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Global Single-color High Power LEDs Market Growth 2025-2031

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Abstracts

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The global Single-color High Power LEDs market size is predicted to grow from US$ 2028 million in 2025 to US$ 2528 million in 2031; it is expected to grow at a CAGR of 3.7% from 2025 to 2031.

The Single-color High Power LEDs market has experienced remarkable growth and evolution in recent years, driven by advancements in solid-state lighting technology and a surge in demand for efficient and versatile lighting solutions. These high power LEDs, distinguished by their ability to emit light in a specific wavelength range, have found widespread applications across various industries such as automotive, aerospace, consumer electronics, and general lighting. The market's expansion is primarily fueled by the rising adoption of energy-efficient lighting systems, stringent government regulations promoting eco-friendly solutions, and the growing awareness of sustainable practices among consumers and businesses alike. As manufacturers continue to improve the luminous efficacy, thermal management, and overall performance of single-color high power LEDs, the market is witnessing increased product innovation and competitive intensity. Additionally, the integration of Internet of Things (IoT) capabilities and smart lighting features has further bolstered the appeal of these LEDs, catering to the demands of smart cities and smart buildings. However, challenges persist in terms of cost competitiveness compared to conventional lighting options, and efforts are being made to address these concerns through research and development endeavors. Overall, the Single-color High Power LEDs market is poised for a promising future, driven by advancements in technology, widening application areas, and the global commitment to sustainable lighting solutions.

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LP Information, Inc. (LPI) ' newest research report, the “Single-color High Power LEDs Industry Forecast” looks at past sales and reviews total world Single-color High Power LEDs sales in 2024, providing a comprehensive analysis by region and market sector of projected Single-color High Power LEDs sales for 2025 through 2031. With Single-color High Power LEDs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Single-color High Power LEDs industry.

This Insight Report provides a comprehensive analysis of the global Single-color High Power LEDs 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 Single-color High Power LEDs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Single-color High Power LEDs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-color High Power LEDs 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 Single-color High Power LEDs.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-color High Power LEDs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

1W High Power LEDs

3W High Power LEDs

5W High Power LEDs

Others

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Segmentation by Application:

- Automotive
- Consumer Electronics
- Industrial Automation
- Medical
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia

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- 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.

- ams OSRAM
- Lite-On
- BIVAR
- Lumex
- Broadcom

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Cree LED

Everlight

Lumileds

Inolux

TT Electronics

Luminus Devices

Marktech Optoelectronics

Apem

New Energy

Vishay

Stanley Electric

Wurth Elektronik

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-color High Power LEDs market?

What factors are driving Single-color High Power LEDs market growth, globally and by region?

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

How do Single-color High Power LEDs market opportunities vary by end market size?

How does Single-color High Power LEDs break out by Type, by Application?

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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 Multi-color High Power LEDs Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Multi-color High Power LEDs by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Multi-color High Power LEDs by Country/Region, 2020, 2024 & 2031
2.2 Multi-color High Power LEDs Segment by Type
  2.2.1 1W High Power LEDs
  2.2.2 3W High Power LEDs
  2.2.3 5W High Power LEDs
  2.2.4 Others
2.3 Multi-color High Power LEDs Sales by Type
  2.3.1 Global Multi-color High Power LEDs Sales Market Share by Type (2020-2025)
  2.3.2 Global Multi-color High Power LEDs Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Multi-color High Power LEDs Sale Price by Type (2020-2025)
2.4 Multi-color High Power LEDs Segment by Application
  2.4.1 Automotive
  2.4.2 Consumer Electronics
  2.4.3 Industrial Automation
  2.4.4 Medical
  2.4.5 Others
2.5 Multi-color High Power LEDs Sales by Application
  2.5.1 Global Multi-color High Power LEDs Sale Market Share by Application

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(2020-2025)
2.5.2 Global Multi-color High Power LEDs Revenue and Market Share by Application (2020-2025)
2.5.3 Global Multi-color High Power LEDs Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Multi-color High Power LEDs Breakdown Data by Company
3.1.1 Global Multi-color High Power LEDs Annual Sales by Company (2020-2025)
3.1.2 Global Multi-color High Power LEDs Sales Market Share by Company (2020-2025)
3.2 Global Multi-color High Power LEDs Annual Revenue by Company (2020-2025)
3.2.1 Global Multi-color High Power LEDs Revenue by Company (2020-2025)
3.2.2 Global Multi-color High Power LEDs Revenue Market Share by Company (2020-2025)
3.3 Global Multi-color High Power LEDs Sale Price by Company
3.4 Key Manufacturers Multi-color High Power LEDs Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Multi-color High Power LEDs Product Location Distribution
3.4.2 Players Multi-color High Power LEDs 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 MULTI-COLOR HIGH POWER LEDS BY GEOGRAPHIC REGION

4.1 World Historic Multi-color High Power LEDs Market Size by Geographic Region (2020-2025)
4.1.1 Global Multi-color High Power LEDs Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Multi-color High Power LEDs Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic Multi-color High Power LEDs Market Size by Country/Region (2020-2025)
4.2.1 Global Multi-color High Power LEDs Annual Sales by Country/Region (2020-2025)

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4.2.2 Global Multi-color High Power LEDs Annual Revenue by Country/Region (2020-2025)
4.3 Americas Multi-color High Power LEDs Sales Growth
4.4 APAC Multi-color High Power LEDs Sales Growth
4.5 Europe Multi-color High Power LEDs Sales Growth
4.6 Middle East & Africa Multi-color High Power LEDs Sales Growth

5 AMERICAS

5.1 Americas Multi-color High Power LEDs Sales by Country
5.1.1 Americas Multi-color High Power LEDs Sales by Country (2020-2025)
5.1.2 Americas Multi-color High Power LEDs Revenue by Country (2020-2025)
5.2 Americas Multi-color High Power LEDs Sales by Type (2020-2025)
5.3 Americas Multi-color High Power LEDs Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Multi-color High Power LEDs Sales by Region
6.1.1 APAC Multi-color High Power LEDs Sales by Region (2020-2025)
6.1.2 APAC Multi-color High Power LEDs Revenue by Region (2020-2025)
6.2 APAC Multi-color High Power LEDs Sales by Type (2020-2025)
6.3 APAC Multi-color High Power LEDs 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 Multi-color High Power LEDs by Country
7.1.1 Europe Multi-color High Power LEDs Sales by Country (2020-2025)
7.1.2 Europe Multi-color High Power LEDs Revenue by Country (2020-2025)

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7.2 Europe Multi-color High Power LEDs Sales by Type (2020-2025)
7.3 Europe Multi-color High Power LEDs 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 Multi-color High Power LEDs by Country
  8.1.1 Middle East & Africa Multi-color High Power LEDs Sales by Country (2020-2025)
  8.1.2 Middle East & Africa Multi-color High Power LEDs Revenue by Country (2020-2025)
8.2 Middle East & Africa Multi-color High Power LEDs Sales by Type (2020-2025)
8.3 Middle East & Africa Multi-color High Power LEDs 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 Multi-color High Power LEDs
10.3 Manufacturing Process Analysis of Multi-color High Power LEDs
10.4 Industry Chain Structure of Multi-color High Power LEDs

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels

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11.1.2 Indirect Channels
11.2 Multi-color High Power LEDs Distributors
11.3 Multi-color High Power LEDs Customer

12 WORLD FORECAST REVIEW FOR MULTI-COLOR HIGH POWER LEDS BY GEOGRAPHIC REGION

12.1 Global Multi-color High Power LEDs Market Size Forecast by Region
12.1.1 Global Multi-color High Power LEDs Forecast by Region (2026-2031)
12.1.2 Global Multi-color High Power LEDs 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 Multi-color High Power LEDs Forecast by Type (2026-2031)
12.7 Global Multi-color High Power LEDs Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 ams OSRAM
13.1.1 ams OSRAM Company Information
13.1.2 ams OSRAM Multi-color High Power LEDs Product Portfolios and Specifications
13.1.3 ams OSRAM Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.1.4 ams OSRAM Main Business Overview
13.1.5 ams OSRAM Latest Developments
13.2 Lite-On
13.2.1 Lite-On Company Information
13.2.2 Lite-On Multi-color High Power LEDs Product Portfolios and Specifications
13.2.3 Lite-On Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 Lite-On Main Business Overview
13.2.5 Lite-On Latest Developments
13.3 BIVAR
13.3.1 BIVAR Company Information
13.3.2 BIVAR Multi-color High Power LEDs Product Portfolios and Specifications
13.3.3 BIVAR Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin

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(2020-2025)
13.3.4 BIVAR Main Business Overview
13.3.5 BIVAR Latest Developments
13.4 Lumex
13.4.1 Lumex Company Information
13.4.2 Lumex Multi-color High Power LEDs Product Portfolios and Specifications
13.4.3 Lumex Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Lumex Main Business Overview
13.4.5 Lumex Latest Developments
13.5 Broadcom
13.5.1 Broadcom Company Information
13.5.2 Broadcom Multi-color High Power LEDs Product Portfolios and Specifications
13.5.3 Broadcom Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 Broadcom Main Business Overview
13.5.5 Broadcom Latest Developments
13.6 Cree LED
13.6.1 Cree LED Company Information
13.6.2 Cree LED Multi-color High Power LEDs Product Portfolios and Specifications
13.6.3 Cree LED Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 Cree LED Main Business Overview
13.6.5 Cree LED Latest Developments
13.7 Everlight
13.7.1 Everlight Company Information
13.7.2 Everlight Multi-color High Power LEDs Product Portfolios and Specifications
13.7.3 Everlight Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Everlight Main Business Overview
13.7.5 Everlight Latest Developments
13.8 Lumileds
13.8.1 Lumileds Company Information
13.8.2 Lumileds Multi-color High Power LEDs Product Portfolios and Specifications
13.8.3 Lumileds Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Lumileds Main Business Overview
13.8.5 Lumileds Latest Developments
13.9 Inolux

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13.9.1 Inolux Company Information
13.9.2 Inolux Multi-color High Power LEDs Product Portfolios and Specifications
13.9.3 Inolux Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 Inolux Main Business Overview
13.9.5 Inolux Latest Developments
13.10 TT Electronics
13.10.1 TT Electronics Company Information
13.10.2 TT Electronics Multi-color High Power LEDs Product Portfolios and Specifications
13.10.3 TT Electronics Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 TT Electronics Main Business Overview
13.10.5 TT Electronics Latest Developments
13.11 Luminus Devices
13.11.1 Luminus Devices Company Information
13.11.2 Luminus Devices Multi-color High Power LEDs Product Portfolios and Specifications
13.11.3 Luminus Devices Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.11.4 Luminus Devices Main Business Overview
13.11.5 Luminus Devices Latest Developments
13.12 Marktech Optoelectronics
13.12.1 Marktech Optoelectronics Company Information
13.12.2 Marktech Optoelectronics Multi-color High Power LEDs Product Portfolios and Specifications
13.12.3 Marktech Optoelectronics Multi-color High Power LEDs Sales, Revenue, Price and Gross Margin (2020-2025)
13.12.4 Marktech Optoelectronics Main Business Overview
13.12.5 Marktech Optoelectronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. Single-color High Power LEDs Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Single-color High Power LEDs Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of 1W High Power LEDs
Table 4. Major Players of 3W High Power LEDs
Table 5. Major Players of 5W High Power LEDs
Table 6. Major Players of Others
Table 7. Global Single-color High Power LEDs Sales by Type (2020-2025) & (K Units)
Table 8. Global Single-color High Power LEDs Sales Market Share by Type (2020-2025)
Table 9. Global Single-color High Power LEDs Revenue by Type (2020-2025) & ($ million)
Table 10. Global Single-color High Power LEDs Revenue Market Share by Type (2020-2025)
Table 11. Global Single-color High Power LEDs Sale Price by Type (2020-2025) & (US$/Unit)
Table 12. Global Single-color High Power LEDs Sale by Application (2020-2025) & (K Units)
Table 13. Global Single-color High Power LEDs Sale Market Share by Application (2020-2025)
Table 14. Global Single-color High Power LEDs Revenue by Application (2020-2025) & ($ million)
Table 15. Global Single-color High Power LEDs Revenue Market Share by Application (2020-2025)
Table 16. Global Single-color High Power LEDs Sale Price by Application (2020-2025) & (US$/Unit)
Table 17. Global Single-color High Power LEDs Sales by Company (2020-2025) & (K Units)
Table 18. Global Single-color High Power LEDs Sales Market Share by Company (2020-2025)
Table 19. Global Single-color High Power LEDs Revenue by Company (2020-2025) & ($ millions)
Table 20. Global Single-color High Power LEDs Revenue Market Share by Company (2020-2025)

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Table 21. Global Single-color High Power LEDs Sale Price by Company (2020-2025) & (US$/Unit)
Table 22. Key Manufacturers Single-color High Power LEDs Producing Area Distribution and Sales Area
Table 23. Players Single-color High Power LEDs Products Offered
Table 24. Single-color High Power LEDs Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 25. New Products and Potential Entrants
Table 26. Market M&A Activity & Strategy
Table 27. Global Single-color High Power LEDs Sales by Geographic Region (2020-2025) & (K Units)
Table 28. Global Single-color High Power LEDs Sales Market Share Geographic Region (2020-2025)
Table 29. Global Single-color High Power LEDs Revenue by Geographic Region (2020-2025) & ($ millions)
Table 30. Global Single-color High Power LEDs Revenue Market Share by Geographic Region (2020-2025)
Table 31. Global Single-color High Power LEDs Sales by Country/Region (2020-2025) & (K Units)
Table 32. Global Single-color High Power LEDs Sales Market Share by Country/Region (2020-2025)
Table 33. Global Single-color High Power LEDs Revenue by Country/Region (2020-2025) & ($ millions)
Table 34. Global Single-color High Power LEDs Revenue Market Share by Country/Region (2020-2025)
Table 35. Americas Single-color High Power LEDs Sales by Country (2020-2025) & (K Units)
Table 36. Americas Single-color High Power LEDs Sales Market Share by Country (2020-2025)
Table 37. Americas Single-color High Power LEDs Revenue by Country (2020-2025) & ($ millions)
Table 38. Americas Single-color High Power LEDs Sales by Type (2020-2025) & (K Units)
Table 39. Americas Single-color High Power LEDs Sales by Application (2020-2025) & (K Units)
Table 40. APAC Single-color High Power LEDs Sales by Region (2020-2025) & (K Units)
Table 41. APAC Single-color High Power LEDs Sales Market Share by Region (2020-2025)

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Table 42. APAC Single-color High Power LEDs Revenue by Region (2020-2025) & ($ millions)
Table 43. APAC Single-color High Power LEDs Sales by Type (2020-2025) & (K Units)
Table 44. APAC Single-color High Power LEDs Sales by Application (2020-2025) & (K Units)
Table 45. Europe Single-color High Power LEDs Sales by Country (2020-2025) & (K Units)
Table 46. Europe Single-color High Power LEDs Revenue by Country (2020-2025) & ($ millions)
Table 47. Europe Single-color High Power LEDs Sales by Type (2020-2025) & (K Units)
Table 48. Europe Single-color High Power LEDs Sales by Application (2020-2025) & (K Units)
Table 49. Middle East & Africa Single-color High Power LEDs Sales by Country (2020-2025) & (K Units)
Table 50. Middle East & Africa Single-color High Power LEDs Revenue Market Share by Country (2020-2025)
Table 51. Middle East & Africa Single-color High Power LEDs Sales by Type (2020-2025) & (K Units)
Table 52. Middle East & Africa Single-color High Power LEDs Sales by Application (2020-2025) & (K Units)
Table 53. Key Market Drivers & Growth Opportunities of Single-color High Power LEDs
Table 54. Key Market Challenges & Risks of Single-color High Power LEDs
Table 55. Key Industry Trends of Single-color High Power LEDs
Table 56. Single-color High Power LEDs Raw Material
Table 57. Key Suppliers of Raw Materials
Table 58. Single-color High Power LEDs Distributors List
Table 59. Single-color High Power LEDs Customer List
Table 60. Global Single-color High Power LEDs Sales Forecast by Region (2026-2031) & (K Units)
Table 61. Global Single-color High Power LEDs Revenue Forecast by Region (2026-2031) & ($ millions)
Table 62. Americas Single-color High Power LEDs Sales Forecast by Country (2026-2031) & (K Units)
Table 63. Americas Single-color High Power LEDs Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 64. APAC Single-color High Power LEDs Sales Forecast by Region (2026-2031) & (K Units)
Table 65. APAC Single-color High Power LEDs Annual Revenue Forecast by Region (2026-2031) & ($ millions)

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Table 66. Europe Single-color High Power LEDs Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Europe Single-color High Power LEDs Revenue Forecast by Country (2026-2031) & ($ millions)
Table 68. Middle East & Africa Single-color High Power LEDs Sales Forecast by Country (2026-2031) & (K Units)
Table 69. Middle East & Africa Single-color High Power LEDs Revenue Forecast by Country (2026-2031) & ($ millions)
Table 70. Global Single-color High Power LEDs Sales Forecast by Type (2026-2031) & (K Units)
Table 71. Global Single-color High Power LEDs Revenue Forecast by Type (2026-2031) & ($ millions)
Table 72. Global Single-color High Power LEDs Sales Forecast by Application (2026-2031) & (K Units)
Table 73. Global Single-color High Power LEDs Revenue Forecast by Application (2026-2031) & ($ millions)
Table 74. ams OSRAM Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 75. ams OSRAM Single-color High Power LEDs Product Portfolios and Specifications
Table 76. ams OSRAM Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 77. ams OSRAM Main Business
Table 78. ams OSRAM Latest Developments
Table 79. Lite-On Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 80. Lite-On Single-color High Power LEDs Product Portfolios and Specifications
Table 81. Lite-On Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 82. Lite-On Main Business
Table 83. Lite-On Latest Developments
Table 84. BIVAR Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 85. BIVAR Single-color High Power LEDs Product Portfolios and Specifications
Table 86. BIVAR Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 87. BIVAR Main Business
Table 88. BIVAR Latest Developments
Table 89. Lumex Basic Information, Single-color High Power LEDs Manufacturing Base,

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info@marketpublishers.com

Sales Area and Its Competitors
Table 90. Lumex Single-color High Power LEDs Product Portfolios and Specifications
Table 91. Lumex Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 92. Lumex Main Business
Table 93. Lumex Latest Developments
Table 94. Broadcom Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 95. Broadcom Single-color High Power LEDs Product Portfolios and Specifications
Table 96. Broadcom Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 97. Broadcom Main Business
Table 98. Broadcom Latest Developments
Table 99. Cree LED Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 100. Cree LED Single-color High Power LEDs Product Portfolios and Specifications
Table 101. Cree LED Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 102. Cree LED Main Business
Table 103. Cree LED Latest Developments
Table 104. Everlight Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 105. Everlight Single-color High Power LEDs Product Portfolios and Specifications
Table 106. Everlight Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 107. Everlight Main Business
Table 108. Everlight Latest Developments
Table 109. Lumileds Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 110. Lumileds Single-color High Power LEDs Product Portfolios and Specifications
Table 111. Lumileds Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 112. Lumileds Main Business
Table 113. Lumileds Latest Developments
Table 114. Inolux Basic Information, Single-color High Power LEDs Manufacturing

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Base, Sales Area and Its Competitors
Table 115. Inolux Single-color High Power LEDs Product Portfolios and Specifications
Table 116. Inolux Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 117. Inolux Main Business
Table 118. Inolux Latest Developments
Table 119. TT Electronics Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 120. TT Electronics Single-color High Power LEDs Product Portfolios and Specifications
Table 121. TT Electronics Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 122. TT Electronics Main Business
Table 123. TT Electronics Latest Developments
Table 124. Luminus Devices Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 125. Luminus Devices Single-color High Power LEDs Product Portfolios and Specifications
Table 126. Luminus Devices Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 127. Luminus Devices Main Business
Table 128. Luminus Devices Latest Developments
Table 129. Marktech Optoelectronics Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 130. Marktech Optoelectronics Single-color High Power LEDs Product Portfolios and Specifications
Table 131. Marktech Optoelectronics Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 132. Marktech Optoelectronics Main Business
Table 133. Marktech Optoelectronics Latest Developments
Table 134. Apem Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 135. Apem Single-color High Power LEDs Product Portfolios and Specifications
Table 136. Apem Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 137. Apem Main Business
Table 138. Apem Latest Developments
Table 139. New Energy Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors

+357 96 030922
info@marketpublishers.com

Table 140. New Energy Single-color High Power LEDs Product Portfolios and Specifications
Table 141. New Energy Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 142. New Energy Main Business
Table 143. New Energy Latest Developments
Table 144. Vishay Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 145. Vishay Single-color High Power LEDs Product Portfolios and Specifications
Table 146. Vishay Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 147. Vishay Main Business
Table 148. Vishay Latest Developments
Table 149. Stanley Electric Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 150. Stanley Electric Single-color High Power LEDs Product Portfolios and Specifications
Table 151. Stanley Electric Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 152. Stanley Electric Main Business
Table 153. Stanley Electric Latest Developments
Table 154. Wurth Elektronik Basic Information, Single-color High Power LEDs Manufacturing Base, Sales Area and Its Competitors
Table 155. Wurth Elektronik Single-color High Power LEDs Product Portfolios and Specifications
Table 156. Wurth Elektronik Single-color High Power LEDs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 157. Wurth Elektronik Main Business
Table 158. Wurth Elektronik Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Single-color High Power LEDs
Figure 2. Single-color High Power LEDs Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Single-color High Power LEDs Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Single-color High Power LEDs Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Single-color High Power LEDs Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Single-color High Power LEDs Sales Market Share by Country/Region (2024)
Figure 10. Single-color High Power LEDs Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of 1W High Power LEDs
Figure 12. Product Picture of 3W High Power LEDs
Figure 13. Product Picture of 5W High Power LEDs
Figure 14. Product Picture of Others
Figure 15. Global Single-color High Power LEDs Sales Market Share by Type in 2025
Figure 16. Global Single-color High Power LEDs Revenue Market Share by Type (2020-2025)
Figure 17. Single-color High Power LEDs Consumed in Automotive
Figure 18. Global Single-color High Power LEDs Market: Automotive (2020-2025) & (K Units)
Figure 19. Single-color High Power LEDs Consumed in Consumer Electronics
Figure 20. Global Single-color High Power LEDs Market: Consumer Electronics (2020-2025) & (K Units)
Figure 21. Single-color High Power LEDs Consumed in Industrial Automation
Figure 22. Global Single-color High Power LEDs Market: Industrial Automation (2020-2025) & (K Units)
Figure 23. Single-color High Power LEDs Consumed in Medical
Figure 24. Global Single-color High Power LEDs Market: Medical (2020-2025) & (K Units)
Figure 25. Single-color High Power LEDs Consumed in Others
Figure 26. Global Single-color High Power LEDs Market: Others (2020-2025) & (K Units)

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Figure 27. Global Single-color High Power LEDs Sale Market Share by Application (2024)
Figure 28. Global Single-color High Power LEDs Revenue Market Share by Application in 2025
Figure 29. Single-color High Power LEDs Sales by Company in 2025 (K Units)
Figure 30. Global Single-color High Power LEDs Sales Market Share by Company in 2025
Figure 31. Single-color High Power LEDs Revenue by Company in 2025 ($ millions)
Figure 32. Global Single-color High Power LEDs Revenue Market Share by Company in 2025
Figure 33. Global Single-color High Power LEDs Sales Market Share by Geographic Region (2020-2025)
Figure 34. Global Single-color High Power LEDs Revenue Market Share by Geographic Region in 2025
Figure 35. Americas Single-color High Power LEDs Sales 2020-2025 (K Units)
Figure 36. Americas Single-color High Power LEDs Revenue 2020-2025 ($ millions)
Figure 37. APAC Single-color High Power LEDs Sales 2020-2025 (K Units)
Figure 38. APAC Single-color High Power LEDs Revenue 2020-2025 ($ millions)
Figure 39. Europe Single-color High Power LEDs Sales 2020-2025 (K Units)
Figure 40. Europe Single-color High Power LEDs Revenue 2020-2025 ($ millions)
Figure 41. Middle East & Africa Single-color High Power LEDs Sales 2020-2025 (K Units)
Figure 42. Middle East & Africa Single-color High Power LEDs Revenue 2020-2025 ($ millions)
Figure 43. Americas Single-color High Power LEDs Sales Market Share by Country in 2025
Figure 44. Americas Single-color High Power LEDs Revenue Market Share by Country (2020-2025)
Figure 45. Americas Single-color High Power LEDs Sales Market Share by Type (2020-2025)
Figure 46. Americas Single-color High Power LEDs Sales Market Share by Application (2020-2025)
Figure 47. United States Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 48. Canada Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 49. Mexico Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 50. Brazil Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)

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Figure 51. APAC Single-color High Power LEDs Sales Market Share by Region in 2025
Figure 52. APAC Single-color High Power LEDs Revenue Market Share by Region (2020-2025)
Figure 53. APAC Single-color High Power LEDs Sales Market Share by Type (2020-2025)
Figure 54. APAC Single-color High Power LEDs Sales Market Share by Application (2020-2025)
Figure 55. China Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 56. Japan Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 57. South Korea Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 58. Southeast Asia Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 59. India Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 60. Australia Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 61. China Taiwan Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 62. Europe Single-color High Power LEDs Sales Market Share by Country in 2025
Figure 63. Europe Single-color High Power LEDs Revenue Market Share by Country (2020-2025)
Figure 64. Europe Single-color High Power LEDs Sales Market Share by Type (2020-2025)
Figure 65. Europe Single-color High Power LEDs Sales Market Share by Application (2020-2025)
Figure 66. Germany Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 67. France Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 68. UK Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 69. Italy Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 70. Russia Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 71. Middle East & Africa Single-color High Power LEDs Sales Market Share by Country (2020-2025)
Figure 72. Middle East & Africa Single-color High Power LEDs Sales Market Share by

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Type (2020-2025)
Figure 73. Middle East & Africa Single-color High Power LEDs Sales Market Share by Application (2020-2025)
Figure 74. Egypt Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 75. South Africa Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 76. Israel Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 77. Turkey Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 78. GCC Countries Single-color High Power LEDs Revenue Growth 2020-2025 ($ millions)
Figure 79. Manufacturing Cost Structure Analysis of Single-color High Power LEDs in 2025
Figure 80. Manufacturing Process Analysis of Single-color High Power LEDs
Figure 81. Industry Chain Structure of Single-color High Power LEDs
Figure 82. Channels of Distribution
Figure 83. Global Single-color High Power LEDs Sales Market Forecast by Region (2026-2031)
Figure 84. Global Single-color High Power LEDs Revenue Market Share Forecast by Region (2026-2031)
Figure 85. Global Single-color High Power LEDs Sales Market Share Forecast by Type (2026-2031)
Figure 86. Global Single-color High Power LEDs Revenue Market Share Forecast by Type (2026-2031)
Figure 87. Global Single-color High Power LEDs Sales Market Share Forecast by Application (2026-2031)
Figure 88. Global Single-color High Power LEDs Revenue Market Share Forecast by Application (2026-2031)

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