

Global High Intensity Discharge (HID) Lighting Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High Intensity Discharge (HID) Lighting market size was valued at US\$ 551 million in 2025 and is forecast to a readjusted size of US\$ 539 million by 2032 with a CAGR of -0.1% during review period.

High Intensity Discharge (HID) Lighting is a type of electrical gas-discharge light. In a high-intensity discharge lamp, electricity arcs between two electrodes, creating an intensely bright light. Mercury, sodium, or metal halide gas acts as the conductor. High-intensity discharge (HID) lighting provides the second highest efficacy and longest service life of any lighting type. In this report, high intensity discharge (HID) light mainly refers to the high intensity discharge light source.

High-intensity discharge (HID) lighting is a type of high-brightness lighting product that emits light by exciting gas or metal vapor through electric arc discharge. It mainly includes metal halide lamps, high-pressure sodium lamps, mercury lamps, xenon lamps, and ceramic metal halide lamps. Compared to ordinary incandescent lamps and some traditional lighting products, HID lamps have advantages such as high luminous flux, long illumination distance, high luminous efficacy, wide single-lamp power coverage, and suitability for large-space lighting. They have long been used in road lighting, industrial plants, stadiums, ports, airports, parking lots, commercial lighting, garden lighting, film and television stages, and automotive lighting. Although the rapid popularization of LED lighting in recent years has put significant pressure on HID lamps to replace them, HID lamps still maintain a certain market demand in some high-power, high-brightness, special spectrum, and existing system replacement scenarios.

From a demand structure perspective, the maintenance and replacement of existing

lighting systems is a crucial support for the current HID lamp market. Globally, many roads, factories, warehouses, parking lots, stadiums, and public facilities have long relied on high-pressure sodium lamps, metal halide lamps, and mercury lamps. Due to factors such as equipment upgrade cycles, budget constraints, electrical system compatibility, and maintenance habits, some regions still face ongoing replacement needs. Especially in developing markets, industrial facilities, mines, ports, agricultural facilities, and certain outdoor lighting scenarios, HID lamps, with their mature supply chain, relatively low initial cost, and high unit lighting capacity, still have considerable application potential.

In terms of product structure, metal halide lamps, due to their good color rendering and high brightness, are commonly used in stadiums, commercial spaces, factories, and outdoor lighting; high-pressure sodium lamps, with their high luminous efficacy, strong penetration, and long lifespan, have traditionally been widely used in road, tunnel, port, and municipal lighting; xenon lamps are mainly used in projection, film and television, and special lighting; while ceramic metal halide lamps have some demand in commercial lighting, stage lighting, and high-quality color rendering scenarios. HID lamps can be categorized by power into low-power, medium-power, and high-power products; and by application scenario into road and municipal lighting, industrial lighting, commercial lighting, automotive lighting, horticultural lighting, and professional special lighting.

In terms of the industry chain, the upstream mainly includes suppliers of quartz glass, ceramic arc tubes, tungsten electrodes, metal halides, sodium mercury fillers, lamp holders, electronic ballasts, triggers, glass housings, and encapsulation materials; the midstream consists of HID lamp manufacturers, lighting brand owners, and supporting electrical appliance companies; and the downstream covers municipal engineering, industrial enterprises, automotive parts, commercial lighting, horticulture, sports venues, film and television stages, and lighting engineering channels. The core of industry competition lies not only in luminous efficacy, lifespan, color rendering index, start-up performance, and stability, but also in ballast matching, product reliability, cost control, channel coverage, and after-sales replacement capabilities. With the accelerated replacement of LEDs, companies need to find growth opportunities in specialized niche scenarios, the existing maintenance market, and cost-effective solutions.

From a regional market perspective, mature markets such as North America, Europe, and Japan are experiencing rapid LED replacement processes, with HID lamp demand primarily concentrated in replacement of existing stock, the automotive aftermarket, horticultural lighting, and some professional lighting applications. In the Asia-Pacific,

Latin America, Middle East, and parts of Africa, HID lamp demand remains somewhat driven by infrastructure construction, industrial lighting, urban street lighting, and cost factors.

Looking ahead, the global HID lamp market will exhibit trends of overall volume pressure, structural differentiation, and specialization. On one hand, LED lighting's advantages in energy efficiency, lifespan, intelligent control, and maintenance costs will continue to replace traditional HID lamps in road, municipal, commercial, and industrial lighting. On the other hand, HID lamps will maintain their position in high-brightness, long-distance lighting, special spectrum applications, the automotive aftermarket, and some low-cost replacement scenarios.

This report is a detailed and comprehensive analysis for global High Intensity Discharge (HID) Lighting market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High Intensity Discharge (HID) Lighting market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Intensity Discharge (HID) Lighting market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Intensity Discharge (HID) Lighting market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Intensity Discharge (HID) Lighting market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global High Intensity Discharge (HID) Lighting Market 2026 by Manufacturers, Regions, Type and Application, Fo...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High Intensity Discharge (HID) Lighting

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High Intensity Discharge (HID) Lighting market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Signify, LEDVANCE, Current Lighting Solutions, Ushio, Venture Lighting International, Fotolec Technologies, Advanced Radiation Corp, Baoding Life Automotive Lighting, etc.

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

Market Segmentation

High Intensity Discharge (HID) Lighting market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High Pressure Sodium Lamps

Metal Halide Lamps

Xenon HID Lamps

Others

Market segment by Power

Low Power HID Lamps

Medium Power HID Lamps

High Power HID Lamps

Market segment by Light Source Materials

Quartz Arc Tube

Ceramic Arc Tube

Market segment by Application

Commercial Lighting

Public Facilities

Other

Major players covered

Signify

LEDVANCE

Current Lighting Solutions

Ushio

Venture Lighting International

Fotolec Technologies

Advanced Radiation Corp

Baoding Life Automotive Lighting

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High Intensity Discharge (HID) Lighting product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Intensity Discharge (HID) Lighting, with price, sales quantity, revenue, and global market share of High Intensity Discharge (HID) Lighting from 2021 to 2026.

Chapter 3, the High Intensity Discharge (HID) Lighting competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Intensity Discharge (HID) Lighting breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and High Intensity Discharge (HID) Lighting market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High Intensity Discharge (HID) Lighting.

Chapter 14 and 15, to describe High Intensity Discharge (HID) Lighting sales channel, distributors, customers, research findings and conclusion.

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