

Global White LED Modules Market Growth 2025-2031

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Abstracts

The global White LED Modules market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

White LED Modules are electronic components composed of multiple white light-emitting diodes (LEDs) that are designed to provide efficient and energy-saving white light sources. An LED (Light Emitting Diode) is a semiconductor device that converts electrical energy into light, characterized by low energy consumption, long lifespan, and fast response. A white LED module combines several LED chips into one package, often accompanied by optical lenses and driver circuits, to produce uniform white light.

White LED modules are widely used in the lighting industry, particularly in indoor and outdoor lighting, advertising displays, automotive lighting, and consumer electronics. Compared to traditional incandescent and fluorescent lamps, white LED modules offer higher energy efficiency, longer lifespan, and produce less heat during operation, making them more environmentally friendly and energy-efficient. Moreover, with continuous advancements in LED technology, the performance of white LED modules, such as light efficiency, color quality, and brightness, has improved, meeting the lighting needs of various applications.

White LED modules come in various specifications and types to cater to different application requirements. For example, high-power white LED modules used in advertising signs and lighting devices are suitable for providing high-brightness lighting effects, while low-power white LED modules used in small devices focus on energy efficiency and compact size. As smart lighting technology continues to evolve, the

intelligent applications of white LED modules, such as dimming and color temperature adjustment, are increasingly prevalent, making white LED modules a critical component in modern lighting.

Market Development Opportunities & Main Driving Factors

White LED modules are experiencing rapid growth in the global lighting market due to their high energy efficiency and long lifespan. Energy-saving and emission-reduction policies, along with increasing environmental awareness, have made LED modules the preferred choice to replace traditional lighting devices. The rise of smart lighting technologies provides new growth momentum, with features such as smart dimming and color temperature adjustment making white LED modules widely applicable in both traditional lighting and smart home sectors. With technological advancements and decreasing production costs, market penetration is expected to increase further.

Market Challenges, Risks, & Restraints

The white LED module market faces intense competition, especially from low-cost country manufacturers who reduce prices while improving quality, putting pressure on profit margins. Furthermore, the rapid pace of technological advancement and frequent changes in consumer demand require constant innovation to stay competitive. Fluctuations in raw material prices and increasing production complexity may affect cost control, influencing pricing and profit margins. Additionally, strict standards and certification requirements in some regions create barriers to market entry.

Downstream Demand Trends

As consumer levels rise and environmental awareness grows, demand for white LED modules in sectors like building and commercial lighting continues to increase. The development of smart lighting systems is driving the application of white LED modules in emerging areas such as smart homes and smart cities. Moreover, the automotive industry's demand for LED light sources is also rising, further boosting the market for white LED modules. Overall, the demand for white LED modules across multiple downstream sectors is growing, presenting a positive market outlook.

LP Information, Inc. (LPI) ' newest research report, the "White LED Modules Industry Forecast" looks at past sales and reviews total world White LED Modules sales in 2024, providing a comprehensive analysis by region and market sector of projected White LED Modules sales for 2025 through 2031. With White LED Modules sales broken

down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world White LED Modules industry.

This Insight Report provides a comprehensive analysis of the global White LED Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on White LED Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global White LED Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for White LED Modules and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global White LED Modules.

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

Segmentation by Type:

Low Power (0.3W below)

Middle Power (0.3-0.5W)

High Power (1W and above)

Segmentation by Application:

Aviation Lighting

Automotive Headlamps

Advertising

General Lighting

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Sanan Optoelectronics

Leyard

MLS

Jufei Optoelectronics

Shenzhen Huaqiang Electronics

Osram

Skyworth Optoelectronics

BOE Technology

Everlight Electronics

Changjiang Electronics

Nichia

SAMSUNG

EPISTAR

Cree

PHILIPS Lumileds

SSC

LG Innotek

Toyoda Gosei

Semileds

Key Questions Addressed in this Report

What is the 10-year outlook for the global White LED Modules market?

What factors are driving White LED Modules market growth, globally and by region?

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

How do White LED Modules market opportunities vary by end market size?

How does White LED Modules break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global White LED Modules Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for White LED Modules by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for White LED Modules by Country/Region, 2020, 2024 & 2031
- 2.2 White LED Modules Segment by Type
 - 2.2.1 Low Power (0.3W below)
 - 2.2.2 Middle Power (0.3-0.5W)
 - 2.2.3 High Power (1W and above)
- 2.3 White LED Modules Sales by Type
 - 2.3.1 Global White LED Modules Sales Market Share by Type (2020-2025)
 - 2.3.2 Global White LED Modules Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global White LED Modules Sale Price by Type (2020-2025)
- 2.4 White LED Modules Segment by Application
 - 2.4.1 Aviation Lighting
 - 2.4.2 Automotive Headlamps
 - 2.4.3 Advertising
 - 2.4.4 General Lighting
 - 2.4.5 Other
- 2.5 White LED Modules Sales by Application
 - 2.5.1 Global White LED Modules Sale Market Share by Application (2020-2025)
 - 2.5.2 Global White LED Modules Revenue and Market Share by Application (2020-2025)

2.5.3 Global White LED Modules Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global White LED Modules Breakdown Data by Company

3.1.1 Global White LED Modules Annual Sales by Company (2020-2025)

3.1.2 Global White LED Modules Sales Market Share by Company (2020-2025)

3.2 Global White LED Modules Annual Revenue by Company (2020-2025)

3.2.1 Global White LED Modules Revenue by Company (2020-2025)

3.2.2 Global White LED Modules Revenue Market Share by Company (2020-2025)

3.3 Global White LED Modules Sale Price by Company

3.4 Key Manufacturers White LED Modules Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers White LED Modules Product Location Distribution

3.4.2 Players White LED Modules Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR WHITE LED MODULES BY GEOGRAPHIC REGION

4.1 World Historic White LED Modules Market Size by Geographic Region (2020-2025)

4.1.1 Global White LED Modules Annual Sales by Geographic Region (2020-2025)

4.1.2 Global White LED Modules Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic White LED Modules Market Size by Country/Region (2020-2025)

4.2.1 Global White LED Modules Annual Sales by Country/Region (2020-2025)

4.2.2 Global White LED Modules Annual Revenue by Country/Region (2020-2025)

4.3 Americas White LED Modules Sales Growth

4.4 APAC White LED Modules Sales Growth

4.5 Europe White LED Modules Sales Growth

4.6 Middle East & Africa White LED Modules Sales Growth

5 AMERICAS

5.1 Americas White LED Modules Sales by Country

5.1.1 Americas White LED Modules Sales by Country (2020-2025)

- 5.1.2 Americas White LED Modules Revenue by Country (2020-2025)
- 5.2 Americas White LED Modules Sales by Type (2020-2025)
- 5.3 Americas White LED Modules Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC White LED Modules Sales by Region
 - 6.1.1 APAC White LED Modules Sales by Region (2020-2025)
 - 6.1.2 APAC White LED Modules Revenue by Region (2020-2025)
- 6.2 APAC White LED Modules Sales by Type (2020-2025)
- 6.3 APAC White LED Modules Sales by Application (2020-2025)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe White LED Modules by Country
 - 7.1.1 Europe White LED Modules Sales by Country (2020-2025)
 - 7.1.2 Europe White LED Modules Revenue by Country (2020-2025)
- 7.2 Europe White LED Modules Sales by Type (2020-2025)
- 7.3 Europe White LED Modules Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa White LED Modules by Country

- 8.1.1 Middle East & Africa White LED Modules Sales by Country (2020-2025)
- 8.1.2 Middle East & Africa White LED Modules Revenue by Country (2020-2025)
- 8.2 Middle East & Africa White LED Modules Sales by Type (2020-2025)
- 8.3 Middle East & Africa White LED Modules Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of White LED Modules
- 10.3 Manufacturing Process Analysis of White LED Modules
- 10.4 Industry Chain Structure of White LED Modules

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 White LED Modules Distributors
- 11.3 White LED Modules Customer

12 WORLD FORECAST REVIEW FOR WHITE LED MODULES BY GEOGRAPHIC REGION

- 12.1 Global White LED Modules Market Size Forecast by Region
 - 12.1.1 Global White LED Modules Forecast by Region (2026-2031)
 - 12.1.2 Global White LED Modules Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)

- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global White LED Modules Forecast by Type (2026-2031)
- 12.7 Global White LED Modules Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Sanan Optoelectronics

- 13.1.1 Sanan Optoelectronics Company Information
- 13.1.2 Sanan Optoelectronics White LED Modules Product Portfolios and Specifications
- 13.1.3 Sanan Optoelectronics White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.1.4 Sanan Optoelectronics Main Business Overview
- 13.1.5 Sanan Optoelectronics Latest Developments

13.2 Leyard

- 13.2.1 Leyard Company Information
- 13.2.2 Leyard White LED Modules Product Portfolios and Specifications
- 13.2.3 Leyard White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.2.4 Leyard Main Business Overview
- 13.2.5 Leyard Latest Developments

13.3 MLS

- 13.3.1 MLS Company Information
- 13.3.2 MLS White LED Modules Product Portfolios and Specifications
- 13.3.3 MLS White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.3.4 MLS Main Business Overview
- 13.3.5 MLS Latest Developments

13.4 Jufei Optoelectronics

- 13.4.1 Jufei Optoelectronics Company Information
- 13.4.2 Jufei Optoelectronics White LED Modules Product Portfolios and Specifications
- 13.4.3 Jufei Optoelectronics White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.4.4 Jufei Optoelectronics Main Business Overview
- 13.4.5 Jufei Optoelectronics Latest Developments

13.5 Shenzhen Huaqiang Electronics

- 13.5.1 Shenzhen Huaqiang Electronics Company Information
- 13.5.2 Shenzhen Huaqiang Electronics White LED Modules Product Portfolios and Specifications

13.5.3 Shenzhen Huaqiang Electronics White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Shenzhen Huaqiang Electronics Main Business Overview

13.5.5 Shenzhen Huaqiang Electronics Latest Developments

13.6 Osram

13.6.1 Osram Company Information

13.6.2 Osram White LED Modules Product Portfolios and Specifications

13.6.3 Osram White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Osram Main Business Overview

13.6.5 Osram Latest Developments

13.7 Skyworth Optoelectronics

13.7.1 Skyworth Optoelectronics Company Information

13.7.2 Skyworth Optoelectronics White LED Modules Product Portfolios and Specifications

13.7.3 Skyworth Optoelectronics White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Skyworth Optoelectronics Main Business Overview

13.7.5 Skyworth Optoelectronics Latest Developments

13.8 BOE Technology

13.8.1 BOE Technology Company Information

13.8.2 BOE Technology White LED Modules Product Portfolios and Specifications

13.8.3 BOE Technology White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 BOE Technology Main Business Overview

13.8.5 BOE Technology Latest Developments

13.9 Everlight Electronics

13.9.1 Everlight Electronics Company Information

13.9.2 Everlight Electronics White LED Modules Product Portfolios and Specifications

13.9.3 Everlight Electronics White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Everlight Electronics Main Business Overview

13.9.5 Everlight Electronics Latest Developments

13.10 Changjiang Electronics

13.10.1 Changjiang Electronics Company Information

13.10.2 Changjiang Electronics White LED Modules Product Portfolios and Specifications

13.10.3 Changjiang Electronics White LED Modules Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Changjiang Electronics Main Business Overview

13.10.5 Changjiang Electronics Latest Developments

13.11 Nichia

13.11.1 Nichia Company Information

13.11.2 Nichia White LED Modules Product Portfolios and Specifications

13.11.3 Nichia White LED Modules Sales, Revenue, Price and Gross Margin

(2020-2025)

13.11.4 Nichia Main Business Overview

13.11.5 Nichia Latest Developments

13.12 SAMSUNG

13.12.1 SAMSUNG Company Information

13.12.2 SAMSUNG White LED Modules Product Portfolios and Specifications

13.12.3 SAMSUNG White LED Modules Sales, Revenue, Price and Gross Margin

(2020-2025)

13.12.4 SAMSUNG Main Business Overview

13.12.5 SAMSUNG Latest Developments

13.13 EPISTAR

13.13.1 EPISTAR Company Information

13.13.2 EPISTAR White LED Modules Product Portfolios and Specifications

13.13.3 EPISTAR White LED Modules Sales, Revenue, Price and Gross Margin

(2020-2025)

13.13.4 EPISTAR Main Business Overview

13.13.5 EPISTAR Latest Developments

13.14 Cree

13.14.1 Cree Company Information

13.14.2 Cree White LED Modules Product Portfolios and Specifications

13.14.3 Cree White LED Modules Sales, Revenue, Price and Gross Margin

(2020-2025)

13.14.4 Cree Main Business Overview

13.14.5 Cree Latest Developments

13.15 PHILIPS Lumileds

13.15.1 PHILIPS Lumileds Company Information

13.15.2 PHILIPS Lumileds White LED Modules Product Portfolios and Specifications

13.15.3 PHILIPS Lumileds White LED Modules Sales, Revenue, Price and Gross

Margin (2020-2025)

13.15.4 PHILIPS Lumileds Main Business Overview

13.15.5 PHILIPS Lumileds Latest Developments

13.16 SSC

13.16.1 SSC Company Information

- 13.16.2 SSC White LED Modules Product Portfolios and Specifications
- 13.16.3 SSC White LED Modules Sales, Revenue, Price and Gross Margin
(2020-2025)
- 13.16.4 SSC Main Business Overview
- 13.16.5 SSC Latest Developments
- 13.17 LG Innotek
 - 13.17.1 LG Innotek Company Information
 - 13.17.2 LG Innotek White LED Modules Product Portfolios and Specifications
 - 13.17.3 LG Innotek White LED Modules Sales, Revenue, Price and Gross Margin
(2020-2025)
 - 13.17.4 LG Innotek Main Business Overview
 - 13.17.5 LG Innotek Latest Developments
- 13.18 Toyoda Gosei
 - 13.18.1 Toyoda Gosei Company Information
 - 13.18.2 Toyoda Gosei White LED Modules Product Portfolios and Specifications
 - 13.18.3 Toyoda Gosei White LED Modules Sales, Revenue, Price and Gross Margin
(2020-2025)
 - 13.18.4 Toyoda Gosei Main Business Overview
 - 13.18.5 Toyoda Gosei Latest Developments
- 13.19 Semileds
 - 13.19.1 Semileds Company Information
 - 13.19.2 Semileds White LED Modules Product Portfolios and Specifications
 - 13.19.3 Semileds White LED Modules Sales, Revenue, Price and Gross Margin
(2020-2025)
 - 13.19.4 Semileds Main Business Overview
 - 13.19.5 Semileds Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

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

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

Table 3. Major Players of Low Power (0.3W below)

Table 4. Major Players of Middle Power (0.3-0.5W)

Table 5. Major Players of High Power (1W and above)

Table 6. Global White LED Modules Sales by Type (2020-2025) & (K Units)

Table 7. Global White LED Modules Sales Market Share by Type (2020-2025)

Table 8. Global White LED Modules Revenue by Type (2020-2025) & (\$ million)

Table 9. Global White LED Modules Revenue Market Share by Type (2020-2025)

Table 10. Global White LED Modules Sale Price by Type (2020-2025) & (USD/Unit)

Table 11. Global White LED Modules Sale by Application (2020-2025) & (K Units)

Table 12. Global White LED Modules Sale Market Share by Application (2020-2025)

Table 13. Global White LED Modules Revenue by Application (2020-2025) & (\$ million)

Table 14. Global White LED Modules Revenue Market Share by Application (2020-2025)

Table 15. Global White LED Modules Sale Price by Application (2020-2025) & (USD/Unit)

Table 16. Global White LED Modules Sales by Company (2020-2025) & (K Units)

Table 17. Global White LED Modules Sales Market Share by Company (2020-2025)

Table 18. Global White LED Modules Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global White LED Modules Revenue Market Share by Company (2020-2025)

Table 20. Global White LED Modules Sale Price by Company (2020-2025) & (USD/Unit)

Table 21. Key Manufacturers White LED Modules Producing Area Distribution and Sales Area

Table 22. Players White LED Modules Products Offered

Table 23. White LED Modules Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global White LED Modules Sales by Geographic Region (2020-2025) & (K Units)

Table 27. Global White LED Modules Sales Market Share Geographic Region (2020-2025)

Table 28. Global White LED Modules Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global White LED Modules Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global White LED Modules Sales by Country/Region (2020-2025) & (K Units)

Table 31. Global White LED Modules Sales Market Share by Country/Region (2020-2025)

Table 32. Global White LED Modules Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global White LED Modules Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas White LED Modules Sales by Country (2020-2025) & (K Units)

Table 35. Americas White LED Modules Sales Market Share by Country (2020-2025)

Table 36. Americas White LED Modules Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas White LED Modules Sales by Type (2020-2025) & (K Units)

Table 38. Americas White LED Modules Sales by Application (2020-2025) & (K Units)

Table 39. APAC White LED Modules Sales by Region (2020-2025) & (K Units)

Table 40. APAC White LED Modules Sales Market Share by Region (2020-2025)

Table 41. APAC White LED Modules Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC White LED Modules Sales by Type (2020-2025) & (K Units)

Table 43. APAC White LED Modules Sales by Application (2020-2025) & (K Units)

Table 44. Europe White LED Modules Sales by Country (2020-2025) & (K Units)

Table 45. Europe White LED Modules Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe White LED Modules Sales by Type (2020-2025) & (K Units)

Table 47. Europe White LED Modules Sales by Application (2020-2025) & (K Units)

Table 48. Middle East & Africa White LED Modules Sales by Country (2020-2025) & (K Units)

Table 49. Middle East & Africa White LED Modules Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa White LED Modules Sales by Type (2020-2025) & (K Units)

Table 51. Middle East & Africa White LED Modules Sales by Application (2020-2025) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of White LED Modules

Table 53. Key Market Challenges & Risks of White LED Modules

Table 54. Key Industry Trends of White LED Modules

Table 55. White LED Modules Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. White LED Modules Distributors List

Table 58. White LED Modules Customer List

Table 59. Global White LED Modules Sales Forecast by Region (2026-2031) & (K Units)

Table 60. Global White LED Modules Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas White LED Modules Sales Forecast by Country (2026-2031) & (K Units)

Table 62. Americas White LED Modules Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC White LED Modules Sales Forecast by Region (2026-2031) & (K Units)

Table 64. APAC White LED Modules Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe White LED Modules Sales Forecast by Country (2026-2031) & (K Units)

Table 66. Europe White LED Modules Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa White LED Modules Sales Forecast by Country (2026-2031) & (K Units)

Table 68. Middle East & Africa White LED Modules Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global White LED Modules Sales Forecast by Type (2026-2031) & (K Units)

Table 70. Global White LED Modules Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global White LED Modules Sales Forecast by Application (2026-2031) & (K Units)

Table 72. Global White LED Modules Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. Sanan Optoelectronics Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 74. Sanan Optoelectronics White LED Modules Product Portfolios and Specifications

Table 75. Sanan Optoelectronics White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 76. Sanan Optoelectronics Main Business

Table 77. Sanan Optoelectronics Latest Developments

Table 78. Leyard Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 79. Leyard White LED Modules Product Portfolios and Specifications

Table 80. Leyard White LED Modules Sales (K Units), Revenue (\$ Million), Price

(USD/Unit) and Gross Margin (2020-2025)

Table 81. Leyard Main Business

Table 82. Leyard Latest Developments

Table 83. MLS Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 84. MLS White LED Modules Product Portfolios and Specifications

Table 85. MLS White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 86. MLS Main Business

Table 87. MLS Latest Developments

Table 88. Jufei Optoelectronics Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 89. Jufei Optoelectronics White LED Modules Product Portfolios and Specifications

Table 90. Jufei Optoelectronics White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 91. Jufei Optoelectronics Main Business

Table 92. Jufei Optoelectronics Latest Developments

Table 93. Shenzhen Huaqiang Electronics Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 94. Shenzhen Huaqiang Electronics White LED Modules Product Portfolios and Specifications

Table 95. Shenzhen Huaqiang Electronics White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 96. Shenzhen Huaqiang Electronics Main Business

Table 97. Shenzhen Huaqiang Electronics Latest Developments

Table 98. Osram Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 99. Osram White LED Modules Product Portfolios and Specifications

Table 100. Osram White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 101. Osram Main Business

Table 102. Osram Latest Developments

Table 103. Skyworth Optoelectronics Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 104. Skyworth Optoelectronics White LED Modules Product Portfolios and Specifications

Table 105. Skyworth Optoelectronics White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 106. Skyworth Optoelectronics Main Business
Table 107. Skyworth Optoelectronics Latest Developments
Table 108. BOE Technology Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors
Table 109. BOE Technology White LED Modules Product Portfolios and Specifications
Table 110. BOE Technology White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 111. BOE Technology Main Business
Table 112. BOE Technology Latest Developments
Table 113. Everlight Electronics Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors
Table 114. Everlight Electronics White LED Modules Product Portfolios and Specifications
Table 115. Everlight Electronics White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 116. Everlight Electronics Main Business
Table 117. Everlight Electronics Latest Developments
Table 118. Changjiang Electronics Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors
Table 119. Changjiang Electronics White LED Modules Product Portfolios and Specifications
Table 120. Changjiang Electronics White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 121. Changjiang Electronics Main Business
Table 122. Changjiang Electronics Latest Developments
Table 123. Nichia Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors
Table 124. Nichia White LED Modules Product Portfolios and Specifications
Table 125. Nichia White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 126. Nichia Main Business
Table 127. Nichia Latest Developments
Table 128. SAMSUNG Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors
Table 129. SAMSUNG White LED Modules Product Portfolios and Specifications
Table 130. SAMSUNG White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 131. SAMSUNG Main Business
Table 132. SAMSUNG Latest Developments

Table 133. EPISTAR Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 134. EPISTAR White LED Modules Product Portfolios and Specifications

Table 135. EPISTAR White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 136. EPISTAR Main Business

Table 137. EPISTAR Latest Developments

Table 138. Cree Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 139. Cree White LED Modules Product Portfolios and Specifications

Table 140. Cree White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 141. Cree Main Business

Table 142. Cree Latest Developments

Table 143. PHILIPS Lumileds Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 144. PHILIPS Lumileds White LED Modules Product Portfolios and Specifications

Table 145. PHILIPS Lumileds White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 146. PHILIPS Lumileds Main Business

Table 147. PHILIPS Lumileds Latest Developments

Table 148. SSC Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 149. SSC White LED Modules Product Portfolios and Specifications

Table 150. SSC White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 151. SSC Main Business

Table 152. SSC Latest Developments

Table 153. LG Innotek Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 154. LG Innotek White LED Modules Product Portfolios and Specifications

Table 155. LG Innotek White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 156. LG Innotek Main Business

Table 157. LG Innotek Latest Developments

Table 158. Toyoda Gosei Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 159. Toyoda Gosei White LED Modules Product Portfolios and Specifications

Table 160. Toyoda Gosei White LED Modules Sales (K Units), Revenue (\$ Million),

Price (USD/Unit) and Gross Margin (2020-2025)

Table 161. Toyoda Gosei Main Business

Table 162. Toyoda Gosei Latest Developments

Table 163. Semileds Basic Information, White LED Modules Manufacturing Base, Sales Area and Its Competitors

Table 164. Semileds White LED Modules Product Portfolios and Specifications

Table 165. Semileds White LED Modules Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 166. Semileds Main Business

Table 167. Semileds Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of White LED Modules
- Figure 2. White LED Modules Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global White LED Modules Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global White LED Modules Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. White LED Modules Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. White LED Modules Sales Market Share by Country/Region (2024)
- Figure 10. White LED Modules Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Low Power (0.3W below)
- Figure 12. Product Picture of Middle Power (0.3-0.5W)
- Figure 13. Product Picture of High Power (1W and above)
- Figure 14. Global White LED Modules Sales Market Share by Type in 2025
- Figure 15. Global White LED Modules Revenue Market Share by Type (2020-2025)
- Figure 16. White LED Modules Consumed in Aviation Lighting
- Figure 17. Global White LED Modules Market: Aviation Lighting (2020-2025) & (K Units)
- Figure 18. White LED Modules Consumed in Automotive Headlamps
- Figure 19. Global White LED Modules Market: Automotive Headlamps (2020-2025) & (K Units)
- Figure 20. White LED Modules Consumed in Advertising
- Figure 21. Global White LED Modules Market: Advertising (2020-2025) & (K Units)
- Figure 22. White LED Modules Consumed in General Lighting
- Figure 23. Global White LED Modules Market: General Lighting (2020-2025) & (K Units)
- Figure 24. White LED Modules Consumed in Other
- Figure 25. Global White LED Modules Market: Other (2020-2025) & (K Units)
- Figure 26. Global White LED Modules Sale Market Share by Application (2024)
- Figure 27. Global White LED Modules Revenue Market Share by Application in 2025
- Figure 28. White LED Modules Sales by Company in 2025 (K Units)
- Figure 29. Global White LED Modules Sales Market Share by Company in 2025
- Figure 30. White LED Modules Revenue by Company in 2025 (\$ millions)
- Figure 31. Global White LED Modules Revenue Market Share by Company in 2025
- Figure 32. Global White LED Modules Sales Market Share by Geographic Region

(2020-2025)

Figure 33. Global White LED Modules Revenue Market Share by Geographic Region in 2025

Figure 34. Americas White LED Modules Sales 2020-2025 (K Units)

Figure 35. Americas White LED Modules Revenue 2020-2025 (\$ millions)

Figure 36. APAC White LED Modules Sales 2020-2025 (K Units)

Figure 37. APAC White LED Modules Revenue 2020-2025 (\$ millions)

Figure 38. Europe White LED Modules Sales 2020-2025 (K Units)

Figure 39. Europe White LED Modules Revenue 2020-2025 (\$ millions)

Figure 40. Middle East & Africa White LED Modules Sales 2020-2025 (K Units)

Figure 41. Middle East & Africa White LED Modules Revenue 2020-2025 (\$ millions)

Figure 42. Americas White LED Modules Sales Market Share by Country in 2025

Figure 43. Americas White LED Modules Revenue Market Share by Country (2020-2025)

Figure 44. Americas White LED Modules Sales Market Share by Type (2020-2025)

Figure 45. Americas White LED Modules Sales Market Share by Application (2020-2025)

Figure 46. United States White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 47. Canada White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 48. Mexico White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 49. Brazil White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 50. APAC White LED Modules Sales Market Share by Region in 2025

Figure 51. APAC White LED Modules Revenue Market Share by Region (2020-2025)

Figure 52. APAC White LED Modules Sales Market Share by Type (2020-2025)

Figure 53. APAC White LED Modules Sales Market Share by Application (2020-2025)

Figure 54. China White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 55. Japan White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 56. South Korea White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 57. Southeast Asia White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 58. India White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 59. Australia White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 60. China Taiwan White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 61. Europe White LED Modules Sales Market Share by Country in 2025

Figure 62. Europe White LED Modules Revenue Market Share by Country (2020-2025)

Figure 63. Europe White LED Modules Sales Market Share by Type (2020-2025)

Figure 64. Europe White LED Modules Sales Market Share by Application (2020-2025)

Figure 65. Germany White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 66. France White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 67. UK White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 68. Italy White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 69. Russia White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 70. Middle East & Africa White LED Modules Sales Market Share by Country (2020-2025)

Figure 71. Middle East & Africa White LED Modules Sales Market Share by Type (2020-2025)

Figure 72. Middle East & Africa White LED Modules Sales Market Share by Application (2020-2025)

Figure 73. Egypt White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 74. South Africa White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 75. Israel White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 76. Turkey White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 77. GCC Countries White LED Modules Revenue Growth 2020-2025 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of White LED Modules in 2025

Figure 79. Manufacturing Process Analysis of White LED Modules

Figure 80. Industry Chain Structure of White LED Modules

Figure 81. Channels of Distribution

Figure 82. Global White LED Modules Sales Market Forecast by Region (2026-2031)

Figure 83. Global White LED Modules Revenue Market Share Forecast by Region (2026-2031)

Figure 84. Global White LED Modules Sales Market Share Forecast by Type (2026-2031)

Figure 85. Global White LED Modules Revenue Market Share Forecast by Type (2026-2031)

Figure 86. Global White LED Modules Sales Market Share Forecast by Application (2026-2031)

Figure 87. Global White LED Modules Revenue Market Share Forecast by Application (2026-2031)

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