

Global High Intensity Discharge Light Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1CA9CB2DE8CEN.html>

Date: August 2026

Pages: 109

Price: US\$ 4,480.00 (Single User License)

ID: G1CA9CB2DE8CEN

Abstracts

The global High Intensity Discharge Light market size is expected to reach \$ 539 million by 2032, rising at a market growth of -0.1% CAGR during the forecast period (2026-2032).

High-intensity discharge light are high-brightness light sources that emit light through electric arc discharge, causing the gas, metal vapor, or metal halide inside the lamp tube to glow. They typically require a ballast for startup and stable operation. Compared to incandescent and halogen lamps, HID lamps offer higher luminous flux, longer illumination distance, higher luminous efficacy, and longer lifespan. Common types include metal halide lamps, high-pressure sodium lamps, high-pressure mercury lamps, ceramic metal halide lamps, and xenon lamps. Their applications include road lighting, industrial plants, stadiums, ports, commercial lighting, automotive headlights, theaters, plant lighting, and specialized industrial light sources. However, with the maturation of LED lighting technology, traditional HID lamps in road, industrial, and commercial lighting are gradually being replaced by LEDs, although there remains some demand in cinema projection, stage lighting, and specialized high-brightness light sources. The average selling price in 2025 was approximately US\$14 per unit.

High Intensity Discharge (HID) Light refers to a category of high-brightness lighting products that generate light through electric arc discharge by exciting gas or metal vapor inside the lamp. Major product types include metal halide lamps, high-pressure sodium lamps, mercury vapor lamps, xenon lamps, and ceramic metal halide lamps. Compared with incandescent lamps and some traditional lighting products, High Intensity Discharge (HID) Lights offer high luminous flux, long irradiation distance, relatively high luminous efficiency, wide power coverage, and strong suitability for large-area lighting. They have long been used in road lighting, industrial plants, sports

venues, ports, airports, parking lots, commercial lighting, horticultural lighting, film and stage lighting, and automotive lighting. Although LED lighting has rapidly expanded in recent years and has created strong substitution pressure on HID lights, HID products still maintain certain demand in high-power, high-brightness, special-spectrum, and installed-base replacement applications.

From the perspective of demand structure, maintenance and replacement of existing lighting systems remain an important support for the High Intensity Discharge (HID) Light market. A large number of roads, factories, warehouses, parking lots, stadiums, and public facilities worldwide have historically used high-pressure sodium lamps, metal halide lamps, and mercury vapor lamps. Due to equipment renovation cycles, budget constraints, compatibility with existing electrical systems, and established maintenance practices, continuous replacement demand still exists in some regions. In particular, HID lights continue to have application space in developing markets, industrial facilities, mines, ports, agricultural facilities, and certain outdoor lighting scenarios, supported by their mature supply chain, relatively low initial cost, and high unit lighting capability.

In terms of product structure, metal halide lamps are commonly used in sports venues, commercial spaces, factories, and outdoor lighting due to their good color rendering and high brightness. High-pressure sodium lamps feature high luminous efficiency, strong penetration, and relatively long service life, and have traditionally been widely used in roads, tunnels, ports, and municipal lighting. Xenon lamps are mainly used in automotive headlights, projection, film production, and special lighting. Ceramic metal halide lamps have certain demand in commercial lighting, stage lighting, and high-quality color rendering applications. By power rating, High Intensity Discharge (HID) Lights can be divided into low-power, medium-power, and high-power products. By application, they can be classified into road and municipal lighting, industrial lighting, commercial lighting, automotive lighting, horticultural lighting, and professional specialty lighting.

From the industry chain perspective, upstream suppliers mainly include quartz glass, ceramic arc tubes, tungsten electrodes, metal halides, sodium and mercury filling materials, lamp caps, electronic ballasts, ignitors, glass envelopes, and packaging materials. The midstream consists of HID light manufacturers, lighting brands, and supporting electrical component companies. Downstream customers cover municipal engineering, industrial enterprises, automotive components, commercial lighting, horticultural cultivation, sports venues, film and stage lighting, and lighting engineering channels. Industry competition is not only reflected in luminous efficiency, service life, color rendering, starting performance, and stability, but also in ballast compatibility,

product reliability, cost control, channel coverage, and after-sales replacement capability. As LED substitution accelerates, companies need to seek growth opportunities in professional niche applications, installed-base maintenance markets, and cost-effective lighting solutions.

From a regional perspective, mature markets such as North America, Europe, and Japan have seen relatively rapid LED substitution, and demand for High Intensity Discharge (HID) Lights is mainly concentrated in replacement demand, the automotive aftermarket, horticultural lighting, and certain professional lighting applications. In parts of Asia-Pacific, Latin America, the Middle East, and Africa, HID lights still maintain a certain shipment base due to infrastructure construction, industrial lighting, urban road lighting, and cost considerations.

Looking ahead, the global High Intensity Discharge (HID) Light market is expected to show a trend of overall volume pressure, structural differentiation, and professional application development. On the one hand, LED lighting will continue to replace traditional HID lights in road, municipal, commercial, and industrial lighting applications due to its advantages in energy efficiency, lifespan, intelligent control, and maintenance cost. On the other hand, HID lights will retain certain demand in high-brightness lighting, long-distance illumination, special-spectrum applications, the automotive aftermarket, and low-cost installed-base replacement scenarios.

This report studies the global High Intensity Discharge Light production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Intensity Discharge Light 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 High Intensity Discharge Light that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Intensity Discharge Light total production and demand, 2021-2032, (K Units)

Global High Intensity Discharge Light total production value, 2021-2032, (USD Million)

Global High Intensity Discharge Light production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High Intensity Discharge Light consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High Intensity Discharge Light domestic production, consumption, key domestic manufacturers and share

Global High Intensity Discharge Light production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High Intensity Discharge Light production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High Intensity Discharge Light production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High Intensity Discharge Light 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Intensity Discharge Light 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 High Intensity Discharge Light Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Intensity Discharge Light Market, Segmentation by Type:

High Pressure Sodium Lamps

Metal Halide Lamps

Xenon HID Lamps

Others

Global High Intensity Discharge Light Market, Segmentation by Power:

Low Power HID Lamps

Medium Power HID Lamps

High Power HID Lamps

Global High Intensity Discharge Light Market, Segmentation by Light Source Materials:

Quartz Arc Tube

Ceramic Arc Tube

Global High Intensity Discharge Light Market, Segmentation by Application:

Commercial Lighting

Public Facilities

Other

Companies Profiled:

Signify

LEDVANCE

Current Lighting Solutions

Ushio

Venture Lighting International

Fotolec Technologies

Advanced Radiation Corp

Baoding Life Automotive Lighting

Key Questions Answered:

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

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