

# **LED Grow Light Market by Wattage, Type of Installation (New, Retrofit), Spectrum (Partial, Full), Application (Indoor Farming, Commercial Greenhouse, Vertical Farming, Turf & Landscaping, Research, and Others), and Geography - Forecast to 2020**

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## **Abstracts**

Light-Emitting Diode (LED) grow light is a specialized kind of LED lighting system, which is witnessing increased adoption across all application areas. This is primarily due to the capacity of this technology to produce food in controlled environment through vertical farming, commercial greenhouse, and indoor farming among many others. The increasing population in urban areas requires high food production and through natural lighting food can be produced seasonally. LED grow light technology is helping growers in producing food under controlled environment as a substitute to natural lighting.

Earlier, only low-power LED grow lights were available. But after years of research, up to 1,200 W LED grow lights are available nowadays. Recent development in technology opened the new applications for LED grow light such as vertical farming, and smart greenhouse among others. The use of LED grow light in vertical farming and commercial greenhouse is increasing rapidly due to increased production cycle with LED grow light. Vertical farming is the fastest growing application in the LED grow light market with a Compound Annual Growth Rate (CAGR) of 30.29% from 2015 to 2020. This application is expected to reach a value worth \$401.72 million by 2020. The low-space area cultivation of vertical farming is the main reason for its high growth in the LED grow light market. Vertical farming is mainly used in urban areas due to space constraint. The commercial greenhouse application hold the largest share in LED grow light market in 2015, and it is expected to dominate the market during the forecast

period. The LED grow light increases the food production by providing appropriate light required for healthy food cultivation that increases the profit of farmers. Hence, many countries in developed regions such as North America and Europe are using LED grow light in their commercial greenhouses. Also, in some of the countries in Asia-Pacific (APAC) region, such as Japan, Russia, and China, the LED grow light market in commercial greenhouses has impressive growth.

In this report, the LED grow light market is segmented on the basis of spectrum into partial spectrum and full spectrum. The product used in this technology are categorized into low power (300 W). The application segments for LED grow light covered in this study include indoor farming, commercial greenhouse, vertical farming, turf and landscaping, research, and others. Each product, application, and component is analyzed both in terms of qualitative and quantitative aspect, and it includes all subsegments with detailed analysis. The competitive landscape section of the report primarily focuses on key industry players in the LED grow light market, their latest developments, and respective market shares. Furthermore, the report entails emerging market trends, advancements in the technological space, market demand of the segments, key growth areas, market size, region-wise demand factors, and key competitors' analysis.

The geographic segmentation of the report covers four major regions of the world, namely, North America, Europe, APAC, and Rest of the World (RoW). The report also profiles major players in the LED grow light market. Some of the major players in this market are Alta LED Corporation (U.S.), Bridgelux, Inc. (U.S.), Cree, Inc. (U.S.), Everlight Electronics Co. Ltd. (Taiwan), General Electric Company (U.S.), Heliospectra AB (Sweden), Illumitex, Inc. (U.S.), Lumigrow, Inc. (U.S.), Osram Licht AG (Germany), and Royal Philips Electronics N.V. (Netherlands).

## Contents

### 1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED
  - 1.3.2 GEOGRAPHIC SCOPE
  - 1.3.3 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 Key data from secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Key data from primary sources
    - 2.1.2.2 Key industry insights
    - 2.1.2.3 Breakdown of primaries
- 2.2 MARKET SIZE ESTIMATION
  - 2.2.1 BOTTOM-UP APPROACH
  - 2.2.2 TOP-DOWN APPROACH
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS AND LIMITATIONS
  - 2.4.1 ASSUMPTIONS
  - 2.4.2 LIMITATIONS

### 3 EXECUTIVE SUMMARY

### 4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE GROWTH OPPORTUNITIES IN THE LED GROW LIGHT MARKET
- 4.2 LED GROW LIGHT MARKET, BY APPLICATION
- 4.3 LED GROW LIGHT MARKET IN THE ASIA-PACIFIC REGION, 2014
- 4.4 U.S. COMMANDED LEADING MARKET SHARE IN THE LED GROW LIGHT

## MARKET IN 2014

4.5 VERTICAL FARMING IS EXPECTED TO BE THE FASTEST GROWING APPLICATION FOR LED GROW LIGHT DURING 2015–2020

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 EVOLUTION OF LED GROW LIGHTS

### 5.3 MARKET SEGMENTATION

### 5.4 MARKET DYNAMICS

#### 5.4.1 DRIVERS

5.4.1.1 Rising trend of indoor farming would boost the adoption of LED grow lights

5.4.1.2 Government regulations favoring growth of LED technology

5.4.1.3 Need for energy-efficient and long-lasting lighting technology

#### 5.4.2 RESTRAINTS

5.4.2.1 Purchasing of good quality LED grow lights can be very costly for growers

#### 5.4.3 OPPORTUNITIES

5.4.3.1 Retrofitting of conventional lighting technologies with LED grow lights

5.4.3.2 Emergence of vertical farms in urban areas

#### 5.4.4 CHALLENGES

5.4.4.1 Absence of standard testing practices for assessing the quality of LED products

## 6 INDUSTRY TRENDS

### 6.1 VALUE CHAIN

### 6.2 STRATEGIC BENCHMARKING

6.2.1 CONTRACTS, AGREEMENTS, AND PRODUCT INNOVATIONS

### 6.3 PORTER'S FIVE FORCES ANALYSIS

6.3.1 THREAT OF NEW ENTRANTS

6.3.2 THREAT OF SUBSTITUTES

6.3.3 BARGAINING POWER OF SUPPLIERS

6.3.4 BARGAINING POWER OF BUYERS

6.3.5 INTENSITY OF RIVALRY

## 7 LED GROW LIGHT MARKET, BY PRODUCT

### 7.1 INTRODUCTION

### 7.2 300 WATT

## **8 LED GROW LIGHT MARKET, BY INSTALLATION TYPE**

8.1 INTRODUCTION

8.2 NEW INSTALLATION

8.3 RETROFIT

## **9 LED GROW LIGHT MARKET, BY SPECTRUM**

9.1 INTRODUCTION

9.2 PARTIAL SPECTRUM

9.3 FULL SPECTRUM

## **10 LED GROW LIGHT MARKET, BY APPLICATION**

10.1 INTRODUCTION

10.2 INDOOR FARMING

10.3 COMMERCIAL GREENHOUSE

10.4 VERTICAL FARMING

10.5 TURF AND LANDSCAPING

10.6 RESEARCH

10.7 OTHERS

## **11 LED GROW LIGHT MARKET, BY GEOGRAPHY**

11.1 INTRODUCTION

11.2 NORTH AMERICA

11.3 EUROPE

11.4 APAC

11.5 ROW

## **12 COMPETITIVE LANDSCAPE**

12.1 OVERVIEW

12.2 MARKET RANKING ANALYSIS

12.2.1 MARKET RANKING ANALYSIS FOR LED GROW LIGHT MARKET, 2014

12.3 COMPETITIVE SITUATION AND TRENDS

12.3.1 NEW PRODUCT LAUNCHES

12.3.2 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS, AND JOINT

## VENTURES

### 12.3.3 OTHER DEVELOPMENTS

## **13 COMPANY PROFILES**

### 13.1 INTRODUCTION

(Overview, Financials, Products & Services, Strategy, and Developments)\*

#### 13.2 ROYAL PHILIPS ELECTRONICS N.V.

#### 13.3 LUMIGROW, INC.

#### 13.4 OSRAM LICHT AG

#### 13.5 HELIOSPECTRA AB

#### 13.6 GENERAL ELECTRIC COMPANY

#### 13.7 CREE, INC.

#### 13.8 EVERLIGHT ELECTRONICS CO. LTD.

#### 13.9 ALTA LED CORPORATION

#### 13.10 BRIDGELUX, INC.

#### 13.11 ILLUMITEX, INC.

\*Details on overview, financials, product & services, strategy, and developments might not be captured in case of unlisted companies.

## **14 APPENDIX**

### 14.1 INSIGHTS OF INDUSTRY EXPERTS

### 14.2 DISCUSSION GUIDE

### 14.3 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE

### 14.4 AVAILABLE CUSTOMIZATIONS

### 14.5 RELATED REPORTS

## List Of Tables

### LIST OF TABLES

TABLE 1 DRIVERS: IMPACT ANALYSIS

TABLE 2 RESTRAINTS: IMPACT ANALYSIS

TABLE 3 OPPORTUNITIES: IMPACT ANALYSIS

TABLE 4 CHALLENGES: IMPACT ANALYSIS

TABLE 5 LED GROW LIGHT MARKET SIZE, BY PRODUCT, 2014–2020 (USD MILLION)

TABLE 6 LED GROW LIGHTING MARKET SIZE, BY TYPE OF INSTALLATION, 2014–2020 (USD MILLION)

TABLE 7 LED GROW LIGHT MARKET SIZE, BY SPECTRUM, 2014–2020 (USD MILLION)

TABLE 8 LED GROW LIGHT MARKET SIZE, BY APPLICATION, 2014–2020 (USD MILLION)

TABLE 9 INDOOR FARMING MARKET SIZE, BY WATT, 2014–2020 (USD MILLION))

TABLE 10 INDOOR FARMING MARKET SIZE, BY SPECTRUM, 2014–2020 (USD MILLION)

TABLE 11 INDOOR FARMING MARKET SIZE, BY GEOGRAPHY, 2014–2020 (USD MILLION)

TABLE 12 COMMERCIAL GREENHOUSE MARKET SIZE, BY WATT, 2014–2020 (USD MILLION)

TABLE 13 COMMERCIAL GREENHOUSE MARKET SIZE, BY SPECTRUM, 2014–2020 (USD MILLION)

TABLE 14 COMMERCIAL GREENHOUSE MARKET SIZE, BY GEOGRAPHY, 2014–2020 (USD MILLION)

TABLE 15 VERTICAL FARMING MARKET SIZE, BY WATT, 2014–2020 (USD MILLION)

TABLE 16 VERTICAL FARMING MARKET SIZE, BY SPECTRUM, 2014–2020 (USD MILLION)

TABLE 17 VERTICAL FARMING MARKET SIZE, BY GEOGRAPHY, 2014–2020 (USD MILLION)

TABLE 18 TURF & LANDSCAPING MARKET SIZE, BY WATT, 2014–2020 (USD MILLION)

TABLE 19 TURF & LANDSCAPING MARKET SIZE, BY SPECTRUM, 2014–2020 (USD MILLION)

TABLE 20 TURF & LANDSCAPING MARKET SIZE, BY GEOGRAPHY, 2014–2020 (USD MILLION)

TABLE 21 RESEARCH MARKET SIZE, BY WATT, 2014–2020 (USD MILLION)

TABLE 22 RESEARCH MARKET SIZE, BY SPECTRUM, 2014–2020 (USD MILLION)

TABLE 23 RESEARCH MARKET SIZE, BY GEOGRAPHY, 2014–2020 (USD MILLION)

TABLE 24 OTHERS MARKET SIZE, BY WATT, 2014–2020 (USD MILLION)

TABLE 25 OTHER APPLICATION MARKET SIZE, BY SPECTRUM, 2014–2020 (USD MILLION)

TABLE 26 OTHER APPLICATION MARKET SIZE, BY GEOGRAPHY, 2014–2020 (USD MILLION)

TABLE 27 LED GROW LIGHT MARKET, BY GEOGRAPHY, 2014–2020 (USD MILLION)

TABLE 28 NORTH AMERICA: LED GROW LIGHTING MARKET SIZE, BY APPLICATION, 2014–2020 (USD MILLION)

TABLE 29 NORTH AMERICA: LED GROW LIGHTING MARKET SIZE, BY COUNTRY, 2014–2020 (USD MILLION)

TABLE 30 EUROPE: LED GROW LIGHTING MARKET SIZE, BY APPLICATION, 2014–2020 (USD MILLION)

TABLE 31 EUROPE: LED GROW LIGHTING MARKET SIZE, BY COUNTRY, 2014–2020 (USD MILLION)

TABLE 32 APAC: LED GROW LIGHTING MARKET SIZE, BY APPLICATION, 2014–2020 (USD MILLION)

TABLE 33 APAC: LED GROW LIGHTING MARKET SIZE, BY COUNTRY, 2014–2020 (USD MILLION)

TABLE 34 ROW: LED GROW LIGHTING MARKET SIZE, BY APPLICATION, 2014–2020 (USD MILLION)

TABLE 35 ROW: LED GROW LIGHTING MARKET SIZE, BY COUNTRY, 2014–2020 (USD MILLION)

TABLE 36 NEW PRODUCT LAUNCHES, 2014–2015

TABLE 37 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS, AND JOINT VENTURES, 2014–2015

TABLE 38 OTHER DEVELOPMENTS, 2014–2015

## List Of Figures

### LIST OF FIGURES

FIGURE 1 RESEARCH DESIGN

FIGURE 2 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 4 DATA TRIANGULATION

FIGURE 5 ASSUMPTIONS OF THE RESEARCH STUDY

FIGURE 6 LIMITATIONS OF THE RESEARCH STUDY

FIGURE 7 LED GROW LIGHT MARKET SNAPSHOT (2015 VS. 2020): COMMERCIAL GREENHOUSE IS EXPECTED TO HAVE THE LARGEST MARKET SIZE DURING THE FORECAST PERIOD

FIGURE 8 GLOBAL LED GROW LIGHT MARKET, BY APPLICATION, 2014

FIGURE 9 LED GROW LIGHT MARKET, BY SPECTRUM, 2015 VS. 2020

FIGURE 10 GLOBAL LED GROW LIGHT MARKET SHARE, BY REGION, 2014

FIGURE 11 LED GROW LIGHT MARKET IS EXPECTED TO RISE WITH A VERY HIGH ADOPTION RATE DURING THE FORECAST PERIOD

FIGURE 12 COMMERCIAL GREENHOUSES ARE EXPECTED TO BE THE LARGEST ADOPTERS OF LED GROW LIGHT TECHNOLOGY DURING 2015–2020

FIGURE 13 JAPAN WAS ONE OF THE FIRST ADOPTERS OF LED GROW LIGHT TECHNOLOGY IN ASIA-PACIFIC WITH 33% MARKET SHARE IN 2014

FIGURE 14 U.S AND GERMANY WERE THE LEADING MARKETS FOR LED GROW LIGHTS IN 2014

FIGURE 15 LED GROW LIGHT MARKET IS EXPECTED TO SEE THE FASTEST ADOPTION IN THE VERTICAL FARMING APPLICATION DURING THE FORECAST PERIOD

FIGURE 16 EVOLUTION OF LIGHTING TECHNOLOGIES

FIGURE 17 LED GROW LIGHT MARKET, BY POWER OUTPUT

FIGURE 18 LED GROW LIGHT MARKET, BY SPECTRUM

FIGURE 19 LED GROW LIGHT MARKET, BY TYPE OF INSTALLATION

FIGURE 20 LED GROW LIGHT MARKET, BY APPLICATION

FIGURE 21 INDOOR FARMING AND GOVERNMENT REGULATIONS TO DRIVE THE MARKET FOR LED GROW LIGHTS DURING THE FORECAST PERIOD

FIGURE 22 LED GROW LIGHT MARKET: VALUE CHAIN ANALYSIS

FIGURE 23 STRATEGIC BENCHMARKING: MAJOR COMPANIES ARE FOCUSING ON CONTRACTUAL AGREEMENTS AS GROWTH STRATEGY

FIGURE 24 PORTER'S FIVE FORCES ANALYSIS FOR LED GROW LIGHT MARKET

FIGURE 25 PORTER'S FIVE FORCES: IMPACT ANALYSIS

FIGURE 26 THREAT OF NEW ENTRANTS  
FIGURE 27 THREAT OF SUBSTITUTES  
FIGURE 28 BARGAINING POWER OF SUPPLIERS  
FIGURE 29 BARGAINING POWER OF BUYERS  
FIGURE 30 INTENSITY OF RIVALRY  
FIGURE 31 MARKET FOR >300WATT LED PANELS HELD THE LARGEST MARKET SHARE IN 2014  
FIGURE 32 NEW INSTALLATION MARKET HELD THE LARGEST MARKET SHARE IN 2014  
FIGURE 33 VERTICAL FARMING IS EXPECTED TO GROW AT THE HIGHEST CAGR AMONG ALL APPLICATIONS FROM 2015 TO 2020  
FIGURE 34 APAC MARKET IS EXPECTED TO GROW AT THE HIGHEST CAGR FROM 2015 TO 2020  
FIGURE 35 HIGH WATT LED PANELS HOLDS LARGEST MARKET SHARE IN 2014  
FIGURE 36 LED GROW LIGHT MARKET, GEOGRAPHIC SNAPSHOT, 2015–2020  
FIGURE 37 EUROPE GEOGRAPHIC SNAPSHOT, 2014  
FIGURE 38 APAC GEOGRAPHIC SNAPSHOT, 2014  
FIGURE 39 COMPANIES ADOPTED AGREEMENT, PARTNERSHIP, AND JOINT VENTURE AS THE KEY GROWTH STRATEGY FROM 2013-2015  
FIGURE 40 BATTLE FOR MARKET SHARE: AGREEMENT, PARTNERSHIP, AND COLLABORATION WAS THE KEY STRATEGY  
FIGURE 41 GEOGRAPHIC REVENUE MIX OF MAJOR COMPANIES  
FIGURE 42 ROYAL PHILIPS ELECTRONICS N.V.: COMPANY SNAPSHOT  
FIGURE 43 ROYAL PHILIPS ELECTRONICS N.V.: SWOT ANALYSIS  
FIGURE 44 LUMIGROW, INC.: SWOT ANALYSIS  
FIGURE 45 OSRAM LICHT AG: COMPANY SNAPSHOT  
FIGURE 46 OSRAM LICHT AG: SWOT ANALYSIS  
FIGURE 47 HELIOSPECTRA AB: SWOT ANALYSIS  
FIGURE 48 GENERAL ELECTRIC COMPANY: COMPANY SNAPSHOT  
FIGURE 49 GENERAL ELECTRIC COMPANY: SWOT ANALYSIS  
FIGURE 50 CREE, INC.: COMPANY SNAPSHOT  
FIGURE 51 EVERLIGHT ELECTRONICS CO. LTD.: COMPANY SNAPSHOT

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