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North America Cannabis Grow Lights Market Size, Share & Trends Analysis Report By Product (Light-Emitting Diode, High-Intensity Discharge Lamps), By Cultivation (Indoor, Greenhouse), By Country, And Segment Forecasts, 2024 - 2030

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Abstracts

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North America Cannabis Grow Lights Market Growth & Trends

The North America cannabis grow lights market size is expected to reach USD 2.17 billion by 2030, registering a CAGR of 7.8% from 2024 to 2030, according to a new report by Grand View Research, Inc. Grow light helps extend the hours of natural daylight, increasing the plants' health, growth rate, and yield. Artificial lighting, such as LED lighting, high-pressure sodium, and fluorescent lighting, is used for indoor cannabis cultivation. Rising awareness regarding the importance of alternative farming, owing to the low availability of fertile agricultural land, is one of the key factors anticipated to boost market growth.

Moreover, increased legalization of cannabis in North America, specifically in the U.S. states, fuels the market growth. For instance, as of April 2023, 38 U.S. states, the District of Columbia, and three territories have legalized cannabis for medical purposes, and 24 states, the District of Columbia, and two territories have legalized cannabis for recreational use. In addition, in June 2021, Mexico's Supreme Court legalized cannabis for recreational purposes.

Modern LED grow lights are equipped with sophisticated functionalities, including monitoring and controlling settings remotely, allowing cultivators to adjust lighting

parameters precisely in real-time. Through smartphone applications or cloud-based platforms, cultivators can adjust spectrum, light intensity, and photoperiods to optimize plant growth and respond to changing environmental conditions. This level of control and precision empowers cultivators to minimize input costs, optimize resource utilization, and maximize yields.

Moreover, the growing adoption of grow lights for indoor and greenhouse cannabis cultivation fuels the market growth. For instance, according to research conducted by Cannabis Business Times and Fluence, 76% of participants reported using “High Pressure Sodium Bulbs” for vegetation and 73% for flowering in 2023 for cannabis cultivation.

Some of the key players in the market are Valoya, Heliospectra, Kind LED Grow Lights, VIVOSUN, California LightWorks, Biological Innovation and Optimization Systems, LLC, ViparSpectra, Mars Hydro, Hydrobuilder.com, and Hydrofarm. Players are adopting key strategic initiatives to expand their business footprint and grow their clientele. For instance, in January 2024, Active Grow, a provider of horticultural lighting solutions, launched the LoPro Max 3.0 LED Grow Lights, which are available in 650W and 800W models. It features the Sun White Pro + Spectrum, developed for vegetative to flowering stages for commercial cultivation.

North America Cannabis Grow Lights Market Report Highlights

Based on product, the light-emitting diode (LED) segment dominated the market in 2023. LED grow lights for cannabis run significantly cool, reducing the risk of plant stress and the need for extra ventilation expenses. They are also lightweight and don’t need bulky ballast

Based on cultivation, the indoor cultivation segment dominated the market in 2023. The growth is driven by the growing legalization of cannabis for indoor cultivation

The U.S. dominated the North American market with the highest revenue share in 2023. Cannabis is used in the pharmaceutical, cosmetic, and food & beverage industries in the U.S.

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