

Global Plant Factory Grow Lights Market Research Report 2026(Status and Outlook)

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Abstracts

A closed system of farming wherein a farmer or a farm technician attempts to achieve farm production under regulated conditions which have been created artificially is known as plant factory. Plant factories are generally used for the purpose of growing organic vegetables. This needs artificial control of temperature, light, carbon dioxide and moisture. Grow light is an artificial source of light which are designed to emit electromagnetic spectrum which is suitable for the photosynthesis purpose. Grow light is useful for warehouse food production. Visible light has a different spectrum as compared to grow light. The spectrum of grow lights can be optimized according to plant. The productivity of crops increases by a significant factor due to plant factory practice. LED plant lighting belongs to the category of agricultural semiconductor lighting, can be understood as, it is the use of semiconductor electric light source and its intelligent control equipment, according to the requirements of the light environment requirements of plant growth and production objectives, the use of artificial light to create a suitable light environment or make up for the lack of natural light, regulate the growth of plants, To achieve "high quality, high yield, stable yield, university, ecology, safety" production goals of an agricultural engineering measure. LED lighting can be widely used in plant tissue culture, leaf vegetable production, greenhouse light, plant factory, seedling factory, medicinal plant cultivation, edible fungus factory, algae culture, plant protection, space fruits and vegetables, flower planting, insect repellent and other fields. The cultivated fruits and vegetables, flowers, herbs and other plants can meet the needs of military border posts, high-cold areas, areas lacking water and electricity resources, home office gardening, Marine space personnel, special patients and other areas or populations. At present, many LED plant lighting devices have been developed and produced on the market, such as LED plant growth lamps, plant growth boxes, LED plant growth lamps for residential use, and mosquito repellent lamps. Among them, the common forms of LED plant growth lights are bulbs, light strips, panel lights, light belts,

downlights, light grids and so on.

The global Plant Factory Grow Lights market size was estimated at USD 3584.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Plant Factory Grow 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 Plant Factory Grow 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 Plant Factory Grow Lights market.

Global Plant Factory Grow 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
General Electric
Osram
Cree
Hubbell Lighting
Gavita
Illumitex
Lumigrow
Everlight Electronics
Kessil
Valoya
Heliospectra AB
Cidly
Ohmax Optoelectronic
Senmatic
AIS LED Light
Yaham Lighting
PARUS
Up-shine Lighting

Market Segmentation (by Type)

High-Intensity Discharge
Fluorescent Lighting
LED
Others

Market Segmentation (by Application)

Vertical Farming
Indoor Farming
Commercial Greenhouse
Turf and Landscaping
Research
Others

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 Plant Factory Grow Lights Market

Overview of the regional outlook of the Plant Factory Grow Lights Market:

Customization of the Report

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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 Plant Factory Grow 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 Plant Factory Grow 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 Plant Factory Grow Lights

1.2 Key Market Segments

1.2.1 Plant Factory Grow Lights Segment by Type

1.2.2 Plant Factory Grow 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 PLANT FACTORY GROW LIGHTS MARKET OVERVIEW

2.1 Global Market Overview

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

2.1.2 Global Plant Factory Grow Lights Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 PLANT FACTORY GROW LIGHTS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Plant Factory Grow Lights Product Life Cycle

3.3 Global Plant Factory Grow Lights Sales by Manufacturers (2020-2025)

3.4 Global Plant Factory Grow Lights Revenue Market Share by Manufacturers (2020-2025)

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

3.6 Global Plant Factory Grow Lights Average Price by Manufacturers (2020-2025)

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

3.8 Plant Factory Grow Lights Market Competitive Situation and Trends

3.8.1 Plant Factory Grow Lights Market Concentration Rate

3.8.2 Global 5 and 10 Largest Plant Factory Grow Lights Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 PLANT FACTORY GROW LIGHTS INDUSTRY CHAIN ANALYSIS

4.1 Plant Factory Grow 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 PLANT FACTORY GROW 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 Plant Factory Grow 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 Plant Factory Grow Lights Market

5.7 ESG Ratings of Leading Companies

6 PLANT FACTORY GROW LIGHTS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Plant Factory Grow Lights Sales Market Share by Type (2020-2025)

6.3 Global Plant Factory Grow Lights Market Size by Type (2020-2025)

6.4 Global Plant Factory Grow Lights Price by Type (2020-2025)

7 PLANT FACTORY GROW LIGHTS MARKET SEGMENTATION BY APPLICATION

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

8 PLANT FACTORY GROW LIGHTS MARKET SALES BY REGION

- 8.1 Global Plant Factory Grow Lights Sales by Region
 - 8.1.1 Global Plant Factory Grow Lights Sales by Region
 - 8.1.2 Global Plant Factory Grow Lights Sales Market Share by Region
- 8.2 Global Plant Factory Grow Lights Market Size by Region
 - 8.2.1 Global Plant Factory Grow Lights Market Size by Region
 - 8.2.2 Global Plant Factory Grow Lights Market Size by Region
- 8.3 North America
 - 8.3.1 North America Plant Factory Grow Lights Sales by Country
 - 8.3.2 North America Plant Factory Grow 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 Plant Factory Grow Lights Sales by Country
 - 8.4.2 Europe Plant Factory Grow 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 Plant Factory Grow Lights Sales by Region
 - 8.5.2 Asia Pacific Plant Factory Grow 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 Plant Factory Grow Lights Sales by Country
 - 8.6.2 South America Plant Factory Grow 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 Plant Factory Grow Lights Sales by Region

8.7.2 Middle East and Africa Plant Factory Grow 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 PLANT FACTORY GROW LIGHTS MARKET PRODUCTION BY REGION

9.1 Global Production of Plant Factory Grow Lights by Region(2020-2025)

9.2 Global Plant Factory Grow Lights Revenue Market Share by Region (2020-2025)

9.3 Global Plant Factory Grow Lights Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Plant Factory Grow Lights Production

9.4.1 North America Plant Factory Grow Lights Production Growth Rate (2020-2025)

9.4.2 North America Plant Factory Grow Lights Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Plant Factory Grow Lights Production

9.5.1 Europe Plant Factory Grow Lights Production Growth Rate (2020-2025)

9.5.2 Europe Plant Factory Grow Lights Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Plant Factory Grow Lights Production (2020-2025)

9.6.1 Japan Plant Factory Grow Lights Production Growth Rate (2020-2025)

9.6.2 Japan Plant Factory Grow Lights Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Plant Factory Grow Lights Production (2020-2025)

9.7.1 China Plant Factory Grow Lights Production Growth Rate (2020-2025)

9.7.2 China Plant Factory Grow 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 Plant Factory Grow Lights Product Overview
- 10.1.3 Signify Plant Factory Grow Lights Product Market Performance
- 10.1.4 Signify Business Overview
- 10.1.5 Signify SWOT Analysis
- 10.1.6 Signify Recent Developments
- 10.2 General Electric
 - 10.2.1 General Electric Basic Information
 - 10.2.2 General Electric Plant Factory Grow Lights Product Overview
 - 10.2.3 General Electric Plant Factory Grow Lights Product Market Performance
 - 10.2.4 General Electric Business Overview
 - 10.2.5 General Electric SWOT Analysis
 - 10.2.6 General Electric Recent Developments
- 10.3 Osram
 - 10.3.1 Osram Basic Information
 - 10.3.2 Osram Plant Factory Grow Lights Product Overview
 - 10.3.3 Osram Plant Factory Grow Lights Product Market Performance
 - 10.3.4 Osram Business Overview
 - 10.3.5 Osram SWOT Analysis
 - 10.3.6 Osram Recent Developments
- 10.4 Cree
 - 10.4.1 Cree Basic Information
 - 10.4.2 Cree Plant Factory Grow Lights Product Overview
 - 10.4.3 Cree Plant Factory Grow Lights Product Market Performance
 - 10.4.4 Cree Business Overview
 - 10.4.5 Cree Recent Developments
- 10.5 Hubbell Lighting
 - 10.5.1 Hubbell Lighting Basic Information
 - 10.5.2 Hubbell Lighting Plant Factory Grow Lights Product Overview
 - 10.5.3 Hubbell Lighting Plant Factory Grow Lights Product Market Performance
 - 10.5.4 Hubbell Lighting Business Overview
 - 10.5.5 Hubbell Lighting Recent Developments
- 10.6 Gavita
 - 10.6.1 Gavita Basic Information
 - 10.6.2 Gavita Plant Factory Grow Lights Product Overview
 - 10.6.3 Gavita Plant Factory Grow Lights Product Market Performance
 - 10.6.4 Gavita Business Overview
 - 10.6.5 Gavita Recent Developments
- 10.7 Illumitex
 - 10.7.1 Illumitex Basic Information

- 10.7.2 Illumitex Plant Factory Grow Lights Product Overview
- 10.7.3 Illumitex Plant Factory Grow Lights Product Market Performance
- 10.7.4 Illumitex Business Overview
- 10.7.5 Illumitex Recent Developments
- 10.8 Lumigrow
 - 10.8.1 Lumigrow Basic Information
 - 10.8.2 Lumigrow Plant Factory Grow Lights Product Overview
 - 10.8.3 Lumigrow Plant Factory Grow Lights Product Market Performance
 - 10.8.4 Lumigrow Business Overview
 - 10.8.5 Lumigrow Recent Developments
- 10.9 Everlight Electronics
 - 10.9.1 Everlight Electronics Basic Information
 - 10.9.2 Everlight Electronics Plant Factory Grow Lights Product Overview
 - 10.9.3 Everlight Electronics Plant Factory Grow Lights Product Market Performance
 - 10.9.4 Everlight Electronics Business Overview
 - 10.9.5 Everlight Electronics Recent Developments
- 10.10 Kessil
 - 10.10.1 Kessil Basic Information
 - 10.10.2 Kessil Plant Factory Grow Lights Product Overview
 - 10.10.3 Kessil Plant Factory Grow Lights Product Market Performance
 - 10.10.4 Kessil Business Overview
 - 10.10.5 Kessil Recent Developments
- 10.11 Valoya
 - 10.11.1 Valoya Basic Information
 - 10.11.2 Valoya Plant Factory Grow Lights Product Overview
 - 10.11.3 Valoya Plant Factory Grow Lights Product Market Performance
 - 10.11.4 Valoya Business Overview
 - 10.11.5 Valoya Recent Developments
- 10.12 Heliospectra AB
 - 10.12.1 Heliospectra AB Basic Information
 - 10.12.2 Heliospectra AB Plant Factory Grow Lights Product Overview
 - 10.12.3 Heliospectra AB Plant Factory Grow Lights Product Market Performance
 - 10.12.4 Heliospectra AB Business Overview
 - 10.12.5 Heliospectra AB Recent Developments
- 10.13 Cidly
 - 10.13.1 Cidly Basic Information
 - 10.13.2 Cidly Plant Factory Grow Lights Product Overview
 - 10.13.3 Cidly Plant Factory Grow Lights Product Market Performance
 - 10.13.4 Cidly Business Overview

- 10.13.5 Cidly Recent Developments
- 10.14 Ohmax Optoelectronic
 - 10.14.1 Ohmax Optoelectronic Basic Information
 - 10.14.2 Ohmax Optoelectronic Plant Factory Grow Lights Product Overview
 - 10.14.3 Ohmax Optoelectronic Plant Factory Grow Lights Product Market Performance
 - 10.14.4 Ohmax Optoelectronic Business Overview
 - 10.14.5 Ohmax Optoelectronic Recent Developments
- 10.15 Senmatic
 - 10.15.1 Senmatic Basic Information
 - 10.15.2 Senmatic Plant Factory Grow Lights Product Overview
 - 10.15.3 Senmatic Plant Factory Grow Lights Product Market Performance
 - 10.15.4 Senmatic Business Overview
 - 10.15.5 Senmatic Recent Developments
- 10.16 AIS LED Light
 - 10.16.1 AIS LED Light Basic Information
 - 10.16.2 AIS LED Light Plant Factory Grow Lights Product Overview
 - 10.16.3 AIS LED Light Plant Factory Grow Lights Product Market Performance
 - 10.16.4 AIS LED Light Business Overview
 - 10.16.5 AIS LED Light Recent Developments
- 10.17 Yaham Lighting
 - 10.17.1 Yaham Lighting Basic Information
 - 10.17.2 Yaham Lighting Plant Factory Grow Lights Product Overview
 - 10.17.3 Yaham Lighting Plant Factory Grow Lights Product Market Performance
 - 10.17.4 Yaham Lighting Business Overview
 - 10.17.5 Yaham Lighting Recent Developments
- 10.18 PARUS
 - 10.18.1 PARUS Basic Information
 - 10.18.2 PARUS Plant Factory Grow Lights Product Overview
 - 10.18.3 PARUS Plant Factory Grow Lights Product Market Performance
 - 10.18.4 PARUS Business Overview
 - 10.18.5 PARUS Recent Developments
- 10.19 Up-shine Lighting
 - 10.19.1 Up-shine Lighting Basic Information
 - 10.19.2 Up-shine Lighting Plant Factory Grow Lights Product Overview
 - 10.19.3 Up-shine Lighting Plant Factory Grow Lights Product Market Performance
 - 10.19.4 Up-shine Lighting Business Overview
 - 10.19.5 Up-shine Lighting Recent Developments

11 PLANT FACTORY GROW LIGHTS MARKET FORECAST BY REGION

11.1 Global Plant Factory Grow Lights Market Size Forecast

11.2 Global Plant Factory Grow Lights Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Plant Factory Grow Lights Market Size Forecast by Country

11.2.3 Asia Pacific Plant Factory Grow Lights Market Size Forecast by Region

11.2.4 South America Plant Factory Grow Lights Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Plant Factory Grow Lights by Country

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

12.1 Global Plant Factory Grow Lights Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Plant Factory Grow Lights by Type (2026-2035)

12.1.2 Global Plant Factory Grow Lights Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Plant Factory Grow Lights by Type (2026-2035)

12.2 Global Plant Factory Grow Lights Market Forecast by Application (2026-2035)

12.2.1 Global Plant Factory Grow Lights Sales (K Units) Forecast by Application

12.2.2 Global Plant Factory Grow 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 Plant Factory Grow Lights Market Size by Type (M USD)
Table 4. Global Plant Factory Grow Lights Market Size by Application
Table 5. Plant Factory Grow Lights Market Size Comparison by Region (M USD)
Table 6. Global Plant Factory Grow Lights Sales (K Units) by Manufacturers (2020-2025)
Table 7. Global Plant Factory Grow Lights Sales Market Share by Manufacturers (2020-2025)
Table 8. Global Plant Factory Grow Lights Revenue (M USD) by Manufacturers (2020-2025)
Table 9. Global Plant Factory Grow Lights Revenue Share by Manufacturers (2020-2025)
Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Plant Factory Grow Lights as of 2025)
Table 11. Global Market Plant Factory Grow 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 Plant Factory Grow 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. Plant Factory Grow 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 Plant Factory Grow Lights Sales by Type (K Units)
Table 27. Global Plant Factory Grow Lights Market Size by Type (M USD)

Table 28. Global Plant Factory Grow Lights Sales (K Units) by Type (2020-2025)
Table 29. Global Plant Factory Grow Lights Sales Market Share by Type (2020-2025)
Table 30. Global Plant Factory Grow Lights Market Size (M USD) by Type (2020-2025)
Table 31. Global Plant Factory Grow Lights Market Share by Type (2020-2025)
Table 32. Global Plant Factory Grow Lights Price (USD/Unit) by Type (2020-2025)
Table 33. Global Plant Factory Grow Lights Sales (K Units) by Application
Table 34. Global Plant Factory Grow Lights Market Size by Application
Table 35. Global Plant Factory Grow Lights Sales by Application (2020-2025) & (K Units)
Table 36. Global Plant Factory Grow Lights Sales Market Share by Application (2020-2025)
Table 37. Global Plant Factory Grow Lights Market Size by Application (2020-2025) & (M USD)
Table 38. Global Plant Factory Grow Lights Market Share by Application (2020-2025)
Table 39. Global Plant Factory Grow Lights Sales Growth Rate by Application (2020-2025)
Table 40. Global Plant Factory Grow Lights Sales by Region (2020-2025) & (K Units)
Table 41. Global Plant Factory Grow Lights Sales Market Share by Region (2020-2025)
Table 42. Global Plant Factory Grow Lights Market Size by Region (2020-2025) & (M USD)
Table 43. Global Plant Factory Grow Lights Market Size by Region (2020-2025)
Table 44. North America Plant Factory Grow Lights Sales by Country (2020-2025) & (K Units)
Table 45. North America Plant Factory Grow Lights Market Size by Country (2020-2025) & (M USD)
Table 46. Europe Plant Factory Grow Lights Sales by Country (2020-2025) & (K Units)
Table 47. Europe Plant Factory Grow Lights Market Size by Country (2020-2025) & (M USD)
Table 48. Asia Pacific Plant Factory Grow Lights Sales by Region (2020-2025) & (K Units)
Table 49. Asia Pacific Plant Factory Grow Lights Market Size by Region (2020-2025) & (M USD)
Table 50. South America Plant Factory Grow Lights Sales by Country (2020-2025) & (K Units)
Table 51. South America Plant Factory Grow Lights Market Size by Country (2020-2025) & (M USD)
Table 52. Middle East and Africa Plant Factory Grow Lights Sales by Region (2020-2025) & (K Units)
Table 53. Middle East and Africa Plant Factory Grow Lights Market Size by Region

(2020-2025) & (M USD)

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

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

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

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

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

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

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

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

Table 62. Signify Basic Information

Table 63. Signify Plant Factory Grow Lights Product Overview

Table 64. Signify Plant Factory Grow 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. General Electric Basic Information

Table 69. General Electric Plant Factory Grow Lights Product Overview

Table 70. General Electric Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. General Electric Business Overview

Table 72. General Electric SWOT Analysis

Table 73. General Electric Recent Developments

Table 74. Osram Basic Information

Table 75. Osram Plant Factory Grow Lights Product Overview

Table 76. Osram Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Osram Business Overview

Table 78. Osram SWOT Analysis

Table 79. Osram Recent Developments

Table 80. Cree Basic Information

Table 81. Cree Plant Factory Grow Lights Product Overview

Table 82. Cree Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Cree Business Overview

Table 84. Cree Recent Developments

Table 85. Hubbell Lighting Basic Information

Table 86. Hubbell Lighting Plant Factory Grow Lights Product Overview

Table 87. Hubbell Lighting Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Hubbell Lighting Business Overview

Table 89. Hubbell Lighting Recent Developments

Table 90. Gavita Basic Information

Table 91. Gavita Plant Factory Grow Lights Product Overview

Table 92. Gavita Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Gavita Business Overview

Table 94. Gavita Recent Developments

Table 95. Illumitex Basic Information

Table 96. Illumitex Plant Factory Grow Lights Product Overview

Table 97. Illumitex Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Illumitex Business Overview

Table 99. Illumitex Recent Developments

Table 100. Lumigrow Basic Information

Table 101. Lumigrow Plant Factory Grow Lights Product Overview

Table 102. Lumigrow Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Lumigrow Business Overview

Table 104. Lumigrow Recent Developments

Table 105. Everlight Electronics Basic Information

Table 106. Everlight Electronics Plant Factory Grow Lights Product Overview

Table 107. Everlight Electronics Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Everlight Electronics Business Overview

Table 109. Everlight Electronics Recent Developments

Table 110. Kessil Basic Information

Table 111. Kessil Plant Factory Grow Lights Product Overview

Table 112. Kessil Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Kessil Business Overview

Table 114. Kessil Recent Developments
Table 115. Valoya Basic Information
Table 116. Valoya Plant Factory Grow Lights Product Overview
Table 117. Valoya Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118. Valoya Business Overview
Table 119. Valoya Recent Developments
Table 120. Heliospectra AB Basic Information
Table 121. Heliospectra AB Plant Factory Grow Lights Product Overview
Table 122. Heliospectra AB Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 123. Heliospectra AB Business Overview
Table 124. Heliospectra AB Recent Developments
Table 125. Cidly Basic Information
Table 126. Cidly Plant Factory Grow Lights Product Overview
Table 127. Cidly Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 128. Cidly Business Overview
Table 129. Cidly Recent Developments
Table 130. Ohmax Optoelectronic Basic Information
Table 131. Ohmax Optoelectronic Plant Factory Grow Lights Product Overview
Table 132. Ohmax Optoelectronic Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 133. Ohmax Optoelectronic Business Overview
Table 134. Ohmax Optoelectronic Recent Developments
Table 135. Senmatic Basic Information
Table 136. Senmatic Plant Factory Grow Lights Product Overview
Table 137. Senmatic Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 138. Senmatic Business Overview
Table 139. Senmatic Recent Developments
Table 140. AIS LED Light Basic Information
Table 141. AIS LED Light Plant Factory Grow Lights Product Overview
Table 142. AIS LED Light Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 143. AIS LED Light Business Overview
Table 144. AIS LED Light Recent Developments
Table 145. Yaham Lighting Basic Information
Table 146. Yaham Lighting Plant Factory Grow Lights Product Overview

Table 147. Yaham Lighting Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. Yaham Lighting Business Overview

Table 149. Yaham Lighting Recent Developments

Table 150. PARUS Basic Information

Table 151. PARUS Plant Factory Grow Lights Product Overview

Table 152. PARUS Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 153. PARUS Business Overview

Table 154. PARUS Recent Developments

Table 155. Up-shine Lighting Basic Information

Table 156. Up-shine Lighting Plant Factory Grow Lights Product Overview

Table 157. Up-shine Lighting Plant Factory Grow Lights Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 158. Up-shine Lighting Business Overview

Table 159. Up-shine Lighting Recent Developments

Table 160. Global Plant Factory Grow Lights Sales Forecast by Region (2026-2035) & (K Units)

Table 161. Global Plant Factory Grow Lights Market Size Forecast by Region (2026-2035) & (M USD)

Table 162. North America Plant Factory Grow Lights Sales Forecast by Country (2026-2035) & (K Units)

Table 163. North America Plant Factory Grow Lights Market Size Forecast by Country (2026-2035) & (M USD)

Table 164. Europe Plant Factory Grow Lights Sales Forecast by Country (2026-2035) & (K Units)

Table 165. Europe Plant Factory Grow Lights Market Size Forecast by Country (2026-2035) & (M USD)

Table 166. Asia Pacific Plant Factory Grow Lights Sales Forecast by Region (2026-2035) & (K Units)

Table 167. Asia Pacific Plant Factory Grow Lights Market Size Forecast by Region (2026-2035) & (M USD)

Table 168. South America Plant Factory Grow Lights Sales Forecast by Country (2026-2035) & (K Units)

Table 169. South America Plant Factory Grow Lights Market Size Forecast by Country (2026-2035) & (M USD)

Table 170. Middle East and Africa Plant Factory Grow Lights Sales Forecast by Country (2026-2035) & (Units)

Table 171. Middle East and Africa Plant Factory Grow Lights Market Size Forecast by

Country (2026-2035) & (M USD)

Table 172. Global Plant Factory Grow Lights Sales Forecast by Type (2026-2035) & (K Units)

Table 173. Global Plant Factory Grow Lights Market Size Forecast by Type (2026-2035) & (M USD)

Table 174. Global Plant Factory Grow Lights Price Forecast by Type (2026-2035) & (USD/Unit)

Table 175. Global Plant Factory Grow Lights Sales (K Units) Forecast by Application (2026-2035)

Table 176. Global Plant Factory Grow Lights Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Plant Factory Grow Lights
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Plant Factory Grow Lights Market Size (M USD), 2025-2035
- Figure 5. Global Plant Factory Grow Lights Market Size (M USD) (2020-2035)
- Figure 6. Global Plant Factory Grow 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. Plant Factory Grow Lights Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Plant Factory Grow Lights Product Life Cycle
- Figure 13. Plant Factory Grow Lights Sales Share by Manufacturers in 2025
- Figure 14. Global Plant Factory Grow Lights Revenue Share by Manufacturers in 2025
- Figure 15. Plant Factory Grow Lights Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Plant Factory Grow Lights Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Plant Factory Grow Lights Revenue in 2025
- Figure 18. Industry Chain Map of Plant Factory Grow Lights
- Figure 19. Global Plant Factory Grow Lights Market PEST Analysis
- Figure 20. Global Plant Factory Grow 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 Plant Factory Grow Lights Market Share by Type
- Figure 27. Sales Market Share of Plant Factory Grow Lights by Type (2020-2025)
- Figure 28. Sales Market Share of Plant Factory Grow Lights by Type in 2025
- Figure 29. Market Share of Plant Factory Grow Lights by Type (2020-2025)
- Figure 30. Market Share of Plant Factory Grow Lights by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Plant Factory Grow Lights Market Share by Application

Figure 33. Global Plant Factory Grow Lights Sales Market Share by Application (2020-2025)

Figure 34. Global Plant Factory Grow Lights Sales Market Share by Application in 2025

Figure 35. Global Plant Factory Grow Lights Market Share by Application (2020-2025)

Figure 36. Global Plant Factory Grow Lights Market Share by Application in 2025

Figure 37. Global Plant Factory Grow Lights Sales Growth Rate by Application (2020-2025)

Figure 38. Global Plant Factory Grow Lights Sales Market Share by Region (2020-2025)

Figure 39. Global Plant Factory Grow Lights Market Size by Region (2020-2025)

Figure 40. North America Plant Factory Grow Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Plant Factory Grow Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Plant Factory Grow Lights Sales Market Share by Country in 2024

Figure 43. North America Plant Factory Grow Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Plant Factory Grow Lights Market Size by Country in 2024

Figure 45. U.S. Plant Factory Grow Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Plant Factory Grow Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Plant Factory Grow Lights Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Plant Factory Grow Lights Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Plant Factory Grow Lights Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Plant Factory Grow Lights Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Plant Factory Grow Lights Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Plant Factory Grow Lights Sales Market Share by Country in 2024

Figure 53. Europe Plant Factory Grow Lights Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Plant Factory Grow Lights Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

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

Figure 65. Asia Pacific Plant Factory Grow Lights Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Plant Factory Grow Lights Sales Market Share by Region in 2024

Figure 67. Asia Pacific Plant Factory Grow Lights Market Size by Region in 2024

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

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

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

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

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

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

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

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

Figure 76. Southeast Asia Plant Factory Grow Lights Sales and Growth Rate

(2020-2025) & (K Units)

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

Figure 78. South America Plant Factory Grow Lights Sales and Growth Rate (K Units)

Figure 79. South America Plant Factory Grow Lights Sales Market Share by Country in 2024

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

Figure 81. South America Plant Factory Grow Lights Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

Figure 91. Middle East and Africa Plant Factory Grow Lights Market Size by Region in 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 111. Global Plant Factory Grow Lights Sales Forecast by Application (2026-2035)

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

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