

# 2018-2023 Global LED Lighting for Horticulture Application Consumption Market Report

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## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global LED Lighting for Horticulture Application market for 2018-2023.

A light-emitting diode (LED) is a two-lead semiconductor light source. It is a p–n junction diode that emits light when activated. When a suitable current is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons. This effect is called electroluminescence, and the colour of the light (corresponding to the energy of the photon) is determined by the energy band gap of the semiconductor. LEDs are typically small (less than 1 mm<sup>2</sup>) and integrated optical components may be used to shape the radiation pattern.

Experiments revealed surprising performance and production of vegetables and ornamental plants under LED light sources. A large number of plant species have been assessed in greenhouse trials to make sure that the quality of biomass and biochemical ingredients of such plants is comparable with, or even higher than, those grown in field conditions. Plant performance of mint, basil, lentil, lettuce, cabbage, parsley and carrot was measured by assessing both the health and vigor of the plants and the success of the LEDs in promoting growth. Also noticed was profuse flowering of select ornamentals including primula, marigold and stock. Light emitting diodes (LEDs) offer efficient electric lighting in desired wavelengths (red + blue) which support greenhouse production in minimum time and with high quality and quantity. As LEDs are cool, plants can be placed as close as possible to light sources without overheating or scorching. This saves a large amount of space for intense cultivation.

Over the next five years, LPI(LP Information) projects that LED Lighting for Horticulture

Application will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of LED Lighting for Horticulture Application market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

LED Lamp

LED Luminaire

Segmentation by application:

Commercial greenhouse

Indoor and vertical farming

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding

detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Cree

Fluence Bioengineering

Heliospectra

Hubbell Lighting

Illumitex

Kessil Lighting

Lemnis Oreon

LumiGrow

Osram Sylvania

Smart Grow Technologies

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

## **RESEARCH OBJECTIVES**

To study and analyze the global LED Lighting for Horticulture Application consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of LED Lighting for Horticulture Application market by identifying its various subsegments.

Focuses on the key global LED Lighting for Horticulture Application

manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the LED Lighting for Horticulture Application with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of LED Lighting for Horticulture Application submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

## Contents

### **2018-2023 GLOBAL LED LIGHTING FOR HORTICULTURE APPLICATION CONSUMPTION MARKET REPORT**

#### **1 SCOPE OF THE REPORT**

- 1.1 Market Introduction
- 1.2 Research Objectives
- 1.3 Years Considered
- 1.4 Market Research Methodology
- 1.5 Economic Indicators
- 1.6 Currency Considered

#### **2 EXECUTIVE SUMMARY**

- 2.1 World Market Overview
  - 2.1.1 Global LED Lighting for Horticulture Application Consumption 2013-2023
  - 2.1.2 LED Lighting for Horticulture Application Consumption CAGR by Region
- 2.2 LED Lighting for Horticulture Application Segment by Type
  - 2.2.1 LED Lamp
  - 2.2.2 LED Luminaire
- 2.3 LED Lighting for Horticulture Application Consumption by Type
  - 2.3.1 Global LED Lighting for Horticulture Application Consumption Market Share by Type (2013-2018)
  - 2.3.2 Global LED Lighting for Horticulture Application Revenue and Market Share by Type (2013-2018)
  - 2.3.3 Global LED Lighting for Horticulture Application Sale Price by Type (2013-2018)
- 2.4 LED Lighting for Horticulture Application Segment by Application
  - 2.4.1 Commercial greenhouse
  - 2.4.2 Indoor and vertical farming
- 2.5 LED Lighting for Horticulture Application Consumption by Application
  - 2.5.1 Global LED Lighting for Horticulture Application Consumption Market Share by Application (2013-2018)
  - 2.5.2 Global LED Lighting for Horticulture Application Value and Market Share by Application (2013-2018)
  - 2.5.3 Global LED Lighting for Horticulture Application Sale Price by Application (2013-2018)

### **3 GLOBAL LED LIGHTING FOR HORTICULTURE APPLICATION BY PLAYERS**

#### 3.1 Global LED Lighting for Horticulture Application Sales Market Share by Players

3.1.1 Global LED Lighting for Horticulture Application Sales by Players (2016-2018)

3.1.2 Global LED Lighting for Horticulture Application Sales Market Share by Players (2016-2018)

#### 3.2 Global LED Lighting for Horticulture Application Revenue Market Share by Players

3.2.1 Global LED Lighting for Horticulture Application Revenue by Players (2016-2018)

3.2.2 Global LED Lighting for Horticulture Application Revenue Market Share by Players (2016-2018)

#### 3.3 Global LED Lighting for Horticulture Application Sale Price by Players

#### 3.4 Global LED Lighting for Horticulture Application Manufacturing Base Distribution, Sales Area, Product Types by Players

3.4.1 Global LED Lighting for Horticulture Application Manufacturing Base Distribution and Sales Area by Players

3.4.2 Players LED Lighting for Horticulture Application Products Offered

#### 3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) (2016-2018)

#### 3.6 New Products and Potential Entrants

#### 3.7 Mergers & Acquisitions, Expansion

### **4 LED LIGHTING FOR HORTICULTURE APPLICATION BY REGIONS**

#### 4.1 LED Lighting for Horticulture Application by Regions

4.1.1 Global LED Lighting for Horticulture Application Consumption by Regions

4.1.2 Global LED Lighting for Horticulture Application Value by Regions

#### 4.2 Americas LED Lighting for Horticulture Application Consumption Growth

#### 4.3 APAC LED Lighting for Horticulture Application Consumption Growth

#### 4.4 Europe LED Lighting for Horticulture Application Consumption Growth

#### 4.5 Middle East & Africa LED Lighting for Horticulture Application Consumption Growth

### **5 AMERICAS**

#### 5.1 Americas LED Lighting for Horticulture Application Consumption by Countries

5.1.1 Americas LED Lighting for Horticulture Application Consumption by Countries (2013-2018)

5.1.2 Americas LED Lighting for Horticulture Application Value by Countries (2013-2018)

- 5.2 Americas LED Lighting for Horticulture Application Consumption by Type
- 5.3 Americas LED Lighting for Horticulture Application Consumption by Application
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Key Economic Indicators of Few Americas Countries

## **6 APAC**

- 6.1 APAC LED Lighting for Horticulture Application Consumption by Countries
  - 6.1.1 APAC LED Lighting for Horticulture Application Consumption by Countries (2013-2018)
  - 6.1.2 APAC LED Lighting for Horticulture Application Value by Countries (2013-2018)
- 6.2 APAC LED Lighting for Horticulture Application Consumption by Type
- 6.3 APAC LED Lighting for Horticulture Application Consumption by Application
- 6.4 China
- 6.5 Japan
- 6.6 Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 Key Economic Indicators of Few APAC Countries

## **7 EUROPE**

- 7.1 Europe LED Lighting for Horticulture Application by Countries
  - 7.1.1 Europe LED Lighting for Horticulture Application Consumption by Countries (2013-2018)
  - 7.1.2 Europe LED Lighting for Horticulture Application Value by Countries (2013-2018)
- 7.2 Europe LED Lighting for Horticulture Application Consumption by Type
- 7.3 Europe LED Lighting for Horticulture Application Consumption by Application
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia
- 7.9 Spain
- 7.10 Key Economic Indicators of Few Europe Countries



## **8 MIDDLE EAST & AFRICA**

### 8.1 Middle East & Africa LED Lighting for Horticulture Application by Countries

#### 8.1.1 Middle East & Africa LED Lighting for Horticulture Application Consumption by Countries (2013-2018)

#### 8.1.2 Middle East & Africa LED Lighting for Horticulture Application Value by Countries (2013-2018)

### 8.2 Middle East & Africa LED Lighting for Horticulture Application Consumption by Type

### 8.3 Middle East & Africa LED Lighting for Horticulture Application Consumption by Application

#### 8.4 Egypt

#### 8.5 South Africa

#### 8.6 Israel

#### 8.7 Turkey

#### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

### 9.1 Market Drivers and Impact

#### 9.1.1 Growing Demand from Key Regions

#### 9.1.2 Growing Demand from Key Applications and Potential Industries

### 9.2 Market Challenges and Impact

### 9.3 Market Trends

## **10 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 10.1 Sales Channel

#### 10.1.1 Direct Marketing

#### 10.1.2 Indirect Marketing

### 10.2 LED Lighting for Horticulture Application Distributors

### 10.3 LED Lighting for Horticulture Application Customer

## **11 GLOBAL LED LIGHTING FOR HORTICULTURE APPLICATION MARKET FORECAST**

### 11.1 Global LED Lighting for Horticulture Application Consumption Forecast (2018-2023)

### 11.2 Global LED Lighting for Horticulture Application Forecast by Regions

#### 11.2.1 Global LED Lighting for Horticulture Application Forecast by Regions

(2018-2023)

11.2.2 Global LED Lighting for Horticulture Application Value Forecast by Regions

(2018-2023)

11.2.3 Americas Consumption Forecast

11.2.4 APAC Consumption Forecast

11.2.5 Europe Consumption Forecast

11.2.6 Middle East & Africa Consumption Forecast

11.3 Americas Forecast by Countries

11.3.1 United States Market Forecast

11.3.2 Canada Market Forecast

11.3.3 Mexico Market Forecast

11.3.4 Brazil Market Forecast

11.4 APAC Forecast by Countries

11.4.1 China Market Forecast

11.4.2 Japan Market Forecast

11.4.3 Korea Market Forecast

11.4.4 Southeast Asia Market Forecast

11.4.5 India Market Forecast

11.4.6 Australia Market Forecast

11.5 Europe Forecast by Countries

11.5.1 Germany Market Forecast

11.5.2 France Market Forecast

11.5.3 UK Market Forecast

11.5.4 Italy Market Forecast

11.5.5 Russia Market Forecast

11.5.6 Spain Market Forecast

11.6 Middle East & Africa Forecast by Countries

11.6.1 Egypt Market Forecast

11.6.2 South Africa Market Forecast

11.6.3 Israel Market Forecast

11.6.4 Turkey Market Forecast

11.6.5 GCC Countries Market Forecast

11.7 Global LED Lighting for Horticulture Application Forecast by Type

11.8 Global LED Lighting for Horticulture Application Forecast by Application

## **12 KEY PLAYERS ANALYSIS**

12.1 Cree

12.1.1 Company Details

- 12.1.2 LED Lighting for Horticulture Application Product Offered
- 12.1.3 Cree LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
- 12.1.4 Main Business Overview
- 12.1.5 Cree News
- 12.2 Fluence Bioengineering
  - 12.2.1 Company Details
  - 12.2.2 LED Lighting for Horticulture Application Product Offered
  - 12.2.3 Fluence Bioengineering LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.2.4 Main Business Overview
  - 12.2.5 Fluence Bioengineering News
- 12.3 Heliospectra
  - 12.3.1 Company Details
  - 12.3.2 LED Lighting for Horticulture Application Product Offered
  - 12.3.3 Heliospectra LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.3.4 Main Business Overview
  - 12.3.5 Heliospectra News
- 12.4 Hubbell Lighting
  - 12.4.1 Company Details
  - 12.4.2 LED Lighting for Horticulture Application Product Offered
  - 12.4.3 Hubbell Lighting LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.4.4 Main Business Overview
  - 12.4.5 Hubbell Lighting News
- 12.5 Illumitex
  - 12.5.1 Company Details
  - 12.5.2 LED Lighting for Horticulture Application Product Offered
  - 12.5.3 Illumitex LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.5.4 Main Business Overview
  - 12.5.5 Illumitex News
- 12.6 Kessil Lighting
  - 12.6.1 Company Details
  - 12.6.2 LED Lighting for Horticulture Application Product Offered
  - 12.6.3 Kessil Lighting LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.6.4 Main Business Overview

- 12.6.5 Kessil Lighting News
- 12.7 Lemnis Oreon
  - 12.7.1 Company Details
  - 12.7.2 LED Lighting for Horticulture Application Product Offered
  - 12.7.3 Lemnis Oreon LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.7.4 Main Business Overview
  - 12.7.5 Lemnis Oreon News
- 12.8 LumiGrow
  - 12.8.1 Company Details
  - 12.8.2 LED Lighting for Horticulture Application Product Offered
  - 12.8.3 LumiGrow LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.8.4 Main Business Overview
  - 12.8.5 LumiGrow News
- 12.9 Osram Sylvania
  - 12.9.1 Company Details
  - 12.9.2 LED Lighting for Horticulture Application Product Offered
  - 12.9.3 Osram Sylvania LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.9.4 Main Business Overview
  - 12.9.5 Osram Sylvania News
- 12.10 Smart Grow Technologies
  - 12.10.1 Company Details
  - 12.10.2 LED Lighting for Horticulture Application Product Offered
  - 12.10.3 Smart Grow Technologies LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)
  - 12.10.4 Main Business Overview
  - 12.10.5 Smart Grow Technologies News

## **13 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES AND FIGURES

Figure Picture of LED Lighting for Horticulture Application

Table Product Specifications of LED Lighting for Horticulture Application

Figure LED Lighting for Horticulture Application Report Years Considered

Figure Market Research Methodology

Figure Global LED Lighting for Horticulture Application Consumption Growth Rate 2013-2023 (K Units)

Figure Global LED Lighting for Horticulture Application Value Growth Rate 2013-2023 (\$ Millions)

Table LED Lighting for Horticulture Application Consumption CAGR by Region 2013-2023 (\$ Millions)

Figure Product Picture of LED Lamp

Table Major Players of LED Lamp

Figure Product Picture of LED Luminaire

Table Major Players of LED Luminaire

Table Global Consumption Sales by Type (2013-2018)

Table Global LED Lighting for Horticulture Application Consumption Market Share by Type (2013-2018)

Figure Global LED Lighting for Horticulture Application Consumption Market Share by Type (2013-2018)

Table Global LED Lighting for Horticulture Application Revenue by Type (2013-2018) (\$ million)

Table Global LED Lighting for Horticulture Application Value Market Share by Type (2013-2018) (\$ Millions)

Figure Global LED Lighting for Horticulture Application Value Market Share by Type (2013-2018)

Table Global LED Lighting for Horticulture Application Sale Price by Type (2013-2018)

Figure LED Lighting for Horticulture Application Consumed in Commercial greenhouse

Figure Global LED Lighting for Horticulture Application Market: Commercial greenhouse (2013-2018) (K Units)

Figure Global LED Lighting for Horticulture Application Market: Commercial greenhouse (2013-2018) (\$ Millions)

Figure Global Commercial greenhouse YoY Growth (\$ Millions)

Figure LED Lighting for Horticulture Application Consumed in Indoor and vertical farming

Figure Global LED Lighting for Horticulture Application Market: Indoor and vertical

farming (2013-2018) (K Units)

Figure Global LED Lighting for Horticulture Application Market: Indoor and vertical farming (2013-2018) (\$ Millions)

Figure Global Indoor and vertical farming YoY Growth (\$ Millions)

Table Global Consumption Sales by Application (2013-2018)

Table Global LED Lighting for Horticulture Application Consumption Market Share by Application (2013-2018)

Figure Global LED Lighting for Horticulture Application Consumption Market Share by Application (2013-2018)

Table Global LED Lighting for Horticulture Application Value by Application (2013-2018)

Table Global LED Lighting for Horticulture Application Value Market Share by Application (2013-2018)

Figure Global LED Lighting for Horticulture Application Value Market Share by Application (2013-2018)

Table Global LED Lighting for Horticulture Application Sale Price by Application (2013-2018)

Table Global LED Lighting for Horticulture Application Sales by Players (2016-2018) (K Units)

Table Global LED Lighting for Horticulture Application Sales Market Share by Players (2016-2018)

Figure Global LED Lighting for Horticulture Application Sales Market Share by Players in 2016

Figure Global LED Lighting for Horticulture Application Sales Market Share by Players in 2017

Table Global LED Lighting for Horticulture Application Revenue by Players (2016-2018) (\$ Millions)

Table Global LED Lighting for Horticulture Application Revenue Market Share by Players (2016-2018)

Figure Global LED Lighting for Horticulture Application Revenue Market Share by Players in 2016

Figure Global LED Lighting for Horticulture Application Revenue Market Share by Players in 2017

Table Global LED Lighting for Horticulture Application Sale Price by Players (2016-2018)

Figure Global LED Lighting for Horticulture Application Sale Price by Players in 2017

Table Global LED Lighting for Horticulture Application Manufacturing Base Distribution and Sales Area by Players

Table Players LED Lighting for Horticulture Application Products Offered

Table LED Lighting for Horticulture Application Concentration Ratio (CR3, CR5 and

CR10) (2016-2018)

Table Global LED Lighting for Horticulture Application Consumption by Regions  
2013-2018 (K Units)

Table Global LED Lighting for Horticulture Application Consumption Market Share by  
Regions 2013-2018

Figure Global LED Lighting for Horticulture Application Consumption Market Share by  
Regions 2013-2018

Table Global LED Lighting for Horticulture Application Value by Regions 2013-2018 (\$  
Millions)

Table Global LED Lighting for Horticulture Application Value Market Share by Regions  
2013-2018

Figure Global LED Lighting for Horticulture Application Value Market Share by Regions  
2013-2018

Figure Americas LED Lighting for Horticulture Application Consumption 2013-2018 (K  
Units)

Figure Americas LED Lighting for Horticulture Application Value 2013-2018 (\$ Millions)

Figure APAC LED Lighting for Horticulture Application Consumption 2013-2018 (K  
Units)

Figure APAC LED Lighting for Horticulture Application Value 2013-2018 (\$ Millions)

Figure Europe LED Lighting for Horticulture Application Consumption 2013-2018 (K  
Units)

Figure Europe LED Lighting for Horticulture Application Value 2013-2018 (\$ Millions)

Figure Middle East & Africa LED Lighting for Horticulture Application Consumption  
2013-2018 (K Units)

Figure Middle East & Africa LED Lighting for Horticulture Application Value 2013-2018  
(\$ Millions)

Table Americas LED Lighting for Horticulture Application Consumption by Countries  
(2013-2018) (K Units)

Table Americas LED Lighting for Horticulture Application Consumption Market Share by  
Countries (2013-2018)

Figure Americas LED Lighting for Horticulture Application Consumption Market Share  
by Countries in 2017

Table Americas LED Lighting for Horticulture Application Value by Countries  
(2013-2018) (\$ Millions)

Table Americas LED Lighting for Horticulture Application Value Market Share by  
Countries (2013-2018)

Figure Americas LED Lighting for Horticulture Application Value Market Share by  
Countries in 2017

Table Americas LED Lighting for Horticulture Application Consumption by Type

(2013-2018) (K Units)

Table Americas LED Lighting for Horticulture Application Consumption Market Share by Type (2013-2018)

Figure Americas LED Lighting for Horticulture Application Consumption Market Share by Type in 2017

Table Americas LED Lighting for Horticulture Application Consumption by Application (2013-2018) (K Units)

Table Americas LED Lighting for Horticulture Application Consumption Market Share by Application (2013-2018)

Figure Americas LED Lighting for Horticulture Application Consumption Market Share by Application in 2017

Figure United States LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure United States LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Canada LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Canada LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Mexico LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Mexico LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Table APAC LED Lighting for Horticulture Application Consumption by Countries (2013-2018) (K Units)

Table APAC LED Lighting for Horticulture Application Consumption Market Share by Countries (2013-2018)

Figure APAC LED Lighting for Horticulture Application Consumption Market Share by Countries in 2017

Table APAC LED Lighting for Horticulture Application Value by Countries (2013-2018) (\$ Millions)

Table APAC LED Lighting for Horticulture Application Value Market Share by Countries (2013-2018)

Figure APAC LED Lighting for Horticulture Application Value Market Share by Countries in 2017

Table APAC LED Lighting for Horticulture Application Consumption by Type (2013-2018) (K Units)

Table APAC LED Lighting for Horticulture Application Consumption Market Share by Type (2013-2018)



Figure APAC LED Lighting for Horticulture Application Consumption Market Share by Type in 2017

Table APAC LED Lighting for Horticulture Application Consumption by Application (2013-2018) (K Units)

Table APAC LED Lighting for Horticulture Application Consumption Market Share by Application (2013-2018)

Figure APAC LED Lighting for Horticulture Application Consumption Market Share by Application in 2017

Figure China LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure China LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Japan LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Japan LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Korea LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Korea LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Southeast Asia LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Southeast Asia LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure India LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure India LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Australia LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Australia LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Table Europe LED Lighting for Horticulture Application Consumption by Countries (2013-2018) (K Units)

Table Europe LED Lighting for Horticulture Application Consumption Market Share by Countries (2013-2018)

Figure Europe LED Lighting for Horticulture Application Consumption Market Share by Countries in 2017

Table Europe LED Lighting for Horticulture Application Value by Countries (2013-2018)

(\$ Millions)

Table Europe LED Lighting for Horticulture Application Value Market Share by Countries (2013-2018)

Figure Europe LED Lighting for Horticulture Application Value Market Share by Countries in 2017

Table Europe LED Lighting for Horticulture Application Consumption by Type (2013-2018) (K Units)

Table Europe LED Lighting for Horticulture Application Consumption Market Share by Type (2013-2018)

Figure Europe LED Lighting for Horticulture Application Consumption Market Share by Type in 2017

Table Europe LED Lighting for Horticulture Application Consumption by Application (2013-2018) (K Units)

Table Europe LED Lighting for Horticulture Application Consumption Market Share by Application (2013-2018)

Figure Europe LED Lighting for Horticulture Application Consumption Market Share by Application in 2017

Figure Germany LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Germany LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure France LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure France LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure UK LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure UK LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Italy LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Italy LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Russia LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Russia LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Spain LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Spain LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Table Middle East & Africa LED Lighting for Horticulture Application Consumption by Countries (2013-2018) (K Units)

Table Middle East & Africa LED Lighting for Horticulture Application Consumption Market Share by Countries (2013-2018)

Figure Middle East & Africa LED Lighting for Horticulture Application Consumption Market Share by Countries in 2017

Table Middle East & Africa LED Lighting for Horticulture Application Value by Countries (2013-2018) (\$ Millions)

Table Middle East & Africa LED Lighting for Horticulture Application Value Market Share by Countries (2013-2018)

Figure Middle East & Africa LED Lighting for Horticulture Application Value Market Share by Countries in 2017

Table Middle East & Africa LED Lighting for Horticulture Application Consumption by Type (2013-2018) (K Units)

Table Middle East & Africa LED Lighting for Horticulture Application Consumption Market Share by Type (2013-2018)

Figure Middle East & Africa LED Lighting for Horticulture Application Consumption Market Share by Type in 2017

Table Middle East & Africa LED Lighting for Horticulture Application Consumption by Application (2013-2018) (K Units)

Table Middle East & Africa LED Lighting for Horticulture Application Consumption Market Share by Application (2013-2018)

Figure Middle East & Africa LED Lighting for Horticulture Application Consumption Market Share by Application in 2017

Figure Egypt LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Egypt LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure South Africa LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure South Africa LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Israel LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure Israel LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure Turkey LED Lighting for Horticulture Application Consumption Growth 2013-2018

(K Units)

Figure Turkey LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Figure GCC Countries LED Lighting for Horticulture Application Consumption Growth 2013-2018 (K Units)

Figure GCC Countries LED Lighting for Horticulture Application Value Growth 2013-2018 (\$ Millions)

Table LED Lighting for Horticulture Application Distributors List

Table LED Lighting for Horticulture Application Customer List

Figure Global LED Lighting for Horticulture Application Consumption Growth Rate Forecast (2018-2023) (K Units)

Figure Global LED Lighting for Horticulture Application Value Growth Rate Forecast (2018-2023) (\$ Millions)

Table Global LED Lighting for Horticulture Application Consumption Forecast by Countries (2018-2023) (K Units)

Table Global LED Lighting for Horticulture Application Consumption Market Forecast by Regions

Table Global LED Lighting for Horticulture Application Value Forecast by Countries (2018-2023) (\$ Millions)

Table Global LED Lighting for Horticulture Application Value Market Share Forecast by Regions

Figure Americas LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Americas LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure APAC LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure APAC LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Europe LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Europe LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Middle East & Africa LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Middle East & Africa LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure United States LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure United States LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Canada LED Lighting for Horticulture Application Consumption 2018-2023 (K

Units)

Figure Canada LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Mexico LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Mexico LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Brazil LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Brazil LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure China LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure China LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Japan LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Japan LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Korea LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Korea LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Southeast Asia LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Southeast Asia LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure India LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure India LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Australia LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Australia LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Germany LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Germany LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure France LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure France LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure UK LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure UK LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Italy LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Italy LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Russia LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Russia LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Spain LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Spain LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Egypt LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Egypt LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure South Africa LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure South Africa LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Israel LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Israel LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure Turkey LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure Turkey LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Figure GCC Countries LED Lighting for Horticulture Application Consumption 2018-2023 (K Units)

Figure GCC Countries LED Lighting for Horticulture Application Value 2018-2023 (\$ Millions)

Table Global LED Lighting for Horticulture Application Consumption Forecast by Type (2018-2023) (K Units)

Table Global LED Lighting for Horticulture Application Consumption Market Share Forecast by Type (2018-2023)

Table Global LED Lighting for Horticulture Application Value Forecast by Type (2018-2023) (\$ Millions)

Table Global LED Lighting for Horticulture Application Value Market Share Forecast by Type (2018-2023)

Table Global LED Lighting for Horticulture Application Consumption Forecast by Application (2018-2023) (K Units)

Table Global LED Lighting for Horticulture Application Consumption Market Share Forecast by Application (2018-2023)

Table Global LED Lighting for Horticulture Application Value Forecast by Application (2018-2023) (\$ Millions)

Table Global LED Lighting for Horticulture Application Value Market Share Forecast by Application (2018-2023)

Table Cree Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Cree LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Cree LED Lighting for Horticulture Application Market Share (2016-2018)

Table Fluence Bioengineering Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Fluence Bioengineering LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Fluence Bioengineering LED Lighting for Horticulture Application Market Share (2016-2018)

Table Heliospectra Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Heliospectra LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Heliospectra LED Lighting for Horticulture Application Market Share (2016-2018)

Table Hubbell Lighting Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Hubbell Lighting LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Hubbell Lighting LED Lighting for Horticulture Application Market Share (2016-2018)

Table Illuminex Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Illuminex LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Illuminex LED Lighting for Horticulture Application Market Share (2016-2018)

Table Kessil Lighting Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Kessil Lighting LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Kessil Lighting LED Lighting for Horticulture Application Market Share (2016-2018)

Table Lemnis Oreon Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Lemnis Oreon LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Lemnis Oreon LED Lighting for Horticulture Application Market Share (2016-2018)

Table LumiGrow Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table LumiGrow LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure LumiGrow LED Lighting for Horticulture Application Market Share (2016-2018)

Table Osram Sylvania Basic Information, Manufacturing Base, Sales Area and Its

## Competitors

Table Osram Sylvania LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Osram Sylvania LED Lighting for Horticulture Application Market Share (2016-2018)

Table Smart Grow Technologies Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Smart Grow Technologies LED Lighting for Horticulture Application Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Smart Grow Technologies LED Lighting for Horticulture Application Market Share (2016-2018)



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