

Global Greenhouse Lighting Market

<https://marketpublishers.com/r/G6DB6F8598BEN.html>

Date: July 2018

Pages: 0

Price: US\$ 3,995.00 (Single User License)

ID: G6DB6F8598BEN

Abstracts

Greenhouse Lighting Market Overview:

A greenhouse lighting is a type of electronic lamp that is ergonomically designed to accelerate plant growth by emitting electromagnetic spectrum that is ideal for photosynthesis. Rapid developments in lighting technology and fixture efficiency provide different options for supplementary lighting in greenhouses. These lightings are used in applications that are devoid of natural or supplemental light source. For instance, greenhouse lightings are used during the winter season, when the available hours of daylight are inadequate for the growth of plants, to extend the light-receiving time for the plants. These lightings are available in specific spectrum range to cater to different types of plants being cultivated, different stages of cultivation, and the photoperiod required for the plants growth.

Growth in energy-efficient and long-lasting LED lightings technology and government initiatives & regulations to adopt energy-efficient lightings primarily drive the growth of the greenhouse lighting market. There is an increase in the demand for greenhouses as they provide higher yields as compared to the traditional methods of agriculture. The need for higher production of crops in less time is expected to boost the demand for lightings in greenhouses. Unfavorable climatic conditions lead to the growth of greenhouse practices for crop cultivation leading to higher application of greenhouse lighting systems.

The global greenhouse lighting market analysis is carried out across four major market segments-technology, crop type, greenhouse type, and region. Lighting technologies vary according to the distribution of radiation. The types of technology include high intensity discharge (HID), fluorescent, induction, light emitting diode (LED), and others. Based on crop type, the market is classified into fruit & vegetable, flower & ornamental, nursery crop, and others. By greenhouse type, the market is bifurcated into glass

greenhouse and plastic greenhouse. Based on region, the market is analyzed across North America, Asia-Pacific, Europe, and LAMEA.

Market Dynamics

Drivers

Efficient lighting is one of the most effective ways of cultivating a successful greenhouse crop. The state-of-the-art lights are designed to enhance photosynthesis and improve physiological functions. This enhances the growth of the LED lighting technology in lighting revolution.

Greenhouse, with the help of greenhouse lighting, offers improved quality and consistency of crops. It also helps attain maximum yields in lesser time as compared to traditional agriculture.

Restraint

High cost associated with the implementation of greenhouse lightings such as LED and plasma lightings impedes the growth of the global greenhouse lighting market.

Market Players

Some of the leading manufacturers profiled in this report are Everlight Electronics Co., Ltd., General Electric Company, Heliospectra AB, Hortilux Schreder B.V., Illumitex Inc., Iwasaki Electric Co., Ltd., Koninklijke Philips N.V., Lumigrow Inc., Osram Licht AG, and Scotts Miracle-Gro Co.

KEY TAKEAWAYS

MARKET LANDSCAPE

By Technology

HID

Fluorescent

Induction

LED

Others

By Crop Type

Fruit & Vegetable

Flower & Ornamental

Nursery Crop

Others

By Greenhouse Type

Glass Greenhouse

Plastic Greenhouse

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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FIGURE 10. GREENHOUSE LIGHTING MARKET, BY REGION, 2017 (%)

FIGURE 11. OSRAM LICHT AG: BUSINESS PERFORMANCE

FIGURE 12. SCOTTS MIRACLE-GRO CO.: BUSINESS PERFORMANCE

FIGURE 13. HELIOSPECTRA AB: BUSINESS PERFORMANCE

FIGURE 14. IWASAKI ELECTRIC CO., LTD.: BUSINESS PERFORMANCE

FIGURE 15. EVERLIGHT ELECTRONICS CO., LTD.: BUSINESS PERFORMANCE

FIGURE 16. GENERAL ELECTRIC COMPANY: BUSINESS PERFORMANCE

FIGURE 17. KONINKLIJKE PHILIPS N.V.: BUSINESS PERFORMANC

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