portfolios and Specifications
 - 13.10.3 Heliospectra AB LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Heliospectra AB Main Business Overview
 - 13.10.5 Heliospectra AB Latest Developments
- 13.11 Senmatic

- 13.11.1 Senmatic Company Information
- 13.11.2 Senmatic LED Plant Grow Light Product Portfolios and Specifications
- 13.11.3 Senmatic LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.11.4 Senmatic Main Business Overview
- 13.11.5 Senmatic Latest Developments
- 13.12 AIS LED Light
 - 13.12.1 AIS LED Light Company Information
 - 13.12.2 AIS LED Light LED Plant Grow Light Product Portfolios and Specifications
 - 13.12.3 AIS LED Light LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 AIS LED Light Main Business Overview
 - 13.12.5 AIS LED Light Latest Developments
- 13.13 Yaham Lighting
 - 13.13.1 Yaham Lighting Company Information
 - 13.13.2 Yaham Lighting LED Plant Grow Light Product Portfolios and Specifications
 - 13.13.3 Yaham Lighting LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.13.4 Yaham Lighting Main Business Overview
 - 13.13.5 Yaham Lighting Latest Developments
- 13.14 Longood
 - 13.14.1 Longood Company Information
 - 13.14.2 Longood LED Plant Grow Light Product Portfolios and Specifications
 - 13.14.3 Longood LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.14.4 Longood Main Business Overview
 - 13.14.5 Longood Latest Developments
- 13.15 Growray
 - 13.15.1 Growray Company Information
 - 13.15.2 Growray LED Plant Grow Light Product Portfolios and Specifications
 - 13.15.3 Growray LED Plant Grow Light Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.15.4 Growray Main Business Overview
 - 13.15.5 Growray Latest Developments
- 13.16 California Lightworks
 - 13.16.1 California Lightworks Company Information
 - 13.16.2 California Lightworks LED Plant Grow Light Product Portfolios and Specifications
 - 13.16.3 California Lightworks LED Plant Grow Light Sales, Revenue, Price and Gross

Margin (2020-2025)

13.16.4 California Lightworks Main Business Overview

13.16.5 California Lightworks Latest Developments

13.17 SANANBIO

13.17.1 SANANBIO Company Information

13.17.2 SANANBIO LED Plant Grow Light Product Portfolios and Specifications

13.17.3 SANANBIO LED Plant Grow Light Sales, Revenue, Price and Gross Margin

(2020-2025)

13.17.4 SANANBIO Main Business Overview

13.17.5 SANANBIO Latest Developments

13.18 Up-shine Lighting

13.18.1 Up-shine Lighting Company Information

13.18.2 Up-shine Lighting LED Plant Grow Light Product Portfolios and Specifications

13.18.3 Up-shine Lighting LED Plant Grow Light Sales, Revenue, Price and Gross

Margin (2020-2025)

13.18.4 Up-shine Lighting Main Business Overview

13.18.5 Up-shine Lighting Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. LED Plant Grow Light Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. LED Plant Grow Light Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Low Power (Below 300W)

Table 4. Major Players of High Power (Above 300W)

Table 5. Global LED Plant Grow Light Sales by Type (2020-2025) & (K Units)

Table 6. Global LED Plant Grow Light Sales Market Share by Type (2020-2025)

Table 7. Global LED Plant Grow Light Revenue by Type (2020-2025) & (\$ million)

Table 8. Global LED Plant Grow Light Revenue Market Share by Type (2020-2025)

Table 9. Global LED Plant Grow Light Sale Price by Type (2020-2025) & (USD/Unit)

Table 10. Global LED Plant Grow Light Sale by Application (2020-2025) & (K Units)

Table 11. Global LED Plant Grow Light Sale Market Share by Application (2020-2025)

Table 12. Global LED Plant Grow Light Revenue by Application (2020-2025) & (\$ million)

Table 13. Global LED Plant Grow Light Revenue Market Share by Application (2020-2025)

Table 14. Global LED Plant Grow Light Sale Price by Application (2020-2025) & (USD/Unit)

Table 15. Global LED Plant Grow Light Sales by Company (2020-2025) & (K Units)

Table 16. Global LED Plant Grow Light Sales Market Share by Company (2020-2025)

Table 17. Global LED Plant Grow Light Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global LED Plant Grow Light Revenue Market Share by Company (2020-2025)

Table 19. Global LED Plant Grow Light Sale Price by Company (2020-2025) & (USD/Unit)

Table 20. Key Manufacturers LED Plant Grow Light Producing Area Distribution and Sales Area

Table 21. Players LED Plant Grow Light Products Offered

Table 22. LED Plant Grow Light Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global LED Plant Grow Light Sales by Geographic Region (2020-2025) & (K

Units)

Table 26. Global LED Plant Grow Light Sales Market Share Geographic Region (2020-2025)

Table 27. Global LED Plant Grow Light Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global LED Plant Grow Light Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global LED Plant Grow Light Sales by Country/Region (2020-2025) & (K Units)

Table 30. Global LED Plant Grow Light Sales Market Share by Country/Region (2020-2025)

Table 31. Global LED Plant Grow Light Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global LED Plant Grow Light Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas LED Plant Grow Light Sales by Country (2020-2025) & (K Units)

Table 34. Americas LED Plant Grow Light Sales Market Share by Country (2020-2025)

Table 35. Americas LED Plant Grow Light Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas LED Plant Grow Light Sales by Type (2020-2025) & (K Units)

Table 37. Americas LED Plant Grow Light Sales by Application (2020-2025) & (K Units)

Table 38. APAC LED Plant Grow Light Sales by Region (2020-2025) & (K Units)

Table 39. APAC LED Plant Grow Light Sales Market Share by Region (2020-2025)

Table 40. APAC LED Plant Grow Light Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC LED Plant Grow Light Sales by Type (2020-2025) & (K Units)

Table 42. APAC LED Plant Grow Light Sales by Application (2020-2025) & (K Units)

Table 43. Europe LED Plant Grow Light Sales by Country (2020-2025) & (K Units)

Table 44. Europe LED Plant Grow Light Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe LED Plant Grow Light Sales by Type (2020-2025) & (K Units)

Table 46. Europe LED Plant Grow Light Sales by Application (2020-2025) & (K Units)

Table 47. Middle East & Africa LED Plant Grow Light Sales by Country (2020-2025) & (K Units)

Table 48. Middle East & Africa LED Plant Grow Light Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa LED Plant Grow Light Sales by Type (2020-2025) & (K Units)

Table 50. Middle East & Africa LED Plant Grow Light Sales by Application (2020-2025) & (K Units)

Table 51. Key Market Drivers & Growth Opportunities of LED Plant Grow Light

Table 52. Key Market Challenges & Risks of LED Plant Grow Light
Table 53. Key Industry Trends of LED Plant Grow Light
Table 54. LED Plant Grow Light Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. LED Plant Grow Light Distributors List
Table 57. LED Plant Grow Light Customer List
Table 58. Global LED Plant Grow Light Sales Forecast by Region (2026-2031) & (K Units)
Table 59. Global LED Plant Grow Light Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 60. Americas LED Plant Grow Light Sales Forecast by Country (2026-2031) & (K Units)
Table 61. Americas LED Plant Grow Light Annual Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 62. APAC LED Plant Grow Light Sales Forecast by Region (2026-2031) & (K Units)
Table 63. APAC LED Plant Grow Light Annual Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 64. Europe LED Plant Grow Light Sales Forecast by Country (2026-2031) & (K Units)
Table 65. Europe LED Plant Grow Light Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 66. Middle East & Africa LED Plant Grow Light Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Middle East & Africa LED Plant Grow Light Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 68. Global LED Plant Grow Light Sales Forecast by Type (2026-2031) & (K Units)
Table 69. Global LED Plant Grow Light Revenue Forecast by Type (2026-2031) & (\$ millions)
Table 70. Global LED Plant Grow Light Sales Forecast by Application (2026-2031) & (K Units)
Table 71. Global LED Plant Grow Light Revenue Forecast by Application (2026-2031) & (\$ millions)
Table 72. Signify Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 73. Signify LED Plant Grow Light Product Portfolios and Specifications
Table 74. Signify LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 75. Signify Main Business

Table 76. Signify Latest Developments

Table 77. GE Lighting Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors

Table 78. GE Lighting LED Plant Grow Light Product Portfolios and Specifications

Table 79. GE Lighting LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 80. GE Lighting Main Business

Table 81. GE Lighting Latest Developments

Table 82. ams OSRAM Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors

Table 83. ams OSRAM LED Plant Grow Light Product Portfolios and Specifications

Table 84. ams OSRAM LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 85. ams OSRAM Main Business

Table 86. ams OSRAM Latest Developments

Table 87. Cree LED Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors

Table 88. Cree LED LED Plant Grow Light Product Portfolios and Specifications

Table 89. Cree LED LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 90. Cree LED Main Business

Table 91. Cree LED Latest Developments

Table 92. Gavita Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors

Table 93. Gavita LED Plant Grow Light Product Portfolios and Specifications

Table 94. Gavita LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 95. Gavita Main Business

Table 96. Gavita Latest Developments

Table 97. Everlight Electronics Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors

Table 98. Everlight Electronics LED Plant Grow Light Product Portfolios and Specifications

Table 99. Everlight Electronics LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 100. Everlight Electronics Main Business

Table 101. Everlight Electronics Latest Developments

Table 102. Lumileds Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors

Table 103. Lumileds LED Plant Grow Light Product Portfolios and Specifications
Table 104. Lumileds LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 105. Lumileds Main Business
Table 106. Lumileds Latest Developments
Table 107. Kessil Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 108. Kessil LED Plant Grow Light Product Portfolios and Specifications
Table 109. Kessil LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 110. Kessil Main Business
Table 111. Kessil Latest Developments
Table 112. Valoya Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 113. Valoya LED Plant Grow Light Product Portfolios and Specifications
Table 114. Valoya LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 115. Valoya Main Business
Table 116. Valoya Latest Developments
Table 117. Heliospectra AB Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 118. Heliospectra AB LED Plant Grow Light Product Portfolios and Specifications
Table 119. Heliospectra AB LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 120. Heliospectra AB Main Business
Table 121. Heliospectra AB Latest Developments
Table 122. Senmatic Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 123. Senmatic LED Plant Grow Light Product Portfolios and Specifications
Table 124. Senmatic LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 125. Senmatic Main Business
Table 126. Senmatic Latest Developments
Table 127. AIS LED Light Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 128. AIS LED Light LED Plant Grow Light Product Portfolios and Specifications
Table 129. AIS LED Light LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 130. AIS LED Light Main Business

Table 131. AIS LED Light Latest Developments
Table 132. Yaham Lighting Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 133. Yaham Lighting LED Plant Grow Light Product Portfolios and Specifications
Table 134. Yaham Lighting LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 135. Yaham Lighting Main Business
Table 136. Yaham Lighting Latest Developments
Table 137. Longood Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 138. Longood LED Plant Grow Light Product Portfolios and Specifications
Table 139. Longood LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 140. Longood Main Business
Table 141. Longood Latest Developments
Table 142. Growray Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 143. Growray LED Plant Grow Light Product Portfolios and Specifications
Table 144. Growray LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 145. Growray Main Business
Table 146. Growray Latest Developments
Table 147. California Lightworks Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 148. California Lightworks LED Plant Grow Light Product Portfolios and Specifications
Table 149. California Lightworks LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 150. California Lightworks Main Business
Table 151. California Lightworks Latest Developments
Table 152. SANANBIO Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors
Table 153. SANANBIO LED Plant Grow Light Product Portfolios and Specifications
Table 154. SANANBIO LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 155. SANANBIO Main Business
Table 156. SANANBIO Latest Developments
Table 157. Up-shine Lighting Basic Information, LED Plant Grow Light Manufacturing Base, Sales Area and Its Competitors

Table 158. Up-shine Lighting LED Plant Grow Light Product Portfolios and Specifications

Table 159. Up-shine Lighting LED Plant Grow Light Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 160. Up-shine Lighting Main Business

Table 161. Up-shine Lighting Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of LED Plant Grow Light
- Figure 2. LED Plant Grow Light Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global LED Plant Grow Light Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global LED Plant Grow Light Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. LED Plant Grow Light Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. LED Plant Grow Light Sales Market Share by Country/Region (2024)
- Figure 10. LED Plant Grow Light Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Low Power (Below 300W)
- Figure 12. Product Picture of High Power (Above 300W)
- Figure 13. Global LED Plant Grow Light Sales Market Share by Type in 2025
- Figure 14. Global LED Plant Grow Light Revenue Market Share by Type (2020-2025)
- Figure 15. LED Plant Grow Light Consumed in Commercial Greenhouses
- Figure 16. Global LED Plant Grow Light Market: Commercial Greenhouses (2020-2025) & (K Units)
- Figure 17. LED Plant Grow Light Consumed in Indoor Grow Facilities
- Figure 18. Global LED Plant Grow Light Market: Indoor Grow Facilities (2020-2025) & (K Units)
- Figure 19. LED Plant Grow Light Consumed in Research Applications
- Figure 20. Global LED Plant Grow Light Market: Research Applications (2020-2025) & (K Units)
- Figure 21. Global LED Plant Grow Light Sale Market Share by Application (2024)
- Figure 22. Global LED Plant Grow Light Revenue Market Share by Application in 2025
- Figure 23. LED Plant Grow Light Sales by Company in 2025 (K Units)
- Figure 24. Global LED Plant Grow Light Sales Market Share by Company in 2025
- Figure 25. LED Plant Grow Light Revenue by Company in 2025 (\$ millions)
- Figure 26. Global LED Plant Grow Light Revenue Market Share by Company in 2025
- Figure 27. Global LED Plant Grow Light Sales Market Share by Geographic Region (2020-2025)
- Figure 28. Global LED Plant Grow Light Revenue Market Share by Geographic Region in 2025

- Figure 29. Americas LED Plant Grow Light Sales 2020-2025 (K Units)
- Figure 30. Americas LED Plant Grow Light Revenue 2020-2025 (\$ millions)
- Figure 31. APAC LED Plant Grow Light Sales 2020-2025 (K Units)
- Figure 32. APAC LED Plant Grow Light Revenue 2020-2025 (\$ millions)
- Figure 33. Europe LED Plant Grow Light Sales 2020-2025 (K Units)
- Figure 34. Europe LED Plant Grow Light Revenue 2020-2025 (\$ millions)
- Figure 35. Middle East & Africa LED Plant Grow Light Sales 2020-2025 (K Units)
- Figure 36. Middle East & Africa LED Plant Grow Light Revenue 2020-2025 (\$ millions)
- Figure 37. Americas LED Plant Grow Light Sales Market Share by Country in 2025
- Figure 38. Americas LED Plant Grow Light Revenue Market Share by Country (2020-2025)
- Figure 39. Americas LED Plant Grow Light Sales Market Share by Type (2020-2025)
- Figure 40. Americas LED Plant Grow Light Sales Market Share by Application (2020-2025)
- Figure 41. United States LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 42. Canada LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 43. Mexico LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 44. Brazil LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 45. APAC LED Plant Grow Light Sales Market Share by Region in 2025
- Figure 46. APAC LED Plant Grow Light Revenue Market Share by Region (2020-2025)
- Figure 47. APAC LED Plant Grow Light Sales Market Share by Type (2020-2025)
- Figure 48. APAC LED Plant Grow Light Sales Market Share by Application (2020-2025)
- Figure 49. China LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 50. Japan LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 51. South Korea LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 52. Southeast Asia LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 53. India LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 54. Australia LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 55. China Taiwan LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 56. Europe LED Plant Grow Light Sales Market Share by Country in 2025
- Figure 57. Europe LED Plant Grow Light Revenue Market Share by Country (2020-2025)
- Figure 58. Europe LED Plant Grow Light Sales Market Share by Type (2020-2025)
- Figure 59. Europe LED Plant Grow Light Sales Market Share by Application (2020-2025)
- Figure 60. Germany LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 61. France LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)
- Figure 62. UK LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 63. Italy LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 64. Russia LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 65. Middle East & Africa LED Plant Grow Light Sales Market Share by Country (2020-2025)

Figure 66. Middle East & Africa LED Plant Grow Light Sales Market Share by Type (2020-2025)

Figure 67. Middle East & Africa LED Plant Grow Light Sales Market Share by Application (2020-2025)

Figure 68. Egypt LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 69. South Africa LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 70. Israel LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 71. Turkey LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 72. GCC Countries LED Plant Grow Light Revenue Growth 2020-2025 (\$ millions)

Figure 73. Manufacturing Cost Structure Analysis of LED Plant Grow Light in 2025

Figure 74. Manufacturing Process Analysis of LED Plant Grow Light

Figure 75. Industry Chain Structure of LED Plant Grow Light

Figure 76. Channels of Distribution

Figure 77. Global LED Plant Grow Light Sales Market Forecast by Region (2026-2031)

Figure 78. Global LED Plant Grow Light Revenue Market Share Forecast by Region (2026-2031)

Figure 79. Global LED Plant Grow Light Sales Market Share Forecast by Type (2026-2031)

Figure 80. Global LED Plant Grow Light Revenue Market Share Forecast by Type (2026-2031)

Figure 81. Global LED Plant Grow Light Sales Market Share Forecast by Application (2026-2031)

Figure 82. Global LED Plant Grow Light Revenue Market Share Forecast by Application (2026-2031)

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