

Arc-based Plasma Lighting Market by Light Source (Xenon Arc Lamps, Metal Halide Lamps, Deuterium Lamps, Krypton Arc Lamps, Mercury Vapor Lamps), Wattage Type (Below 500 W, 501 to 1500 W, Above 1500 W), Application and Region - Global Forecast to 2029

<https://marketpublishers.com/r/A1F49A584026EN.html>

Date: April 2024

Pages: 232

Price: US\$ 4,950.00 (Single User License)

ID: A1F49A584026EN

Abstracts

The global arc-based plasma lighting market is projected to grow from USD 616 million in 2024 to USD 676 million by 2029, registering a CAGR of 1.9% during the forecast period. The arc-based plasma lighting market is driven by several key factors that contribute to its growing adoption across diverse industries. Its superior light quality, characterized by excellent color rendering capabilities and high brightness, makes it a preferred choice for applications where precise illumination is paramount, such as automotive lighting, medical lighting, and UV applications.

“The xenon arc lamps segment is expected to hold the largest share in the overall arc-based plasma lighting market.”

The Xenon arc lamps segment within the arc-based plasma lighting industry is anticipated to sustain its dominant position in the market. This is attributed to its exceptional blend of features and widespread utility across diverse sectors. Xenon arc lamps are known for their capacity to emit light resembling natural sunlight, making them indispensable in applications demanding precise color rendering such as automotive lighting and cinema projection. Moreover, their high luminosity renders them suitable for outdoor lighting in large venues. The established reliability and extended lifespan of Xenon arc lamps further solidify their appeal across industrial and commercial domains. Additionally, ongoing advancements in Xenon arc lamp

technology bolster their competitive edge within the market.

“The UV applications segment is projected to grow at a significant growth rate during the forecast period.”

The UV applications segment is expected to experience the highest CAGR, driven by various factors. There is a growing emphasis on health and safety in response to recent global events, intensifying the need for effective disinfection solutions across various industries. UV lighting has proven highly effective in deactivating pathogens like bacteria and viruses, making it essential for sterilization in healthcare facilities, food processing plants, and public spaces. Furthermore, advancements in UV technology have spurred the development of more efficient and cost-effective plasma-based UV lighting systems, expanding their usage across a broad spectrum of industries. With organizations placing increased importance on hygiene and sanitation, the demand for UV applications is projected to escalate, thereby fueling substantial growth in the arc-based plasma lighting market.

“India is likely to exhibit highest CAGR in the Asia Pacific arc-based plasma lighting market during the forecast period”

India is expected to exhibit the highest growth rate in the market due to several significant factors. The increasing demand for advanced lighting solutions in the medical sector, particularly for surgical and diagnostic applications, is driving the adoption of arc-based plasma lighting. Additionally, the entertainment & projection industry in India is witnessing rapid growth, creating a substantial market for plasma lighting in theaters, concerts, and events. Moreover, the country's expanding infrastructure for entertainment venues and increasing consumer spending on leisure activities further contribute to the market's growth. Moreover, the automotive industry's growing need for precise and reliable lighting solutions for testing purposes also drives the adoption of arc-based plasma lighting technology in the country.

Breakdown of profiles of primary participants:

By Company Type: Tier 1 = 52%, Tier 2 = 38%, and Tier 3 = 10%

By Designation: C-level Executives = 62%, Directors = 25%, and Others = 13%

By Region: North America = 41%, Europe = 20%, Asia Pacific = 30%, and Rest of the World = 9%

The major companies in the arc-based plasma lighting market include ams-OSRAM AG (Germany), Signify Holding (Netherlands), Ushio Inc. (Japan), Excelitas Technologies Corp. (US), Hamamatsu Photonics K.K. (Japan), LEDVANCE GmbH (Germany), Newport Corporation (US), Superior Quartz Products, Inc. (US), Amglo Kemlite Laboratories (US).

Research Coverage

The report segments the arc-based plasma lighting market and forecasts its size, by value, based on light source, wattage type, application, and region (North America, Europe, Asia Pacific, and the Rest of the World). The report also comprehensively reviews market drivers, restraints, opportunities, and challenges in the arc-based plasma lighting market. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

Reasons to Buy the Report:

Analysis of key drivers (high color rendering index (CRI) driving adoption of arc-based plasma lighting and increasing usage in movie projection), restraints (growing dominance of LED lighting due to superior characteristics and frequent need to replace existing HID lamps), opportunities (growing demand for shock and vibration resistant lighting), and challenges (adverse environmental impact caused by metal halide and mercury vapor lamps and stringent regulatory compliance) influencing the growth of the arc-based plasma lighting market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the arc-based plasma lighting market

Market Development: Comprehensive information about lucrative markets – the report analyses the arc-based plasma lighting market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the arc-based plasma lighting market.

Competitive Assessment: In-depth assessment of market shares, growth

strategies and product offerings of leading players like ams-OSRAM AG (Germany), Signify Holding (Netherlands), Ushio Inc. (Japan), Excelitas Technologies Corp. (US), Hamamatsu Photonics K.K. (Japan), LEDVANCE GmbH (Germany), Newport Corporation (US), Superior Quartz Products, Inc. (US), Amglo Kemlite Laboratories (US).

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*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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