

Global Agricultural LED Plant Lights Market Research Report 2026(Status and Outlook)

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Abstracts

Agricultural Plant Growth LED Light is an artificial light source that uses LED (Light Emitting Diode) as the illuminant to meet the lighting conditions required for plant photosynthesis. In the absence of daylight, this light fixture can act as daylight, allowing plants to grow normally or better. North America is the largest consumption place, with a revenue market share nearly 36% in 2023. Market competition is intense. Signify, ams OSRAM, GE Lighting, Gavita, Lumileds, Everlight Electronics, SANANBIO, etc. are the leaders of the industry, with high-end customers. The top five manufacturers held 33% of the market, in terms of agricultural LED plant lights for Plants revenue in 2023. Market development trend Technology upgrade: With the continuous deepening of optical and botanical research, the spectrum design and light control strategy of agricultural LED plant 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, agricultural LED plant lights will also be applied to more agricultural planting scenarios, such as medicinal plant cultivation, algae cultivation, etc. This will further expand the market application space of agricultural LED plant lights. Intelligent development: With the improvement of the Internet of Things and intelligent control technology, agricultural LED plant 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.

The global Agricultural LED Plant Lights market size was estimated at USD 1955.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 14.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Agricultural LED

Plant Lights market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Agricultural LED Plant Lights market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Agricultural LED Plant Lights market.

Global Agricultural LED Plant Lights Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

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

Market Segmentation (by Type)

Partial Spectrum Light
Full Spectrum Light

Market Segmentation (by Application)

Greenhouse
Vertical Farming
Others Indoor Growing Facilities

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Agricultural LED Plant Lights Market
Overview of the regional outlook of the Agricultural LED Plant Lights Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Agricultural LED Plant Lights Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Agricultural LED Plant Lights, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players,

along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Agricultural LED Plant Lights

1.2 Key Market Segments

1.2.1 Agricultural LED Plant Lights Segment by Type

1.2.2 Agricultural LED Plant Lights Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 AGRICULTURAL LED PLANT LIGHTS MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Agricultural LED Plant Lights Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Agricultural LED Plant Lights Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 AGRICULTURAL LED PLANT LIGHTS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Agricultural LED Plant Lights Product Life Cycle

3.3 Global Agricultural LED Plant Lights Sales by Manufacturers (2020-2025)

3.4 Global Agricultural LED Plant Lights Revenue Market Share by Manufacturers (2020-2025)

3.5 Agricultural LED Plant Lights Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Agricultural LED Plant Lights Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Agricultural LED Plant Lights Market Competitive Situation and Trends

3.8.1 Agricultural LED Plant Lights Market Concentration Rate

3.8.2 Global 5 and 10 Largest Agricultural LED Plant Lights Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 AGRICULTURAL LED PLANT LIGHTS INDUSTRY CHAIN ANALYSIS

4.1 Agricultural LED Plant Lights Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AGRICULTURAL LED PLANT LIGHTS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Agricultural LED Plant Lights Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Agricultural LED Plant Lights Market

5.7 ESG Ratings of Leading Companies

6 AGRICULTURAL LED PLANT LIGHTS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Agricultural LED Plant Lights Sales Market Share by Type (2020-2025)

6.3 Global Agricultural LED Plant Lights Market Size by Type (2020-2025)

6.4 Global Agricultural LED Plant Lights Price by Type (2020-2025)

7 AGRICULTURAL LED PLANT LIGHTS MARKET SEGMENTATION BY

APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Agricultural LED Plant Lights Market Sales by Application (2020-2025)
- 7.3 Global Agricultural LED Plant Lights Market Size (M USD) by Application (2020-2025)
- 7.4 Global Agricultural LED Plant Lights Sales Growth Rate by Application (2020-2025)

8 AGRICULTURAL LED PLANT LIGHTS MARKET SALES BY REGION

- 8.1 Global Agricultural LED Plant Lights Sales by Region
 - 8.1.1 Global Agricultural LED Plant Lights Sales by Region
 - 8.1.2 Global Agricultural LED Plant Lights Sales Market Share by Region
- 8.2 Global Agricultural LED Plant Lights Market Size by Region
 - 8.2.1 Global Agricultural LED Plant Lights Market Size by Region
 - 8.2.2 Global Agricultural LED Plant Lights Market Size by Region
- 8.3 North America
 - 8.3.1 North America Agricultural LED Plant Lights Sales by Country
 - 8.3.2 North America Agricultural LED Plant Lights Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Agricultural LED Plant Lights Sales by Country
 - 8.4.2 Europe Agricultural LED Plant Lights Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Agricultural LED Plant Lights Sales by Region
 - 8.5.2 Asia Pacific Agricultural LED Plant Lights Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America

- 8.6.1 South America Agricultural LED Plant Lights Sales by Country
- 8.6.2 South America Agricultural LED Plant Lights Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Agricultural LED Plant Lights Sales by Region
 - 8.7.2 Middle East and Africa Agricultural LED Plant Lights Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 AGRICULTURAL LED PLANT LIGHTS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Agricultural LED Plant Lights by Region(2020-2025)
- 9.2 Global Agricultural LED Plant Lights Revenue Market Share by Region (2020-2025)
- 9.3 Global Agricultural LED Plant Lights Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Agricultural LED Plant Lights Production
 - 9.4.1 North America Agricultural LED Plant Lights Production Growth Rate (2020-2025)
 - 9.4.2 North America Agricultural LED Plant Lights Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Agricultural LED Plant Lights Production
 - 9.5.1 Europe Agricultural LED Plant Lights Production Growth Rate (2020-2025)
 - 9.5.2 Europe Agricultural LED Plant Lights Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Agricultural LED Plant Lights Production (2020-2025)
 - 9.6.1 Japan Agricultural LED Plant Lights Production Growth Rate (2020-2025)
 - 9.6.2 Japan Agricultural LED Plant Lights Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Agricultural LED Plant Lights Production (2020-2025)
 - 9.7.1 China Agricultural LED Plant Lights Production Growth Rate (2020-2025)
 - 9.7.2 China Agricultural LED Plant Lights Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Signify

- 10.1.1 Signify Basic Information
- 10.1.2 Signify Agricultural LED Plant Lights Product Overview
- 10.1.3 Signify Agricultural LED Plant Lights Product Market Performance
- 10.1.4 Signify Business Overview
- 10.1.5 Signify SWOT Analysis
- 10.1.6 Signify Recent Developments

10.2 GE Lighting

- 10.2.1 GE Lighting Basic Information
- 10.2.2 GE Lighting Agricultural LED Plant Lights Product Overview
- 10.2.3 GE Lighting Agricultural LED Plant Lights Product Market Performance
- 10.2.4 GE Lighting Business Overview
- 10.2.5 GE Lighting SWOT Analysis
- 10.2.6 GE Lighting Recent Developments

10.3 ams OSRAM

- 10.3.1 ams OSRAM Basic Information
- 10.3.2 ams OSRAM Agricultural LED Plant Lights Product Overview
- 10.3.3 ams OSRAM Agricultural LED Plant Lights Product Market Performance
- 10.3.4 ams OSRAM Business Overview
- 10.3.5 ams OSRAM SWOT Analysis
- 10.3.6 ams OSRAM Recent Developments

10.4 Cree LED

- 10.4.1 Cree LED Basic Information
- 10.4.2 Cree LED Agricultural LED Plant Lights Product Overview
- 10.4.3 Cree LED Agricultural LED Plant Lights Product Market Performance
- 10.4.4 Cree LED Business Overview
- 10.4.5 Cree LED Recent Developments

10.5 Gavita

- 10.5.1 Gavita Basic Information
- 10.5.2 Gavita Agricultural LED Plant Lights Product Overview
- 10.5.3 Gavita Agricultural LED Plant Lights Product Market Performance
- 10.5.4 Gavita Business Overview
- 10.5.5 Gavita Recent Developments

10.6 Everlight Electronics

- 10.6.1 Everlight Electronics Basic Information
- 10.6.2 Everlight Electronics Agricultural LED Plant Lights Product Overview
- 10.6.3 Everlight Electronics Agricultural LED Plant Lights Product Market Performance
- 10.6.4 Everlight Electronics Business Overview

- 10.6.5 Everlight Electronics Recent Developments
- 10.7 Lumileds
 - 10.7.1 Lumileds Basic Information
 - 10.7.2 Lumileds Agricultural LED Plant Lights Product Overview
 - 10.7.3 Lumileds Agricultural LED Plant Lights Product Market Performance
 - 10.7.4 Lumileds Business Overview
 - 10.7.5 Lumileds Recent Developments
- 10.8 Kessil
 - 10.8.1 Kessil Basic Information
 - 10.8.2 Kessil Agricultural LED Plant Lights Product Overview
 - 10.8.3 Kessil Agricultural LED Plant Lights Product Market Performance
 - 10.8.4 Kessil Business Overview
 - 10.8.5 Kessil Recent Developments
- 10.9 Valoya
 - 10.9.1 Valoya Basic Information
 - 10.9.2 Valoya Agricultural LED Plant Lights Product Overview
 - 10.9.3 Valoya Agricultural LED Plant Lights Product Market Performance
 - 10.9.4 Valoya Business Overview
 - 10.9.5 Valoya Recent Developments
- 10.10 Heliospectra AB
 - 10.10.1 Heliospectra AB Basic Information
 - 10.10.2 Heliospectra AB Agricultural LED Plant Lights Product Overview
 - 10.10.3 Heliospectra AB Agricultural LED Plant Lights Product Market Performance
 - 10.10.4 Heliospectra AB Business Overview
 - 10.10.5 Heliospectra AB Recent Developments
- 10.11 Senmatic
 - 10.11.1 Senmatic Basic Information
 - 10.11.2 Senmatic Agricultural LED Plant Lights Product Overview
 - 10.11.3 Senmatic Agricultural LED Plant Lights Product Market Performance
 - 10.11.4 Senmatic Business Overview
 - 10.11.5 Senmatic Recent Developments
- 10.12 AIS LED Light
 - 10.12.1 AIS LED Light Basic Information
 - 10.12.2 AIS LED Light Agricultural LED Plant Lights Product Overview
 - 10.12.3 AIS LED Light Agricultural LED Plant Lights Product Market Performance
 - 10.12.4 AIS LED Light Business Overview
 - 10.12.5 AIS LED Light Recent Developments
- 10.13 Yaham Lighting
 - 10.13.1 Yaham Lighting Basic Information

- 10.13.2 Yaham Lighting Agricultural LED Plant Lights Product Overview
- 10.13.3 Yaham Lighting Agricultural LED Plant Lights Product Market Performance
- 10.13.4 Yaham Lighting Business Overview
- 10.13.5 Yaham Lighting Recent Developments
- 10.14 Longood
 - 10.14.1 Longood Basic Information
 - 10.14.2 Longood Agricultural LED Plant Lights Product Overview
 - 10.14.3 Longood Agricultural LED Plant Lights Product Market Performance
 - 10.14.4 Longood Business Overview
 - 10.14.5 Longood Recent Developments
- 10.15 Growray
 - 10.15.1 Growray Basic Information
 - 10.15.2 Growray Agricultural LED Plant Lights Product Overview
 - 10.15.3 Growray Agricultural LED Plant Lights Product Market Performance
 - 10.15.4 Growray Business Overview
 - 10.15.5 Growray Recent Developments
- 10.16 California Lightworks
 - 10.16.1 California Lightworks Basic Information
 - 10.16.2 California Lightworks Agricultural LED Plant Lights Product Overview
 - 10.16.3 California Lightworks Agricultural LED Plant Lights Product Market Performance
 - 10.16.4 California Lightworks Business Overview
 - 10.16.5 California Lightworks Recent Developments
- 10.17 SANANBIO
 - 10.17.1 SANANBIO Basic Information
 - 10.17.2 SANANBIO Agricultural LED Plant Lights Product Overview
 - 10.17.3 SANANBIO Agricultural LED Plant Lights Product Market Performance
 - 10.17.4 SANANBIO Business Overview
 - 10.17.5 SANANBIO Recent Developments
- 10.18 Up-shine Lighting
 - 10.18.1 Up-shine Lighting Basic Information
 - 10.18.2 Up-shine Lighting Agricultural LED Plant Lights Product Overview
 - 10.18.3 Up-shine Lighting Agricultural LED Plant Lights Product Market Performance
 - 10.18.4 Up-shine Lighting Business Overview
 - 10.18.5 Up-shine Lighting Recent Developments

11 AGRICULTURAL LED PLANT LIGHTS MARKET FORECAST BY REGION

11.1 Global Agricultural LED Plant Lights Market Size Forecast

11.2 Global Agricultural LED Plant Lights Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Agricultural LED Plant Lights Market Size Forecast by Country

11.2.3 Asia Pacific Agricultural LED Plant Lights Market Size Forecast by Region

11.2.4 South America Agricultural LED Plant Lights Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Agricultural LED Plant Lights by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Agricultural LED Plant Lights Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Agricultural LED Plant Lights by Type (2026-2035)

12.1.2 Global Agricultural LED Plant Lights Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Agricultural LED Plant Lights by Type (2026-2035)

12.2 Global Agricultural LED Plant Lights Market Forecast by Application (2026-2035)

12.2.1 Global Agricultural LED Plant Lights Sales (K Units) Forecast by Application

12.2.2 Global Agricultural LED Plant Lights Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Agricultural LED Plant Lights Market Size by Type (M USD)

Table 4. Global Agricultural LED Plant Lights Market Size by Application

Table 5. Agricultural LED Plant Lights Market Size Comparison by Region (M USD)

Table 6. Global Agricultural LED Plant Lights Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global Agricultural LED Plant Lights Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Agricultural LED Plant Lights Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Agricultural LED Plant Lights Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in
Agricultural LED Plant Lights as of 2025)

Table 11. Global Market Agricultural LED Plant Lights Average Price (USD/Unit) of Key
Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Agricultural LED Plant Lights Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Agricultural LED Plant Lights Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 26. Global Agricultural LED Plant Lights Sales by Type (K Units)

Table 27. Global Agricultural LED Plant Lights Market Size by Type (M USD)

Table 28. Global Agricultural LED Plant Lights Sales (K Units) by Type (2020-2025)
Table 29. Global Agricultural LED Plant Lights Sales Market Share by Type (2020-2025)
Table 30. Global Agricultural LED Plant Lights Market Size (M USD) by Type (2020-2025)
Table 31. Global Agricultural LED Plant Lights Market Share by Type (2020-2025)
Table 32. Global Agricultural LED Plant Lights Price (USD/Unit) by Type (2020-2025)
Table 33. Global Agricultural LED Plant Lights Sales (K Units) by Application
Table 34. Global Agricultural LED Plant Lights Market Size by Application
Table 35. Global Agricultural LED Plant Lights Sales by Application (2020-2025) & (K Units)
Table 36. Global Agricultural LED Plant Lights Sales Market Share by Application (2020-2025)
Table 37. Global Agricultural LED Plant Lights Market Size by Application (2020-2025) & (M USD)
Table 38. Global Agricultural LED Plant Lights Market Share by Application (2020-2025)
Table 39. Global Agricultural LED Plant Lights Sales Growth Rate by Application (2020-2025)
Table 40. Global Agricultural LED Plant Lights Sales by Region (2020-2025) & (K Units)
Table 41. Global Agricultural LED Plant Lights Sales Market Share by Region (2020-2025)
Table 42. Global Agricultural LED Plant Lights Market Size by Region (2020-2025) & (M USD)
Table 43. Global Agricultural LED Plant Lights Market Size by Region (2020-2025)
Table 44. North America Agricultural LED Plant Lights Sales by Country (2020-2025) & (K Units)
Table 45. North America Agricultural LED Plant Lights Market Size by Country (2020-2025) & (M USD)
Table 46. Europe Agricultural LED Plant Lights Sales by Country (2020-2025) & (K Units)
Table 47. Europe Agricultural LED Plant Lights Market Size by Country (2020-2025) & (M USD)
Table 48. Asia Pacific Agricultural LED Plant Lights Sales by Region (2020-2025) & (K Units)
Table 49. Asia Pacific Agricultural LED Plant Lights Market Size by Region (2020-2025) & (M USD)
Table 50. South America Agricultural LED Plant Lights Sales by Country (2020-2025) & (K Units)
Table 51. South America Agricultural LED Plant Lights Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Agricultural LED Plant Lights Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Agricultural LED Plant Lights Market Size by Region (2020-2025) & (M USD)

Table 54. Global Agricultural LED Plant Lights Production (K Units) by Region(2020-2025)

Table 55. Global Agricultural LED Plant Lights Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Agricultural LED Plant Lights Revenue Market Share by Region (2020-2025)

Table 57. Global Agricultural LED Plant Lights Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Agricultural LED Plant Lights Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Agricultural LED Plant Lights Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Agricultural LED Plant Lights Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Agricultural LED Plant Lights Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Signify Basic Information

Table 63. Signify Agricultural LED Plant Lights Product Overview

Table 64. Signify Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Signify Business Overview

Table 66. Signify SWOT Analysis

Table 67. Signify Recent Developments

Table 68. GE Lighting Basic Information

Table 69. GE Lighting Agricultural LED Plant Lights Product Overview

Table 70. GE Lighting Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. GE Lighting Business Overview

Table 72. GE Lighting SWOT Analysis

Table 73. GE Lighting Recent Developments

Table 74. ams OSRAM Basic Information

Table 75. ams OSRAM Agricultural LED Plant Lights Product Overview

Table 76. ams OSRAM Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. ams OSRAM Business Overview

Table 78. ams OSRAM SWOT Analysis
Table 79. ams OSRAM Recent Developments
Table 80. Cree LED Basic Information
Table 81. Cree LED Agricultural LED Plant Lights Product Overview
Table 82. Cree LED Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 83. Cree LED Business Overview
Table 84. Cree LED Recent Developments
Table 85. Gavita Basic Information
Table 86. Gavita Agricultural LED Plant Lights Product Overview
Table 87. Gavita Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 88. Gavita Business Overview
Table 89. Gavita Recent Developments
Table 90. Everlight Electronics Basic Information
Table 91. Everlight Electronics Agricultural LED Plant Lights Product Overview
Table 92. Everlight Electronics Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 93. Everlight Electronics Business Overview
Table 94. Everlight Electronics Recent Developments
Table 95. Lumileds Basic Information
Table 96. Lumileds Agricultural LED Plant Lights Product Overview
Table 97. Lumileds Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 98. Lumileds Business Overview
Table 99. Lumileds Recent Developments
Table 100. Kessil Basic Information
Table 101. Kessil Agricultural LED Plant Lights Product Overview
Table 102. Kessil Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 103. Kessil Business Overview
Table 104. Kessil Recent Developments
Table 105. Valoya Basic Information
Table 106. Valoya Agricultural LED Plant Lights Product Overview
Table 107. Valoya Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 108. Valoya Business Overview
Table 109. Valoya Recent Developments
Table 110. Heliospectra AB Basic Information

Table 111. Heliospectra AB Agricultural LED Plant Lights Product Overview
Table 112. Heliospectra AB Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 113. Heliospectra AB Business Overview
Table 114. Heliospectra AB Recent Developments
Table 115. Senmatic Basic Information
Table 116. Senmatic Agricultural LED Plant Lights Product Overview
Table 117. Senmatic Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118. Senmatic Business Overview
Table 119. Senmatic Recent Developments
Table 120. AIS LED Light Basic Information
Table 121. AIS LED Light Agricultural LED Plant Lights Product Overview
Table 122. AIS LED Light Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 123. AIS LED Light Business Overview
Table 124. AIS LED Light Recent Developments
Table 125. Yaham Lighting Basic Information
Table 126. Yaham Lighting Agricultural LED Plant Lights Product Overview
Table 127. Yaham Lighting Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 128. Yaham Lighting Business Overview
Table 129. Yaham Lighting Recent Developments
Table 130. Longood Basic Information
Table 131. Longood Agricultural LED Plant Lights Product Overview
Table 132. Longood Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 133. Longood Business Overview
Table 134. Longood Recent Developments
Table 135. Growray Basic Information
Table 136. Growray Agricultural LED Plant Lights Product Overview
Table 137. Growray Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 138. Growray Business Overview
Table 139. Growray Recent Developments
Table 140. California Lightworks Basic Information
Table 141. California Lightworks Agricultural LED Plant Lights Product Overview
Table 142. California Lightworks Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. California Lightworks Business Overview
Table 144. California Lightworks Recent Developments
Table 145. SANANBIO Basic Information
Table 146. SANANBIO Agricultural LED Plant Lights Product Overview
Table 147. SANANBIO Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 148. SANANBIO Business Overview
Table 149. SANANBIO Recent Developments
Table 150. Up-shine Lighting Basic Information
Table 151. Up-shine Lighting Agricultural LED Plant Lights Product Overview
Table 152. Up-shine Lighting Agricultural LED Plant Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 153. Up-shine Lighting Business Overview
Table 154. Up-shine Lighting Recent Developments
Table 155. Global Agricultural LED Plant Lights Sales Forecast by Region (2026-2035) & (K Units)
Table 156. Global Agricultural LED Plant Lights Market Size Forecast by Region (2026-2035) & (M USD)
Table 157. North America Agricultural LED Plant Lights Sales Forecast by Country (2026-2035) & (K Units)
Table 158. North America Agricultural LED Plant Lights Market Size Forecast by Country (2026-2035) & (M USD)
Table 159. Europe Agricultural LED Plant Lights Sales Forecast by Country (2026-2035) & (K Units)
Table 160. Europe Agricultural LED Plant Lights Market Size Forecast by Country (2026-2035) & (M USD)
Table 161. Asia Pacific Agricultural LED Plant Lights Sales Forecast by Region (2026-2035) & (K Units)
Table 162. Asia Pacific Agricultural LED Plant Lights Market Size Forecast by Region (2026-2035) & (M USD)
Table 163. South America Agricultural LED Plant Lights Sales Forecast by Country (2026-2035) & (K Units)
Table 164. South America Agricultural LED Plant Lights Market Size Forecast by Country (2026-2035) & (M USD)
Table 165. Middle East and Africa Agricultural LED Plant Lights Sales Forecast by Country (2026-2035) & (Units)
Table 166. Middle East and Africa Agricultural LED Plant Lights Market Size Forecast by Country (2026-2035) & (M USD)
Table 167. Global Agricultural LED Plant Lights Sales Forecast by Type (2026-2035) &

(K Units)

Table 168. Global Agricultural LED Plant Lights Market Size Forecast by Type
(2026-2035) & (M USD)

Table 169. Global Agricultural LED Plant Lights Price Forecast by Type (2026-2035) &
(USD/Unit)

Table 170. Global Agricultural LED Plant Lights Sales (K Units) Forecast by Application
(2026-2035)

Table 171. Global Agricultural LED Plant Lights Market Size Forecast by Application
(2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Agricultural LED Plant Lights
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Agricultural LED Plant Lights Market Size (M USD), 2025-2035
- Figure 5. Global Agricultural LED Plant Lights Market Size (M USD) (2020-2035)
- Figure 6. Global Agricultural LED Plant Lights Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Agricultural LED Plant Lights Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Agricultural LED Plant Lights Product Life Cycle
- Figure 13. Agricultural LED Plant Lights Sales Share by Manufacturers in 2025
- Figure 14. Global Agricultural LED Plant Lights Revenue Share by Manufacturers in 2025
- Figure 15. Agricultural LED Plant Lights Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Agricultural LED Plant Lights Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Agricultural LED Plant Lights Revenue in 2025
- Figure 18. Industry Chain Map of Agricultural LED Plant Lights
- Figure 19. Global Agricultural LED Plant Lights Market PEST Analysis
- Figure 20. Global Agricultural LED Plant Lights Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Agricultural LED Plant Lights Market Share by Type
- Figure 27. Sales Market Share of Agricultural LED Plant Lights by Type (2020-2025)
- Figure 28. Sales Market Share of Agricultural LED Plant Lights by Type in 2025
- Figure 29. Market Share of Agricultural LED Plant Lights by Type (2020-2025)
- Figure 30. Market Share of Agricultural LED Plant Lights by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Agricultural LED Plant Lights Market Share by Application
- Figure 33. Global Agricultural LED Plant Lights Sales Market Share by Application (2020-2025)
- Figure 34. Global Agricultural LED Plant Lights Sales Market Share by Application in 2025
- Figure 35. Global Agricultural LED Plant Lights Market Share by Application (2020-2025)
- Figure 36. Global Agricultural LED Plant Lights Market Share by Application in 2025
- Figure 37. Global Agricultural LED Plant Lights Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Agricultural LED Plant Lights Sales Market Share by Region (2020-2025)
- Figure 39. Global Agricultural LED Plant Lights Market Size by Region (2020-2025)
- Figure 40. North America Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Agricultural LED Plant Lights Sales Market Share by Country in 2024
- Figure 43. North America Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Agricultural LED Plant Lights Market Size by Country in 2024
- Figure 45. U.S. Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Agricultural LED Plant Lights Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Agricultural LED Plant Lights Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Agricultural LED Plant Lights Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Agricultural LED Plant Lights Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Agricultural LED Plant Lights Sales Market Share by Country in 2024
- Figure 53. Europe Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Agricultural LED Plant Lights Market Size by Country in 2024

Figure 55. Germany Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Agricultural LED Plant Lights Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Agricultural LED Plant Lights Sales Market Share by Region in 2024

Figure 67. Asia Pacific Agricultural LED Plant Lights Market Size by Region in 2024

Figure 68. China Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Agricultural LED Plant Lights Sales and Growth Rate (K Units)

Figure 79. South America Agricultural LED Plant Lights Sales Market Share by Country in 2024

Figure 80. South America Agricultural LED Plant Lights Market Size and Growth Rate (M USD)

Figure 81. South America Agricultural LED Plant Lights Market Size by Country in 2024

Figure 82. Brazil Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Agricultural LED Plant Lights Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Agricultural LED Plant Lights Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Agricultural LED Plant Lights Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Agricultural LED Plant Lights Market Size by Region in 2024

Figure 92. Saudi Arabia Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Agricultural LED Plant Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Agricultural LED Plant Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Agricultural LED Plant Lights Production Market Share by Region (2020-2025)

Figure 103. North America Agricultural LED Plant Lights Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Agricultural LED Plant Lights Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Agricultural LED Plant Lights Production (K Units) Growth Rate (2020-2025)

Figure 106. China Agricultural LED Plant Lights Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Agricultural LED Plant Lights Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Agricultural LED Plant Lights Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Agricultural LED Plant Lights Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Agricultural LED Plant Lights Market Share Forecast by Type (2026-2035)

Figure 111. Global Agricultural LED Plant Lights Sales Forecast by Application (2026-2035)

Figure 112. Global Agricultural LED Plant Lights Market Share Forecast by Application (2026-2035)

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