

LED Grow Lights Market is Projected Expansion to \$12.32+ Billion Market Value by 2030 with a 28.2% CAGR During 2021-2030

The Europe region contributed major share in the LED grow lights market, accounting for more than 35.0% share in 2020.

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The global LED grow lights market size was valued at \$1.28 billion in 2020, and is projected to reach \$12.32 billion by 2030, registering a CAGR of 28.2% from 2021 to 2030.”

Allied Market Research

WILMINGTON, DE, UNITED STATES, August 8, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "[LED Grow Lights Market](#) By Wattage (Low Power, Medium Power, and High Power), Spectrum (Narrow and Broad), Installation Type (New Installation and Retrofit), and Application (Indoor Farming, Commercial Greenhouse, Vertical Farming, Turf and Landscaping, Research, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2030." According to the report, the global [LED grow lights](#) industry generated \$1.28 billion in 2020, and is expected to garner \$12.32 billion by 2030,

witnessing a CAGR of 28.2% from 2021 to 2030.

Prime Determinants of Growth

High efficiency and controllability offered by LED grow lights and rise in adoption in vertical farming drive the growth of the global LED grow lights market. However, lack of standardization and high initial investment hinder the market growth. On the other hand, legalization of cannabis presents new opportunities in the coming years.

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Covid-19 Scenario

Production activities of LED grow lights halted due to lockdown implemented across many countries. Moreover, supply chain disruptions and shortage of raw materials presented challenges in production at full capacity.

The demand from application industries such as indoor farming, commercial greenhouse, vertical farming, turf and landscaping, and others lowered down considerably during the lockdown. However, the demand is estimated to grow steadily during post-lockdown as daily activities get back on track.

The ban on import-export activities led to disruptions in the supply chain and the supply-demand gap. As the restrictions are lifted off, the supply chain is expected to be restored.

The Low Power Segment to Maintain its Lead Position during the Forecast Period

Based on wattage, the low power segment contributed to the highest share in 2020, holding more than half of the global LED grow lights market, and is estimated to maintain its lead position during the forecast period. This is due to ease in installation and operation as it functions on the basis of plug-and-play. However, the medium power segment is estimated to register the highest CAGR of 32.0% from 2021 to 2030, owing to rise in demand for indoor farming and the need for suitable intensity of light to generate optimum yield.

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The Narrow Segment to Maintain its Dominant Share during the Forecast Period

Based on spectrum, the narrow segment held the highest share in terms of revenue in 2020, accounting for more than three-fifths of the global LED grow lights market, and is projected to maintain its dominant share during the forecast period. This is attributed to the selective spectrum of lights required by certain plants. However, the broad segment is projected to manifest the largest CAGR of 31.5% from 2021 to 2030, owing to its crucial role in the treatment of bacterial infections in plants.

Asia-Pacific, Followed by North America, to Grow at the Fastest CAGR

Based on region, Asia-Pacific, followed by North America, is estimated to witness the fastest CAGR of 30.8% during the forecast period, owing to rapid surge in urban agriculture, such as greenhouses, vertical farming, and growth chambers. However, Europe accounted for the highest market share in 2020, contributing to more than one-third of the global LED grow lights market, and is expected to maintain its leadership status by 2030. This is due to considerable investments in indoor farming due to lack of sufficient sunlight for healthy development of fruits and vegetables.

Leading Market Players

Black Dog Grow Technologies Inc. (U.S.)

Bridgelux Inc. (U.S.)

CreeLED Inc. (U.S.)

EVERLIGHT Electronics Co. Ltd. (Taiwan)

Heliospectra AB (Sweden)
Lumigrow Inc. (U.S.)
OSRAM GmbH (Germany)
Samsung Electronics Co. Ltd. (South Korea)
Savant Systems Inc. (U.S.)
Signify Holding (Netherlands)

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