

Global White LEDs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global White LEDs market size is expected to reach \$ 141500 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

White LED (Light Emitting Diode) is a type of lighting product that generates white light through semiconductor technology. It produces white light by mixing light sources of different wavelengths, such as red, green, and blue, resulting in the visual effect of white light. Compared to traditional light sources, white LEDs offer higher energy efficiency, longer lifespan, and smaller size, making them an essential component of the modern lighting industry. As technology advances and costs decrease, the white LED market is expanding, and its application range is diversifying rapidly.

Currently, the main drivers of the white LED market include the reduction in raw material costs, the growing demand from downstream sectors, accelerated technological innovation, and supportive policy environments. In terms of raw materials, the maturity of phosphates and blue LED chip technology has effectively controlled the production costs of white LEDs, providing conditions for rapid industry development.

Simultaneously, as global attention to energy-saving and emission reduction increases, policies and regulations are continually encouraging and promoting efficient, low-energy white LED lighting products. Regarding technological innovation, the emergence of new packaging technologies and intelligent control technologies has not only enhanced the performance of white LEDs but also provided technical support for their entry into more extensive application scenarios. While the market faces challenges such as raw material supply fluctuations and intense price competition, the overall market opportunities for white LEDs still outweigh the challenges, and the growth trend is expected to continue in the coming years.

The white LED industry chain includes upstream LED chip manufacturing, packaging, and driver power supply, as well as downstream applications in fields such as lighting, displays, and backlighting. Major upstream companies include Lumileds, Samsung Electronics, Osram, and Nichia, which have a leading advantage in technological research and production capabilities. The downstream applications are mainly concentrated in lighting, TV backlighting, automotive lighting, and other fields. Well-known companies such as Osram, Bridgelux, and Philips hold significant global market shares and drive technological iteration through continuous innovation, enhancing their product competitiveness. With the development of smart lighting and smart homes, the expansion of white LEDs in downstream applications will accelerate, bringing new market opportunities.

The white LED market is showing a diversified segmentation trend. In terms of application scenarios, the demand in areas such as home lighting, commercial lighting, industrial lighting, and automotive lighting is growing. Regarding end-user demand, consumers' needs for energy-efficient, environmentally friendly, and smart lighting are increasing. In addition, the applications of white LEDs are not limited to traditional lighting but are widely used in displays, automotive lights, landscape lighting, and other areas. As technology continues to mature, market demand will become more diverse. In the coming years, smart home lighting and smart automotive lighting are expected to become the fastest-growing submarkets for white LEDs.

There are differences in consumption trends for white LEDs across regions. In developed regions such as North America and Europe, there is a higher demand for energy-saving and environmentally friendly products, leading to continuous growth in the demand for white LED lighting products, which are gradually becoming more intelligent. In the Asia-Pacific region, particularly in China, which is the largest global producer and consumer market, the demand for white LEDs is mainly driven by government policies, environmental requirements, and urbanization. In China, the penetration rate of LED lighting products is rapidly increasing, and with the development of infrastructure and smart cities, it is expected to become the largest global market in the future. Other regions, such as Latin America and the Middle East, will also drive the growth of white LED demand as their economies develop and technological applications improve.

In 2021, Osram launched a new generation of white LED technology that offers higher energy efficiency and longer lifespan, suitable for a broader range of applications. In 2020, Samsung Electronics announced an investment of 200 billion Korean won to establish a new LED production facility in South Korea to meet the growing global

market demand. In 2019, Nichia stated in its annual report that white LED technology would be a core business for future growth, and the company would increase investments in green lighting technologies.

This report studies the global White LEDs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for White LEDs and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of White LEDs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global White LEDs total production and demand, 2021-2032, (K Units)

Global White LEDs total production value, 2021-2032, (USD Million)

Global White LEDs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global White LEDs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: White LEDs domestic production, consumption, key domestic manufacturers and share

Global White LEDs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global White LEDs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global White LEDs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global White LEDs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nichia Corporation, Wolfspeed, OSRAM Opto Semiconductors GmbH, Lumileds Holding B.V., Bridgelux, Inc., Samsung LED, Seoul Semiconductor Co., Ltd., LG Innotek Co., Ltd., Toyoda Gosei Co., Ltd., Opto Diode Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World White LEDs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global White LEDs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global White LEDs Market, Segmentation by Type:

Cool Light

Warm Light

Global White LEDs Market, Segmentation by Manufacturing Process:

Epitaxial LED Chip

SMD LED

COB LED

Flip-Chip LED

Global White LEDs Market, Segmentation by Chip Material:

GaN LED

InGaN LED

AlGaInP LED

Silicon LED(Si LED)

Global White LEDs Market, Segmentation by Application:

Consumer Electronics

General Lighting

Automotive

Others

Companies Profiled:

Nichia Corporation

Wolfspeed

OSRAM Opto Semiconductors GmbH

Lumileds Holding B.V.

Bridgelux, Inc.

Samsung LED

Seoul Semiconductor Co., Ltd.

LG Innotek Co., Ltd.

Toyoda Gosei Co., Ltd.

Opto Diode Corporation

SemiLEDs Corporation

Everlight Electronics Co., Ltd.

Ennostar Inc.

Edison Opto Corporation

Sanan Optoelectronics Co., Ltd.

HC Semitek Co., Ltd.

Nationstar Optoelectronics

Refond Optoelectronics

Honglitronic Co., Ltd.

Shenzhen Olende Optoelectronics

Shanghai Epilight Optoelectronics

LEDYi

Opto Technology, Inc.

?Guangdong Juhong Optoelectronics Co., Ltd.??

Key Questions Answered:

1. How big is the global White LEDs market?
2. What is the demand of the global White LEDs market?
3. What is the year over year growth of the global White LEDs market?
4. What is the production and production value of the global White LEDs market?
5. Who are the key producers in the global White LEDs market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 White LEDs Introduction
- 1.2 World White LEDs Supply & Forecast
 - 1.2.1 World White LEDs Production Value (2021 & 2025 & 2032)
 - 1.2.2 World White LEDs Production (2021-2032)
 - 1.2.3 World White LEDs Pricing Trends (2021-2032)
- 1.3 World White LEDs Production by Region (Based on Production Site)
 - 1.3.1 World White LEDs Production Value by Region (2021-2032)
 - 1.3.2 World White LEDs Production by Region (2021-2032)
 - 1.3.3 World White LEDs Average Price by Region (2021-2032)
 - 1.3.4 North America White LEDs Production (2021-2032)
 - 1.3.5 Europe White LEDs Production (2021-2032)
 - 1.3.6 China White LEDs Production (2021-2032)
 - 1.3.7 Japan White LEDs Production (2021-2032)
 - 1.3.8 South Korea White LEDs Production (2021-2032)
 - 1.3.9 China Taiwan White LEDs Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 White LEDs Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 White LEDs Major Market Trends

2 DEMAND SUMMARY

- 2.1 World White LEDs Demand (2021-2032)
- 2.2 World White LEDs Consumption by Region
 - 2.2.1 World White LEDs Consumption by Region (2021-2026)
 - 2.2.2 World White LEDs Consumption Forecast by Region (2027-2032)
- 2.3 United States White LEDs Consumption (2021-2032)
- 2.4 China White LEDs Consumption (2021-2032)
- 2.5 Europe White LEDs Consumption (2021-2032)
- 2.6 Japan White LEDs Consumption (2021-2032)
- 2.7 South Korea White LEDs Consumption (2021-2032)
- 2.8 ASEAN White LEDs Consumption (2021-2032)
- 2.9 India White LEDs Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World White LEDs Production Value by Manufacturer (2021-2026)
- 3.2 World White LEDs Production by Manufacturer (2021-2026)
- 3.3 World White LEDs Average Price by Manufacturer (2021-2026)
- 3.4 White LEDs Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global White LEDs Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for White LEDs in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for White LEDs in 2025
- 3.6 White LEDs Market: Overall Company Footprint Analysis
 - 3.6.1 White LEDs Market: Region Footprint
 - 3.6.2 White LEDs Market: Company Product Type Footprint
 - 3.6.3 White LEDs Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: White LEDs Production Value Comparison
 - 4.1.1 United States VS China: White LEDs Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: White LEDs Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: White LEDs Production Comparison
 - 4.2.1 United States VS China: White LEDs Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: White LEDs Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: White LEDs Consumption Comparison
 - 4.3.1 United States VS China: White LEDs Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: White LEDs Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based White LEDs Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based White LEDs Manufacturers, Headquarters and Production

Site (States, Country)

4.4.2 United States Based Manufacturers White LEDs Production Value (2021-2026)

4.4.3 United States Based Manufacturers White LEDs Production (2021-2026)

4.5 China Based White LEDs Manufacturers and Market Share

4.5.1 China Based White LEDs Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers White LEDs Production Value (2021-2026)

4.5.3 China Based Manufacturers White LEDs Production (2021-2026)

4.6 Rest of World Based White LEDs Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based White LEDs Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers White LEDs Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers White LEDs Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World White LEDs Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Cool Light

5.2.2 Warm Light

5.3 Market Segment by Type

5.3.1 World White LEDs Production by Type (2021-2032)

5.3.2 World White LEDs Production Value by Type (2021-2032)

5.3.3 World White LEDs Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MANUFACTURING PROCESS

6.1 World White LEDs Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Manufacturing Process

6.2.1 Epitaxial LED Chip

6.2.2 SMD LED

6.2.3 COB LED

6.2.4 Flip-Chip LED

6.3 Market Segment by Manufacturing Process

6.3.1 World White LEDs Production by Manufacturing Process (2021-2032)

6.3.2 World White LEDs Production Value by Manufacturing Process (2021-2032)

6.3.3 World White LEDs Average Price by Manufacturing Process (2021-2032)

7 MARKET ANALYSIS BY CHIP MATERIAL

7.1 World White LEDs Market Size Overview by Chip Material: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Chip Material

7.2.1 GaN LED

7.2.2 InGaN LED

7.2.3 AlGaInP LED

7.2.4 Silicon LED(Si LED)

7.3 Market Segment by Chip Material

7.3.1 World White LEDs Production by Chip Material (2021-2032)

7.3.2 World White LEDs Production Value by Chip Material (2021-2032)

7.3.3 World White LEDs Average Price by Chip Material (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World White LEDs Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics

8.2.2 General Lighting

8.2.3 Automotive

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World White LEDs Production by Application (2021-2032)

8.3.2 World White LEDs Production Value by Application (2021-2032)

8.3.3 World White LEDs Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nichia Corporation

9.1.1 Nichia Corporation Details

9.1.2 Nichia Corporation Major Business

9.1.3 Nichia Corporation White LEDs Product and Services

9.1.4 Nichia Corporation White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nichia Corporation Recent Developments/Updates

9.1.6 Nichia Corporation Competitive Strengths & Weaknesses

9.2 Wolfspeed

9.2.1 Wolfspeed Details

9.2.2 Wolfspeed Major Business

- 9.2.3 Wolfspeed White LEDs Product and Services
- 9.2.4 Wolfspeed White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Wolfspeed Recent Developments/Updates
- 9.2.6 Wolfspeed Competitive Strengths & Weaknesses
- 9.3 OSRAM Opto Semiconductors GmbH
 - 9.3.1 OSRAM Opto Semiconductors GmbH Details
 - 9.3.2 OSRAM Opto Semiconductors GmbH Major Business
 - 9.3.3 OSRAM Opto Semiconductors GmbH White LEDs Product and Services
 - 9.3.4 OSRAM Opto Semiconductors GmbH White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 OSRAM Opto Semiconductors GmbH Recent Developments/Updates
 - 9.3.6 OSRAM Opto Semiconductors GmbH Competitive Strengths & Weaknesses
- 9.4 Lumileds Holding B.V.
 - 9.4.1 Lumileds Holding B.V. Details
 - 9.4.2 Lumileds Holding B.V. Major Business
 - 9.4.3 Lumileds Holding B.V. White LEDs Product and Services
 - 9.4.4 Lumileds Holding B.V. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Lumileds Holding B.V. Recent Developments/Updates
 - 9.4.6 Lumileds Holding B.V. Competitive Strengths & Weaknesses
- 9.5 Bridgelux, Inc.
 - 9.5.1 Bridgelux, Inc. Details
 - 9.5.2 Bridgelux, Inc. Major Business
 - 9.5.3 Bridgelux, Inc. White LEDs Product and Services
 - 9.5.4 Bridgelux, Inc. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Bridgelux, Inc. Recent Developments/Updates
 - 9.5.6 Bridgelux, Inc. Competitive Strengths & Weaknesses
- 9.6 Samsung LED
 - 9.6.1 Samsung LED Details
 - 9.6.2 Samsung LED Major Business
 - 9.6.3 Samsung LED White LEDs Product and Services
 - 9.6.4 Samsung LED White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Samsung LED Recent Developments/Updates
 - 9.6.6 Samsung LED Competitive Strengths & Weaknesses
- 9.7 Seoul Semiconductor Co., Ltd.
 - 9.7.1 Seoul Semiconductor Co., Ltd. Details

- 9.7.2 Seoul Semiconductor Co., Ltd. Major Business
- 9.7.3 Seoul Semiconductor Co., Ltd. White LEDs Product and Services
- 9.7.4 Seoul Semiconductor Co., Ltd. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Seoul Semiconductor Co., Ltd. Recent Developments/Updates
- 9.7.6 Seoul Semiconductor Co., Ltd. Competitive Strengths & Weaknesses
- 9.8 LG Innotek Co., Ltd.
 - 9.8.1 LG Innotek Co., Ltd. Details
 - 9.8.2 LG Innotek Co., Ltd. Major Business
 - 9.8.3 LG Innotek Co., Ltd. White LEDs Product and Services
 - 9.8.4 LG Innotek Co., Ltd. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 LG Innotek Co., Ltd. Recent Developments/Updates
 - 9.8.6 LG Innotek Co., Ltd. Competitive Strengths & Weaknesses
- 9.9 Toyoda Gosei Co., Ltd.
 - 9.9.1 Toyoda Gosei Co., Ltd. Details
 - 9.9.2 Toyoda Gosei Co., Ltd. Major Business
 - 9.9.3 Toyoda Gosei Co., Ltd. White LEDs Product and Services
 - 9.9.4 Toyoda Gosei Co., Ltd. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Toyoda Gosei Co., Ltd. Recent Developments/Updates
 - 9.9.6 Toyoda Gosei Co., Ltd. Competitive Strengths & Weaknesses
- 9.10 Opto Diode Corporation
 - 9.10.1 Opto Diode Corporation Details
 - 9.10.2 Opto Diode Corporation Major Business
 - 9.10.3 Opto Diode Corporation White LEDs Product and Services
 - 9.10.4 Opto Diode Corporation White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Opto Diode Corporation Recent Developments/Updates
 - 9.10.6 Opto Diode Corporation Competitive Strengths & Weaknesses
- 9.11 SemiLEDs Corporation
 - 9.11.1 SemiLEDs Corporation Details
 - 9.11.2 SemiLEDs Corporation Major Business
 - 9.11.3 SemiLEDs Corporation White LEDs Product and Services
 - 9.11.4 SemiLEDs Corporation White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 SemiLEDs Corporation Recent Developments/Updates
 - 9.11.6 SemiLEDs Corporation Competitive Strengths & Weaknesses
- 9.12 Everlight Electronics Co., Ltd.

- 9.12.1 Everlight Electronics Co., Ltd. Details
- 9.12.2 Everlight Electronics Co., Ltd. Major Business
- 9.12.3 Everlight Electronics Co., Ltd. White LEDs Product and Services
- 9.12.4 Everlight Electronics Co., Ltd. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Everlight Electronics Co., Ltd. Recent Developments/Updates
- 9.12.6 Everlight Electronics Co., Ltd. Competitive Strengths & Weaknesses
- 9.13 Ennostar Inc.
 - 9.13.1 Ennostar Inc. Details
 - 9.13.2 Ennostar Inc. Major Business
 - 9.13.3 Ennostar Inc. White LEDs Product and Services
 - 9.13.4 Ennostar Inc. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Ennostar Inc. Recent Developments/Updates
 - 9.13.6 Ennostar Inc. Competitive Strengths & Weaknesses
- 9.14 Edison Opto Corporation
 - 9.14.1 Edison Opto Corporation Details
 - 9.14.2 Edison Opto Corporation Major Business
 - 9.14.3 Edison Opto Corporation White LEDs Product and Services
 - 9.14.4 Edison Opto Corporation White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Edison Opto Corporation Recent Developments/Updates
 - 9.14.6 Edison Opto Corporation Competitive Strengths & Weaknesses
- 9.15 Sanan Optoelectronics Co., Ltd.
 - 9.15.1 Sanan Optoelectronics Co., Ltd. Details
 - 9.15.2 Sanan Optoelectronics Co., Ltd. Major Business
 - 9.15.3 Sanan Optoelectronics Co., Ltd. White LEDs Product and Services
 - 9.15.4 Sanan Optoelectronics Co., Ltd. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Sanan Optoelectronics Co., Ltd. Recent Developments/Updates
 - 9.15.6 Sanan Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses
- 9.16 HC Semitek Co., Ltd.
 - 9.16.1 HC Semitek Co., Ltd. Details
 - 9.16.2 HC Semitek Co., Ltd. Major Business
 - 9.16.3 HC Semitek Co., Ltd. White LEDs Product and Services
 - 9.16.4 HC Semitek Co., Ltd. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 HC Semitek Co., Ltd. Recent Developments/Updates
 - 9.16.6 HC Semitek Co., Ltd. Competitive Strengths & Weaknesses

9.17 Nationstar Optoelectronics

9.17.1 Nationstar Optoelectronics Details

9.17.2 Nationstar Optoelectronics Major Business

9.17.3 Nationstar Optoelectronics White LEDs Product and Services

9.17.4 Nationstar Optoelectronics White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Nationstar Optoelectronics Recent Developments/Updates

9.17.6 Nationstar Optoelectronics Competitive Strengths & Weaknesses

9.18 Refond Optoelectronics

9.18.1 Refond Optoelectronics Details

9.18.2 Refond Optoelectronics Major Business

9.18.3 Refond Optoelectronics White LEDs Product and Services

9.18.4 Refond Optoelectronics White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Refond Optoelectronics Recent Developments/Updates

9.18.6 Refond Optoelectronics Competitive Strengths & Weaknesses

9.19 Honglitronic Co., Ltd.

9.19.1 Honglitronic Co., Ltd. Details

9.19.2 Honglitronic Co., Ltd. Major Business

9.19.3 Honglitronic Co., Ltd. White LEDs Product and Services

9.19.4 Honglitronic Co., Ltd. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Honglitronic Co., Ltd. Recent Developments/Updates

9.19.6 Honglitronic Co., Ltd. Competitive Strengths & Weaknesses

9.20 Shenzhen Olende Optoelectronics

9.20.1 Shenzhen Olende Optoelectronics Details

9.20.2 Shenzhen Olende Optoelectronics Major Business

9.20.3 Shenzhen Olende Optoelectronics White LEDs Product and Services

9.20.4 Shenzhen Olende Optoelectronics White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Shenzhen Olende Optoelectronics Recent Developments/Updates

9.20.6 Shenzhen Olende Optoelectronics Competitive Strengths & Weaknesses

9.21 Shanghai Epilight Optoelectronics

9.21.1 Shanghai Epilight Optoelectronics Details

9.21.2 Shanghai Epilight Optoelectronics Major Business

9.21.3 Shanghai Epilight Optoelectronics White LEDs Product and Services

9.21.4 Shanghai Epilight Optoelectronics White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 Shanghai Epilight Optoelectronics Recent Developments/Updates

- 9.21.6 Shanghai Epilight Optoelectronics Competitive Strengths & Weaknesses
- 9.22 LEDYi
 - 9.22.1 LEDYi Details
 - 9.22.2 LEDYi Major Business
 - 9.22.3 LEDYi White LEDs Product and Services
 - 9.22.4 LEDYi White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.22.5 LEDYi Recent Developments/Updates
 - 9.22.6 LEDYi Competitive Strengths & Weaknesses
- 9.23 Opto Technology, Inc.
 - 9.23.1 Opto Technology, Inc. Details
 - 9.23.2 Opto Technology, Inc. Major Business
 - 9.23.3 Opto Technology, Inc. White LEDs Product and Services
 - 9.23.4 Opto Technology, Inc. White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.23.5 Opto Technology, Inc. Recent Developments/Updates
 - 9.23.6 Opto Technology, Inc. Competitive Strengths & Weaknesses
- 9.24 ?Guangdong Juhong Optoelectronics Co., Ltd.??
 - 9.24.1 ?Guangdong Juhong Optoelectronics Co., Ltd.?? Details
 - 9.24.2 ?Guangdong Juhong Optoelectronics Co., Ltd.?? Major Business
 - 9.24.3 ?Guangdong Juhong Optoelectronics Co., Ltd.?? White LEDs Product and Services
 - 9.24.4 ?Guangdong Juhong Optoelectronics Co., Ltd.?? White LEDs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 ?Guangdong Juhong Optoelectronics Co., Ltd.?? Recent Developments/Updates
 - 9.24.6 ?Guangdong Juhong Optoelectronics Co., Ltd.?? Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 White LEDs Industry Chain
- 10.2 White LEDs Upstream Analysis
 - 10.2.1 White LEDs Core Raw Materials
 - 10.2.2 Main Manufacturers of White LEDs Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 White LEDs Production Mode
- 10.6 White LEDs Procurement Model

10.7 White LEDs Industry Sales Model and Sales Channels

10.7.1 White LEDs Sales Model

10.7.2 White LEDs Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World White LEDs Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World White LEDs Production Value by Region (2021-2026) & (USD Million)

Table 3. World White LEDs Production Value by Region (2027-2032) & (USD Million)

Table 4. World White LEDs Production Value Market Share by Region (2021-2026)

Table 5. World White LEDs Production Value Market Share by Region (2027-2032)

Table 6. World White LEDs Production by Region (2021-2026) & (K Units)

Table 7. World White LEDs Production by Region (2027-2032) & (K Units)

Table 8. World White LEDs Production Market Share by Region (2021-2026)

Table 9. World White LEDs Production Market Share by Region (2027-2032)

Table 10. World White LEDs Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World White LEDs Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. White LEDs Major Market Trends

Table 13. World White LEDs Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World White LEDs Consumption by Region (2021-2026) & (K Units)

Table 15. World White LEDs Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World White LEDs Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key White LEDs Producers in 2025

Table 18. World White LEDs Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key White LEDs Producers in 2025

Table 20. World White LEDs Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global White LEDs Company Evaluation Quadrant

Table 22. World White LEDs Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and White LEDs Production Site of Key Manufacturer

Table 24. White LEDs Market: Company Product Type Footprint

Table 25. White LEDs Market: Company Product Application Footprint

Table 26. White LEDs Competitive Factors

Table 27. White LEDs New Entrant and Capacity Expansion Plans

Table 28. White LEDs Mergers & Acquisitions Activity

Table 29. United States VS China White LEDs Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China White LEDs Production Comparison, (2021 & 2025 &

2032) & (K Units)

Table 31. United States VS China White LEDs Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based White LEDs Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers White LEDs Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers White LEDs Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers White LEDs Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers White LEDs Production Market Share (2021-2026)

Table 37. China Based White LEDs Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers White LEDs Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers White LEDs Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers White LEDs Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers White LEDs Production Market Share (2021-2026)

Table 42. Rest of World Based White LEDs Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers White LEDs Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers White LEDs Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers White LEDs Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers White LEDs Production Market Share (2021-2026)

Table 47. World White LEDs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World White LEDs Production by Type (2021-2026) & (K Units)

Table 49. World White LEDs Production by Type (2027-2032) & (K Units)

Table 50. World White LEDs Production Value by Type (2021-2026) & (USD Million)

Table 51. World White LEDs Production Value by Type (2027-2032) & (USD Million)

Table 52. World White LEDs Average Price by Type (2021-2026) & (US\$/Unit)

- Table 53. World White LEDs Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World White LEDs Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032
- Table 55. World White LEDs Production by Manufacturing Process (2021-2026) & (K Units)
- Table 56. World White LEDs Production by Manufacturing Process (2027-2032) & (K Units)
- Table 57. World White LEDs Production Value by Manufacturing Process (2021-2026) & (USD Million)
- Table 58. World White LEDs Production Value by Manufacturing Process (2027-2032) & (USD Million)
- Table 59. World White LEDs Average Price by Manufacturing Process (2021-2026) & (US\$/Unit)
- Table 60. World White LEDs Average Price by Manufacturing Process (2027-2032) & (US\$/Unit)
- Table 61. World White LEDs Production Value by Chip Material, (USD Million), 2021 & 2025 & 2032
- Table 62. World White LEDs Production by Chip Material (2021-2026) & (K Units)
- Table 63. World White LEDs Production by Chip Material (2027-2032) & (K Units)
- Table 64. World White LEDs Production Value by Chip Material (2021-2026) & (USD Million)
- Table 65. World White LEDs Production Value by Chip Material (2027-2032) & (USD Million)
- Table 66. World White LEDs Average Price by Chip Material (2021-2026) & (US\$/Unit)
- Table 67. World White LEDs Average Price by Chip Material (2027-2032) & (US\$/Unit)
- Table 68. World White LEDs Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World White LEDs Production by Application (2021-2026) & (K Units)
- Table 70. World White LEDs Production by Application (2027-2032) & (K Units)
- Table 71. World White LEDs Production Value by Application (2021-2026) & (USD Million)
- Table 72. World White LEDs Production Value by Application (2027-2032) & (USD Million)
- Table 73. World White LEDs Average Price by Application (2021-2026) & (US\$/Unit)
- Table 74. World White LEDs Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. Nichia Corporation Basic Information, Manufacturing Base and Competitors
- Table 76. Nichia Corporation Major Business
- Table 77. Nichia Corporation White LEDs Product and Services
- Table 78. Nichia Corporation White LEDs Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nichia Corporation Recent Developments/Updates

Table 80. Nichia Corporation Competitive Strengths & Weaknesses

Table 81. Wolfspeed Basic Information, Manufacturing Base and Competitors

Table 82. Wolfspeed Major Business

Table 83. Wolfspeed White LEDs Product and Services

Table 84. Wolfspeed White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Wolfspeed Recent Developments/Updates

Table 86. Wolfspeed Competitive Strengths & Weaknesses

Table 87. OSRAM Opto Semiconductors GmbH Basic Information, Manufacturing Base and Competitors

Table 88. OSRAM Opto Semiconductors GmbH Major Business

Table 89. OSRAM Opto Semiconductors GmbH White LEDs Product and Services

Table 90. OSRAM Opto Semiconductors GmbH White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. OSRAM Opto Semiconductors GmbH Recent Developments/Updates

Table 92. OSRAM Opto Semiconductors GmbH Competitive Strengths & Weaknesses

Table 93. Lumileds Holding B.V. Basic Information, Manufacturing Base and Competitors

Table 94. Lumileds Holding B.V. Major Business

Table 95. Lumileds Holding B.V. White LEDs Product and Services

Table 96. Lumileds Holding B.V. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Lumileds Holding B.V. Recent Developments/Updates

Table 98. Lumileds Holding B.V. Competitive Strengths & Weaknesses

Table 99. Bridgelux, Inc. Basic Information, Manufacturing Base and Competitors

Table 100. Bridgelux, Inc. Major Business

Table 101. Bridgelux, Inc. White LEDs Product and Services

Table 102. Bridgelux, Inc. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Bridgelux, Inc. Recent Developments/Updates

Table 104. Bridgelux, Inc. Competitive Strengths & Weaknesses

Table 105. Samsung LED Basic Information, Manufacturing Base and Competitors

Table 106. Samsung LED Major Business

Table 107. Samsung LED White LEDs Product and Services

Table 108. Samsung LED White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Samsung LED Recent Developments/Updates

Table 110. Samsung LED Competitive Strengths & Weaknesses

Table 111. Seoul Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Seoul Semiconductor Co., Ltd. Major Business

Table 113. Seoul Semiconductor Co., Ltd. White LEDs Product and Services

Table 114. Seoul Semiconductor Co., Ltd. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Seoul Semiconductor Co., Ltd. Recent Developments/Updates

Table 116. Seoul Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

Table 117. LG Innotek Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. LG Innotek Co., Ltd. Major Business

Table 119. LG Innotek Co., Ltd. White LEDs Product and Services

Table 120. LG Innotek Co., Ltd. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. LG Innotek Co., Ltd. Recent Developments/Updates

Table 122. LG Innotek Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Toyoda Gosei Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Toyoda Gosei Co., Ltd. Major Business

Table 125. Toyoda Gosei Co., Ltd. White LEDs Product and Services

Table 126. Toyoda Gosei Co., Ltd. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Toyoda Gosei Co., Ltd. Recent Developments/Updates

Table 128. Toyoda Gosei Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Opto Diode Corporation Basic Information, Manufacturing Base and Competitors

Table 130. Opto Diode Corporation Major Business

Table 131. Opto Diode Corporation White LEDs Product and Services

Table 132. Opto Diode Corporation White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Opto Diode Corporation Recent Developments/Updates

Table 134. Opto Diode Corporation Competitive Strengths & Weaknesses

Table 135. SemiLEDs Corporation Basic Information, Manufacturing Base and Competitors

Table 136. SemiLEDs Corporation Major Business

Table 137. SemiLEDs Corporation White LEDs Product and Services

- Table 138. SemiLEDs Corporation White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. SemiLEDs Corporation Recent Developments/Updates
- Table 140. SemiLEDs Corporation Competitive Strengths & Weaknesses
- Table 141. Everlight Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 142. Everlight Electronics Co., Ltd. Major Business
- Table 143. Everlight Electronics Co., Ltd. White LEDs Product and Services
- Table 144. Everlight Electronics Co., Ltd. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Everlight Electronics Co., Ltd. Recent Developments/Updates
- Table 146. Everlight Electronics Co., Ltd. Competitive Strengths & Weaknesses
- Table 147. Ennostar Inc. Basic Information, Manufacturing Base and Competitors
- Table 148. Ennostar Inc. Major Business
- Table 149. Ennostar Inc. White LEDs Product and Services
- Table 150. Ennostar Inc. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Ennostar Inc. Recent Developments/Updates
- Table 152. Ennostar Inc. Competitive Strengths & Weaknesses
- Table 153. Edison Opto Corporation Basic Information, Manufacturing Base and Competitors
- Table 154. Edison Opto Corporation Major Business
- Table 155. Edison Opto Corporation White LEDs Product and Services
- Table 156. Edison Opto Corporation White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Edison Opto Corporation Recent Developments/Updates
- Table 158. Edison Opto Corporation Competitive Strengths & Weaknesses
- Table 159. Sanan Optoelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 160. Sanan Optoelectronics Co., Ltd. Major Business
- Table 161. Sanan Optoelectronics Co., Ltd. White LEDs Product and Services
- Table 162. Sanan Optoelectronics Co., Ltd. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Sanan Optoelectronics Co., Ltd. Recent Developments/Updates
- Table 164. Sanan Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses
- Table 165. HC Semitek Co., Ltd. Basic Information, Manufacturing Base and Competitors

- Table 166. HC Semitek Co., Ltd. Major Business
- Table 167. HC Semitek Co., Ltd. White LEDs Product and Services
- Table 168. HC Semitek Co., Ltd. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. HC Semitek Co., Ltd. Recent Developments/Updates
- Table 170. HC Semitek Co., Ltd. Competitive Strengths & Weaknesses
- Table 171. Nationstar Optoelectronics Basic Information, Manufacturing Base and Competitors
- Table 172. Nationstar Optoelectronics Major Business
- Table 173. Nationstar Optoelectronics White LEDs Product and Services
- Table 174. Nationstar Optoelectronics White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Nationstar Optoelectronics Recent Developments/Updates
- Table 176. Nationstar Optoelectronics Competitive Strengths & Weaknesses
- Table 177. Refond Optoelectronics Basic Information, Manufacturing Base and Competitors
- Table 178. Refond Optoelectronics Major Business
- Table 179. Refond Optoelectronics White LEDs Product and Services
- Table 180. Refond Optoelectronics White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Refond Optoelectronics Recent Developments/Updates
- Table 182. Refond Optoelectronics Competitive Strengths & Weaknesses
- Table 183. Honglitrionic Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 184. Honglitrionic Co., Ltd. Major Business
- Table 185. Honglitrionic Co., Ltd. White LEDs Product and Services
- Table 186. Honglitrionic Co., Ltd. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. Honglitrionic Co., Ltd. Recent Developments/Updates
- Table 188. Honglitrionic Co., Ltd. Competitive Strengths & Weaknesses
- Table 189. Shenzhen Olende Optoelectronics Basic Information, Manufacturing Base and Competitors
- Table 190. Shenzhen Olende Optoelectronics Major Business
- Table 191. Shenzhen Olende Optoelectronics White LEDs Product and Services
- Table 192. Shenzhen Olende Optoelectronics White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. Shenzhen Olende Optoelectronics Recent Developments/Updates

Table 194. Shenzhen Olende Optoelectronics Competitive Strengths & Weaknesses

Table 195. Shanghai Epilight Optoelectronics Basic Information, Manufacturing Base and Competitors

Table 196. Shanghai Epilight Optoelectronics Major Business

Table 197. Shanghai Epilight Optoelectronics White LEDs Product and Services

Table 198. Shanghai Epilight Optoelectronics White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Shanghai Epilight Optoelectronics Recent Developments/Updates

Table 200. Shanghai Epilight Optoelectronics Competitive Strengths & Weaknesses

Table 201. LEDYi Basic Information, Manufacturing Base and Competitors

Table 202. LEDYi Major Business

Table 203. LEDYi White LEDs Product and Services

Table 204. LEDYi White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. LEDYi Recent Developments/Updates

Table 206. LEDYi Competitive Strengths & Weaknesses

Table 207. Opto Technology, Inc. Basic Information, Manufacturing Base and Competitors

Table 208. Opto Technology, Inc. Major Business

Table 209. Opto Technology, Inc. White LEDs Product and Services

Table 210. Opto Technology, Inc. White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Opto Technology, Inc. Recent Developments/Updates

Table 212. Opto Technology, Inc. Competitive Strengths & Weaknesses

Table 213. ?Guangdong Juhong Optoelectronics Co., Ltd.?? Basic Information, Manufacturing Base and Competitors

Table 214. ?Guangdong Juhong Optoelectronics Co., Ltd.?? Major Business

Table 215. ?Guangdong Juhong Optoelectronics Co., Ltd.?? White LEDs Product and Services

Table 216. ?Guangdong Juhong Optoelectronics Co., Ltd.?? White LEDs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. ?Guangdong Juhong Optoelectronics Co., Ltd.?? Recent Developments/Updates

Table 218. ?Guangdong Juhong Optoelectronics Co., Ltd.?? Competitive Strengths & Weaknesses

Table 219. Global Key Players of White LEDs Upstream (Raw Materials)

Table 220. Global White LEDs Typical Customers

Table 221. White LEDs Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. White LEDs Picture

Figure 2. World White LEDs Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World White LEDs Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World White LEDs Production (2021-2032) & (K Units)

Figure 5. World White LEDs Average Price (2021-2032) & (US\$/Unit)

Figure 6. World White LEDs Production Value Market Share by Region (2021-2032)

Figure 7. World White LEDs Production Market Share by Region (2021-2032)

Figure 8. North America White LEDs Production (2021-2032) & (K Units)

Figure 9. Europe White LEDs Production (2021-2032) & (K Units)

Figure 10. China White LEDs Production (2021-2032) & (K Units)

Figure 11. Japan White LEDs Production (2021-2032) & (K Units)

Figure 12. South Korea White LEDs Production (2021-2032) & (K Units)

Figure 13. China Taiwan White LEDs Production (2021-2032) & (K Units)

Figure 14. White LEDs Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World White LEDs Consumption (2021-2032) & (K Units)

Figure 17. World White LEDs Consumption Market Share by Region (2021-2032)

Figure 18. United States White LEDs Consumption (2021-2032) & (K Units)

Figure 19. China White LEDs Consumption (2021-2032) & (K Units)

Figure 20. Europe White LEDs Consumption (2021-2032) & (K Units)

Figure 21. Japan White LEDs Consumption (2021-2032) & (K Units)

Figure 22. South Korea White LEDs Consumption (2021-2032) & (K Units)

Figure 23. ASEAN White LEDs Consumption (2021-2032) & (K Units)

Figure 24. India White LEDs Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of White LEDs by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for White LEDs Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for White LEDs Markets in 2025

Figure 28. United States VS China: White LEDs Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: White LEDs Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: White LEDs Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers White LEDs Production Market Share 2025

Figure 32. China Based Manufacturers White LEDs Production Market Share 2025

Figure 33. Rest of World Based Manufacturers White LEDs Production Market Share 2025

Figure 34. World White LEDs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World White LEDs Production Value Market Share by Type in 2025

Figure 36. Cool Light

Figure 37. Warm Light

Figure 38. World White LEDs Production Market Share by Type (2021-2032)

Figure 39. World White LEDs Production Value Market Share by Type (2021-2032)

Figure 40. World White LEDs Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World White LEDs Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 42. World White LEDs Production Value Market Share by Manufacturing Process in 2025

Figure 43. Epitaxial LED Chip

Figure 44. SMD LED

Figure 45. COB LED

Figure 46. Flip-Chip LED

Figure 47. World White LEDs Production Market Share by Manufacturing Process (2021-2032)

Figure 48. World White LEDs Production Value Market Share by Manufacturing Process (2021-2032)

Figure 49. World White LEDs Average Price by Manufacturing Process (2021-2032) & (US\$/Unit)

Figure 50. World White LEDs Production Value by Chip Material, (USD Million), 2021 & 2025 & 2032

Figure 51. World White LEDs Production Value Market Share by Chip Material in 2025

Figure 52. GaN LED

Figure 53. InGaN LED

Figure 54. AlGaInP LED

Figure 55. Silicon LED(Si LED)

Figure 56. World White LEDs Production Market Share by Chip Material (2021-2032)

Figure 57. World White LEDs Production Value Market Share by Chip Material (2021-2032)

Figure 58. World White LEDs Average Price by Chip Material (2021-2032) & (US\$/Unit)

Figure 59. World White LEDs Production Value by Application, (USD Million), 2021 &

2025 & 2032

Figure 60. World White LEDs Production Value Market Share by Application in 2025

Figure 61. Consumer Electronics

Figure 62. General Lighting

Figure 63. Automotive

Figure 64. Others

Figure 65. World White LEDs Production Market Share by Application (2021-2032)

Figure 66. World White LEDs Production Value Market Share by Application (2021-2032)

Figure 67. World White LEDs Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. White LEDs Industry Chain

Figure 69. White LEDs Procurement Model

Figure 70. White LEDs Sales Model

Figure 71. White LEDs Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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