

# **Grow Lights Market by Offering (Hardware, Software, Services), Watt, Spectrum, Cultivated Plant, Lighting Type, Light Source, Installation Type, Sales Channel, Application (Greenhouse, Indoor Farm, Vertical Farm) and Region - Global Forecast to 2028**

<https://marketpublishers.com/r/G4D3ACA78F3EN.html>

Date: March 2023

Pages: 249

Price: US\$ 4,950.00 (Single User License)

ID: G4D3ACA78F3EN

## **Abstracts**

The global grow lights market was valued at USD 1.5 billion in 2022 and is projected to reach USD 7.2 billion by 2028; registering a CAGR of 30.7% during the forecast period. High potential capacity of LED grow lights enabling farmers to produce same quality crops all year round irrespective of weather conditions is driving the growth of the grow lights market, whereas High setup and installation costs of LED grow lights are restraining the growth of grow lights market.

Software & services segment is expected to grow at higher CAGR during forecast period

The software & service segment is expected to experience the highest CAGR of 35.1% during the forecast period. Different kinds of software solutions are used in grow light systems to improve plant quality and fulfil different light requirements by different plants, as well as create and maintain an optimal lighting environment necessary to maximize production. Along with software, maintenance and repair services are also offered by the companies operating in the grow lights market..

>300 Watt segment by wattage to register growth at higher CAGR

>300 Watt segment is expected to experience the higher CAGR of 31.9% % during the forecast period. The >300W grow lights are ideally good for different types of grow rooms, particularly the ones that need specific care and more focused light on the plants

without causing a risk of overheating inside the tent. >300-watt grow lights offer a full-spectrum light, which is safe for all stages of growing plants. Ecosystem player such as Signify Holding, ams-OSRAM AG, Gavita International B.V., Heliospectra AB, California LightWorks etc offer >300-watt grow lights. For instance, Signify Holding introduced a new Philips GreenPower LED production module 3.0 (49–635 watt) to help growers optimize multilayer crop cultivation of lettuce and other leafy greens, herbs, soft fruits, and young plants. The new module enables growers to adapt the color spectrum easily to meet the needs of different crops and growth phases.

Full spectrum segment is likely to grow at higher CAGR

The full spectrum segment is anticipated to record the higher CAGR of 40.4% during the forecast period. The full-spectrum light source is becoming popular due to various advantages associated with it, such as it allows quick changes in lighting conditions and complete control of the color spectrum ratio. They closely mimics the natural sunlight by using a combination of all colors at all stages of growth. Full spectrum lighting can also pace up or slow growth rate, enhance root development, improve nutrition, and color etc. These factors are contributing to the growth of the full spectrum grow lights in the grow lights market.

Direct sales channels segment to register significant growth during forecast period

Direct sales channels segment is expected to grow at the fastest CAGR of 44.6% during the forecast period. Direct sales channels allow companies to control all aspects of product distribution and the customer experience. Since the customer always deals directly with the supplier, the direct sales channels help resolve these issues more efficiently. Also, it saves time as consider to the distribution or e-commerce sales channel. These are the factors leading to a potential growth of direct sales channels in the grow lights market.

Inter-lighting segment is likely to grow at higher CAGR

The inter-lighting segment is expected to experience the higher CAGR of 35.4% during the forecast period. The inter-lighting supplies energy to lower portions of the plant which are blocked from the top lights by the canopy of the plant. With inter-lighting it is possible to provide light between the plants, without unwanted heat generation. This has major advantages as all the plants can be lit at the points where they gain most benefit.

### Retrofit installations segment is likely to grow at higher CAGR

The retrofit installations segment is expected to experience the second highest CAGR of 38.7% during the forecast period. Generally a lifespan of a grow light is approximately for 5 years. For new installation, down the line after 5 years the requirement for updated version of grow lights will occur, enabling retrofitting to propel in the future. Also, the introduction of new grow light technologies such as LED, plasma, and induction has provided growers with more options to choose from while retrofitting their grow light systems. Additionally, the increasing adoption of hybrid lighting systems in greenhouse applications is expected to contribute to the growth of the market for retrofit installations. With the low-cost retrofit installation of grow lights, growers can enhance profits and yields.

### Cannabis cultivated plants segment is likely to grow at higher CAGR

Cannabis segment is expected to experience the highest CAGR of 36.1% during the forecast period. This growth is attributed to the legalisation of cannabis growth for medicinal uses by various regional government.

### Vertical farms application is likely to grow at highest CAGR

Vertical farming segment is expected to grow at the highest CAGR 33.9% during the forecast period. The rapidly growing vertical farming industry is the major reason for the growing interest of larger corporations toward investments in vertical farms. Toshiba Corporation (Japan) and Panasonic Corporation (Japan) have started providing financial and technical assistance to growers to set up vertical farms in various parts of the world. General Electric Company (US), a major provider of grow light systems, is partnering with Mirai, Inc. (Japan) in establishing a chain of vertical farms across multiple cities in Japan. Such developments in vertical farming are likely to boost the demand for grow lights in the coming years.

### RoW to register growth at second highest CAGR

RoW is expected to witness the second highest CAGR of 30.3% during the forecast period. The Middle East is likely to capture the largest size of the RoW grow lights market during the forecast period. This region has started adopting urban farming methodologies to grow food locally and meet the demands of the rising population. Water scarcity is prevalent in the Middle East, and the temperatures vary between extreme hot during the day to extreme cold at night. Hence, by using hydroponic

medium and LED grow lights, indoor farms and vertical farms are being developed in the Middle East to cultivate fruits and vegetables so that water evaporation can be avoided in a controlled environment.

### Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type - Tier 1 – 35%, Tier 2 – 45%, Tier 3 – 20%

By Designation— C-level Executives - 40%, Managers - 30%, Others - 30%

By Region—North America - 40%, Europe - 20%, Asia Pacific - 30%, RoW - 10%

The grow lights market is dominated by a few globally established players such as Signify Holding (Netherlands), Gavita International B.V. (Netherlands), GE Lighting (US), Current (US), ams-OSRAM AG (Styria), Heliopsetra AB (Sweden), California LightWorks (US), Valoya Oy (Finland), EYE Hortilux (US), Hortilux Schröder (Netherlands). The study includes an in-depth competitive analysis of these key players in the grow lights market, with their company profiles, recent developments, and key market strategies.

### Research Coverage:

The report segments the grow lights market and forecasts its size, by offering, by wattage, spectrum, cultivated plant, lighting type, light source, application, installation type, sales channel, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—North America, Europe, Asia Pacific, and RoW. Supply chain analysis has been included in the report, along with the key players and their competitive analysis in the grow lights ecosystem

### Key Benefits to Buy the Report:

Analysis Of key drivers: (Heightened demand for fresh food and loss of arable land, strong government support for adoption of solid-state lighting technology and controlled-environment agriculture (CEA) practices, increased investments

in establishing vertical farms and greenhouses and associated advanced technologies, significant benefits such as energy-efficiency and longer life associated with LED grow lights over conventional lighting technologies, high potential capacity of LED grow lights enabling farmers to produce same quality crops all year round irrespective of weather conditions). Restraint (High setup and installation costs of LED grow lights and complex requirement for varied light spectrums for different crops). Opportunity (Growing acceptance of farm-to-table trend, legalization of cannabis in different countries, automation in lighting fixtures and technological advancements in LED grow lights, potential opportunities in Asian and Middle Eastern markets for vertical farming, integration of hardware, software, and data analytics platform for horticulture yield estimation and energy conservation). Challenges (Grow lights placement and positioning, need for technical know-how and complexities associated with deployment of CEA technology, absence of standard testing practices for accessing product quality of horticulture lights and their fixtures, and difficulties in integrating different components and technologies in CEA facilities)

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the grow lights market

**Market Development:** Comprehensive information about lucrative markets – the report analyses the grow lights market across varied regions

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the grow lights market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and service offerings of leading players like Signify Holding (Netherlands), Gavita International B.V. (Netherlands), GE Lighting (US), Current (US), ams-OSRAM AG (Styria), Heliopsetra AB (Sweden), California LightWorks (US), Valoya Oy (Finland), EYE Hortilux (US), Hortilux Schröder (Netherlands) among others in the grow lights market.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

##### 1.2.1 INCLUSIONS & EXCLUSIONS

#### 1.3 STUDY SCOPE

##### 1.3.1 MARKETS COVERED

#### FIGURE 1 GROW LIGHTS MARKET SEGMENTATION

##### 1.3.2 GEOGRAPHIC SCOPE

##### 1.3.3 YEARS CONSIDERED

#### 1.4 CURRENCY

#### 1.5 STAKEHOLDERS

#### 1.6 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 GROW LIGHTS MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY AND PRIMARY RESEARCH

##### 2.1.2 SECONDARY DATA

###### 2.1.2.1 List of key secondary sources

###### 2.1.2.2 Key data from secondary sources

##### 2.1.3 PRIMARY DATA

###### 2.1.3.1 List of key primary interview participants

###### 2.1.3.2 Breakdown of primaries

#### FIGURE 3 BREAKDOWN OF PRIMARIES

###### 2.1.3.3 Key data from primary sources

###### 2.1.3.4 Key industry insights

#### 2.2 FACTOR ANALYSIS

##### 2.2.1 SUPPLY-SIDE ANALYSIS

#### FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (SUPPLY-SIDE ANALYSIS) – REVENUES GENERATED BY COMPANIES FROM SALES OF PRODUCTS OFFERED IN GROW LIGHTS MARKET

#### FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (TOP-DOWN APPROACH, SUPPLY-SIDE ANALYSIS) – ILLUSTRATION OF REVENUE ESTIMATION IN GROW LIGHTS MARKET

#### 2.3 MARKET SIZE ESTIMATION

**FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY-SIDE ANALYSIS****2.3.1 BOTTOM-UP APPROACH**

2.3.1.1 Approach for obtaining market shares using bottom-up approach (demand side)

**FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH****2.3.2 TOP-DOWN APPROACH**

2.3.2.1 Approach for obtaining market shares using top-down approach (supply side)

**FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH****2.3.3 GROWTH PROJECTIONS AND FORECASTING ASSUMPTIONS****TABLE 1 MARKET GROWTH ASSUMPTIONS****2.4 MARKET BREAKDOWN AND DATA TRIANGULATION****FIGURE 9 GROW LIGHTS MARKET: DATA TRIANGULATION****2.5 ASSUMPTIONS****TABLE 2 KEY ASSUMPTIONS: MACRO AND MICRO-ECONOMIC ENVIRONMENT****2.6 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON GROW LIGHTS MARKET****TABLE 3 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON GROW LIGHTS MARKET****2.7 LIMITATIONS****2.8 RISK ASSESSMENT****TABLE 4 RISK ASSESSMENT: GROW LIGHTS MARKET****3 EXECUTIVE SUMMARY**

**FIGURE 10 VERTICAL FARMING APPLICATION SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD**

**FIGURE 11 CANNABIS SEGMENT TO WITNESS HIGHEST GROWTH RATE DURING FORECAST PERIOD**

**FIGURE 12 EUROPE TO DOMINATE MARKET FOR GROW LIGHTS DURING FORECAST PERIOD**

**3.1 IMPACT OF RECESSION ON GROW LIGHTS MARKET**

**FIGURE 13 PRE- AND POST-RECESSION IMPACT ON GROW LIGHTS MARKET**

**4 PREMIUM INSIGHTS****4.1 GROWTH OPPORTUNITIES FOR PLAYERS IN GROW LIGHTS MARKET**

**FIGURE 14 FACTORS SUCH AS HIGH DEMAND FOR FRESH FOOD AND LOSS OF ARABLE LAND TO DRIVE GROW LIGHTS MARKET**

**4.2 GROW LIGHTS MARKET, BY OFFERING**

FIGURE 15 SOFTWARE & SERVICES TO GROW AT HIGHER CAGR DURING FORECAST PERIOD

4.3 GROW LIGHTS MARKET, BY SALES CHANNEL

FIGURE 16 DIRECT SALES CHANNELS TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

4.4 GROW LIGHTS MARKET, BY WATTAGE

FIGURE 17 >300-WATT GROW LIGHTS TO DOMINATE MARKET IN 2028

4.5 GROW LIGHTS MARKET, BY INSTALLATION TYPE

FIGURE 18 RETROFIT INSTALLATIONS TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

4.6 GROW LIGHTS MARKET, BY SPECTRUM

FIGURE 19 FULL-SPECTRUM LIGHTS TO REGISTER HIGHER GROWTH RATE DURING FORECAST PERIOD

4.7 GROW LIGHTS MARKET, BY REGION

FIGURE 20 EUROPE TO DOMINATE MARKET IN 2028

4.8 GROW LIGHTS MARKET, BY COUNTRY

FIGURE 21 SOUTHEAST ASIAN COUNTRIES TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

## **5 MARKET OVERVIEW**

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 22 GROW LIGHTS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 High demand for fresh food and loss of arable land

FIGURE 23 POPULATION VS. ARABLE LAND, 2020–2050

5.2.1.2 Strong government support for adoption of solid-state lighting technology and controlled-environment agriculture (CEA) practices

TABLE 5 INCENTIVES IN US STATES FOR ADOPTION OF LED GROW LIGHTS

5.2.1.3 Increased investments in establishing vertical farms and greenhouses and associated advanced technologies

TABLE 6 LIST OF NOTICEABLE INVESTMENTS IN VERTICAL AND GREENHOUSE FARMING

5.2.1.4 Significant benefits such as energy efficiency and longer life associated with LED grow lights over conventional lighting technologies

TABLE 7 TYPICAL SPECIFICATIONS OF LED VS. HID

TABLE 8 REDUCTIONS IN HARVEST CYCLE USING LED HORTICULTURE



## LIGHTING ON CANNABIS STRAINS

5.2.1.5 High potential of LED grow lights in enabling farmers to produce quality crops all year round irrespective of weather conditions

### FIGURE 24 IMPACT OF DRIVERS ON GROW LIGHTS MARKET

#### 5.2.2 RESTRAINTS

5.2.2.1 High setup and installation costs of LED grow lights

5.2.2.2 Complex requirements for varied light spectrums for different crops

### TABLE 9 STANDARD SPECTRUMS

### FIGURE 25 IMPACT OF RESTRAINTS ON GROW LIGHTS MARKET

#### 5.2.3 OPPORTUNITIES

5.2.3.1 Growing acceptance of farm-to-table trend

5.2.3.2 Legalization of cannabis in different countries

5.2.3.3 Automation in lighting fixtures and technological advancements in LED grow lights

5.2.3.4 Potential opportunities in Asian and Middle Eastern markets for vertical farming

5.2.3.5 Integration of hardware, software, and data analytics platforms for horticulture yield estimation and energy conservation

### FIGURE 26 IMPACT OF OPPORTUNITIES ON GROW LIGHTS MARKET

#### 5.2.4 CHALLENGES

5.2.4.1 Grow lights placement and positioning

5.2.4.2 Need for technical know-how and complexities associated with deployment of CEA technology

5.2.4.3 Absence of standard testing practices for assessing product quality of horticulture lights and fixtures

5.2.4.4 Difficulties in integrating different components and technologies in CEA facilities

### FIGURE 27 IMPACT OF CHALLENGES ON GROW LIGHTS MARKET

## 5.3 SUPPLY CHAIN ANALYSIS

### FIGURE 28 SUPPLY CHAIN OF GROW LIGHTS MARKET

### TABLE 10 GROW LIGHTS MARKET: ECOSYSTEM

5.3.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR PLAYERS IN GROW LIGHTS MARKET

### FIGURE 29 REVENUE SHIFT IN GROW LIGHTS MARKET

## 5.4 GROW LIGHTS MARKET ECOSYSTEM

### FIGURE 30 ECOSYSTEM OF GROW LIGHTS

## 5.5 AVERAGE SELLING PRICE ANALYSIS

5.5.1 AVERAGE SELLING PRICE OF GROW LIGHTS OFFERED BY KEY PLAYERS

### FIGURE 31 AVERAGE SELLING PRICE OF GROW LIGHTS OFFERED BY KEY

## PLAYERS

TABLE 11 AVERAGE SELLING PRICE OF GROW LIGHTS, BY LIGHT SOURCE (USD)

5.5.2 AVERAGE SELLING PRICE TREND

TABLE 12 AVERAGE PRICE: GROW LIGHTS, BY LIGHT SOURCE (USD)

FIGURE 32 AVERAGE PRICE: GROW LIGHTS, BY LIGHT SOURCE (USD)

5.6 KEY STAKEHOLDERS & BUYING CRITERIA

5.6.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 33 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP APPLICATIONS

TABLE 13 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP APPLICATIONS (%)

5.6.2 BUYING CRITERIA

FIGURE 34 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

TABLE 14 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

5.7 TECHNOLOGY TRENDS

5.7.1 FULL-SPECTRUM LED GROW LIGHT SYSTEMS

5.7.2 SOLID-STATE LIGHTING TECHNOLOGY

5.7.3 ADVANCED UV LED TECHNOLOGY FOR HORTICULTURAL APPLICATIONS

5.7.4 CENTRALIZED POWER SUPPLY

5.8 PORTER'S FIVE FORCES ANALYSIS

TABLE 15 GROW LIGHTS MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 35 PORTER'S FIVE FORCES ANALYSIS

5.8.1 THREAT OF NEW ENTRANTS

5.8.2 THREAT OF SUBSTITUTES

5.8.3 BARGAINING POWER OF SUPPLIERS

5.8.4 BARGAINING POWER OF BUYERS

5.8.5 INTENSITY OF COMPETITIVE RIVALRY

5.9 CASE STUDIES

5.9.1 FASTER FINISHING AND ENHANCED VARIEGATION WITH PHILIPS LED GROW LIGHTS

5.9.2 LJUST?RDA ACHIEVED ULTIMATE VERTICAL GROWTH FROM 0 TO 7,000 SQ. M. USING LED LIGHTING SOLUTIONS FROM HELIOSPECTRA

5.9.3 TOMATO GRAFTING AND HEALING WITH HELIOSPECTRA'S LED GROW LIGHTS

5.9.4 GAINING CUSTOMER APPRECIATION ABOUT QUALITY OF PLANTS GROWN UNDER PHILIPS LEDS

5.10 TRADE ANALYSIS

5.10.1 IMPORT SCENARIO

TABLE 16 IMPORT DATA, BY COUNTRY, 2017–2021 (USD MILLION)

5.10.2 EXPORT SCENARIO

TABLE 17 EXPORT DATA, BY COUNTRY, 2017–2021 (USD MILLION)

5.11 PATENT ANALYSIS, 2012–2022

FIGURE 36 NUMBER OF PATENTS GRANTED FOR GROW LIGHTS, 2012–2022

FIGURE 37 REGIONAL ANALYSIS OF PATENTS GRANTED FOR GROW LIGHT SOLUTIONS, 2022

TABLE 18 LIST OF PATENTS PERTAINING TO GROW LIGHTS MARKET, 2021–2022

5.12 KEY CONFERENCES & EVENTS, 2023–2024

TABLE 19 GROW LIGHTS MARKET: DETAILED LIST OF CONFERENCES & EVENTS

5.13 STANDARDS AND REGULATORY LANDSCAPE

5.13.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 20 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 21 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 22 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 23 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.13.2 STANDARDS

5.14 TARIFF ANALYSIS

TABLE 24 TARIFFS FOR HS CODE 9405 EXPORTED BY CHINA (2021)

TABLE 25 TARIFFS FOR HS CODE 9405 EXPORTED BY US (2021)

## **6 GROW LIGHTS MARKET, BY OFFERING**

6.1 INTRODUCTION

FIGURE 38 HARDWARE OFFERINGS TO DOMINATE GROW LIGHTS MARKET DURING FORECAST PERIOD

TABLE 26 GROW LIGHTS MARKET, BY OFFERING, 2019–2022 (USD MILLION)

TABLE 27 GROW LIGHTS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 28 GROW LIGHTS MARKET, BY OFFERING, 2019–2022 (THOUSAND UNITS)

TABLE 29 GROW LIGHTS MARKET, BY OFFERING, 2023–2028 (THOUSAND UNITS)

6.2 HARDWARE

## 6.2.1 LARGE NUMBER OF MANUFACTURING COMPANIES PROVIDING GROW LIGHTS AS HARDWARE COMPONENTS TO DRIVE MARKET GROWTH

TABLE 30 GROW LIGHTS MARKET FOR HARDWARE, BY REGION, 2019–2022 (USD MILLION)

TABLE 31 GROW LIGHTS MARKET FOR HARDWARE, BY REGION, 2023–2028 (USD MILLION)

TABLE 32 GROW LIGHTS MARKET FOR HARDWARE, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 33 GROW LIGHTS MARKET FOR HARDWARE, BY APPLICATION, 2023–2028 (USD MILLION)

## 6.3 SOFTWARE & SERVICES

### 6.3.1 GROWING USE OF SOFTWARE SOLUTIONS TO IMPROVE PLANT QUALITY TO BOOST MARKET

TABLE 34 GROW LIGHTS MARKET FOR SOFTWARE & SERVICES, BY REGION, 2019–2022 (USD MILLION)

TABLE 35 GROW LIGHTS MARKET FOR SOFTWARE & SERVICES, BY REGION, 2023–2028 (USD MILLION)

TABLE 36 GROW LIGHTS MARKET FOR SOFTWARE & SERVICES, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 37 GROW LIGHTS MARKET FOR SOFTWARE & SERVICES, BY APPLICATION, 2023–2028 (USD MILLION)

## 7 GROW LIGHTS MARKET, BY WATTAGE

### 7.1 INTRODUCTION

FIGURE 39 GROW LIGHTS MARKET, BY WATTAGE

FIGURE 40 >300-WATT GROW LIGHTS TO ACCOUNT FOR LARGEST MARKET SHARE IN 2028

TABLE 38 GROW LIGHTS MARKET, BY WATTAGE, 2019–2022 (USD MILLION)

TABLE 39 GROW LIGHTS MARKET, BY WATTAGE, 2023–2028 (USD MILLION)

### 7.2 300-WATT GROW LIGHTS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 43 >300-WATT GROW LIGHTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

## 8 GROW LIGHTS MARKET, BY SPECTRUM

### 8.1 INTRODUCTION

FIGURE 41 LIMITED-SPECTRUM GROW LIGHTS TO HOLD LARGEST SHARE OF

## MARKET DURING FORECAST PERIOD

TABLE 44 GROW LIGHTS MARKET, BY SPECTRUM, 2019–2022 (USD MILLION)

TABLE 45 GROW LIGHTS MARKET, BY SPECTRUM, 2023–2028 (USD MILLION)

### 8.2 FULL SPECTRUM

8.2.1 ADVANTAGES SUCH AS ENHANCED ROOT DEVELOPMENT AND IMPROVED NUTRITION AND COLOR TO DRIVE ADOPTION OF FULL-SPECTRUM LIGHTS

### 8.3 LIMITED SPECTRUM

8.3.1 ADVANTAGES SUCH AS HIGH EFFICIENCY FOR PLANT GROWTH AND ENERGY EFFICIENCY TO BOOST MARKET

## **9 GROW LIGHTS MARKET, BY CULTIVATED PLANT**

### 9.1 INTRODUCTION

FIGURE 42 FRUITS & VEGETABLES TO DOMINATE GROW LIGHTS MARKET DURING FORECAST PERIOD

TABLE 46 GROW LIGHTS MARKET, BY CULTIVATED PLANT, 2019–2022 (USD MILLION)

TABLE 47 GROW LIGHTS MARKET, BY CULTIVATED PLANT, 2023–2028 (USD MILLION)

### 9.2 FRUITS & VEGETABLES

9.2.1 INCREASED DEMAND FOR HIGH-QUALITY ORGANIC FRUITS & VEGETABLES TO PROMOTE ADOPTION OF GROW LIGHTS

TABLE 48 GROW LIGHTS MARKET FOR FRUITS & VEGETABLES, BY REGION, 2019–2022 (USD MILLION)

TABLE 49 GROW LIGHTS MARKET FOR FRUITS & VEGETABLES, BY REGION, 2023–2028 (USD MILLION)

### 9.3 FLOWERS

9.3.1 EUROPE TO CAPTURE SIGNIFICANT SHARE OF GROW LIGHTS MARKET FOR FLOWERS IN COMING YEARS

TABLE 50 GROW LIGHTS MARKET FOR FLOWERS, BY REGION, 2019–2022 (USD MILLION)

TABLE 51 GROW LIGHTS MARKET FOR FLOWERS, BY REGION, 2023–2028 (USD MILLION)

### 9.4 CANNABIS

9.4.1 LEGALIZATION OF CANNABIS FOR MEDICINAL PURPOSES TO DRIVE MARKET GROWTH

TABLE 52 GLOBAL CANNABIS CONSUMPTION

TABLE 53 GROW LIGHTS MARKET FOR CANNABIS, BY REGION, 2019–2022 (USD

MILLION)

TABLE 54 GROW LIGHTS MARKET FOR CANNABIS, BY REGION, 2023–2028 (USD MILLION)

## **10 GROW LIGHTS MARKET, BY INSTALLATION TYPE**

### 10.1 INTRODUCTION

FIGURE 43 RETROFIT INSTALLATIONS TO REGISTER HIGHER GROWTH RATE DURING FORECAST PERIOD

TABLE 55 GROW LIGHTS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 56 GROW LIGHTS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

### 10.2 NEW INSTALLATIONS

10.2.1 GROWING POPULARITY OF VERTICAL AND INDOOR FARMING TO DRIVE DEMAND FOR NEW INSTALLATIONS OF GROW LIGHTS

TABLE 57 GROW LIGHTS MARKET FOR NEW INSTALLATIONS, BY REGION, 2019–2022 (USD MILLION)

TABLE 58 GROW LIGHTS MARKET FOR NEW INSTALLATIONS, BY REGION, 2023–2028 (USD MILLION)

### 10.3 RETROFIT INSTALLATIONS

10.3.1 BENEFITS SUCH AS IMPROVED PLANT QUALITY AND REDUCED MAINTENANCE COSTS TO BOOST ADOPTION OF RETROFIT INSTALLATIONS

TABLE 59 GROW LIGHTS MARKET FOR RETROFIT INSTALLATIONS, BY REGION, 2019–2022 (USD MILLION)

TABLE 60 GROW LIGHTS MARKET FOR RETROFIT INSTALLATIONS, BY REGION, 2023–2028 (USD MILLION)

## **11 GROW LIGHTS MARKET, BY LIGHTING TYPE**

### 11.1 INTRODUCTION

FIGURE 44 TOPLIGHTING SEGMENT TO ACCOUNT FOR LARGEST SHARE OF MARKET DURING FORECAST PERIOD

TABLE 61 GROW LIGHTS MARKET, BY LIGHTING TYPE, 2019–2022 (USD MILLION)

TABLE 62 GROW LIGHTS MARKET, BY LIGHTING TYPE, 2023–2028 (USD MILLION)

### 11.2 TOPLIGHTING

11.2.1 GROWING ADOPTION OF GROW LIGHT SOLUTIONS IN GREENHOUSE

## AGRICULTURE TO FAVOR MARKET GROWTH

TABLE 63 TOPLIGHTING GROW LIGHTS MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 64 TOPLIGHTING GROW LIGHTS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 11.3 INTERLIGHTING

11.3.1 ABILITY OF INTERLIGHTING TO PROVIDE LIGHT BETWEEN PLANTS WITHOUT UNWANTED HEAT GENERATION TO BOOST DEMAND

TABLE 65 INTERLIGHTING GROW LIGHTS MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 66 INTERLIGHTING GROW LIGHTS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 12 GROW LIGHTS MARKET, BY LIGHT SOURCE

### 12.1 INTRODUCTION

#### 12.2 LIGHT-EMITTING DIODES (LED)

12.2.1 GROWING ADOPTION OF LED LIGHTS IN INDOOR FARMING DUE TO LONG LIFESPAN, SPECTRUM ADJUSTABILITY, AND ENERGY EFFICIENCY TO BOOST MARKET

TABLE 67 COMPARISON OF DIFFERENT LIGHT SOURCES

#### 12.3 FLUORESCENT LIGHTS

##### 12.3.1 T5 FLUORESCENT LIGHTS

12.3.1.1 Growing health concerns to propel demand for fluorescent lights for indoor gardening

##### 12.3.2 COMPACT FLUORESCENT LAMPS (CFLS)

12.3.2.1 Rising use of CFLs to grow herbs and plants in small spaces to drive growth

#### 12.4 HIGH-INTENSITY DISCHARGE (HID) LIGHTS

##### 12.4.1 HIGH-PRESSURE SODIUM (HPS) LAMPS

12.4.1.1 Ability to ensure uniform distribution of light across crops to drive demand for HPS lamps

##### 12.4.2 METAL-HALIDE (MH) LAMPS

12.4.2.1 Benefits during initial vegetative stage of plant growth to boost adoption of metal-halide lamps

## 13 GROW LIGHTS MARKET, BY SALES CHANNEL

### 13.1 INTRODUCTION

FIGURE 45 DIRECT SALES CHANNELS TO REGISTER HIGHEST GROWTH RATE

DURING FORECAST PERIOD

TABLE 68 GROW LIGHTS MARKET, BY SALES CHANNEL, 2019–2022 (USD MILLION)

TABLE 69 GROW LIGHTS MARKET, BY SALES CHANNEL, 2023–2028 (USD MILLION)

13.2 DISTRIBUTION CHANNELS

13.2.1 RISING DEMAND FOR AFTER-SALES SERVICES TO DRIVE MARKET FOR DISTRIBUTION CHANNELS

13.3 E-COMMERCE CHANNELS

13.3.1 GROWING PREFERENCE FOR THIRD-PARTY E-COMMERCE PLATFORMS BY SMALL GROWERS/HOME-BASED GROWERS TO BOOST MARKET

13.4 DIRECT SALES CHANNELS

13.4.1 GROWING CONCERNS REGARDING COUNTERFEIT PRODUCTS TO BOOST SALES OF GROW LIGHTS THROUGH DIRECT SALES CHANNELS

## **14 GROW LIGHTS MARKET, BY APPLICATION**

14.1 INTRODUCTION

FIGURE 46 GROW LIGHTS MARKET, BY APPLICATION

FIGURE 47 VERTICAL FARMING TO CAPTURE LARGEST SHARE OF GROW LIGHTS MARKET DURING FORECAST PERIOD

TABLE 70 GROW LIGHTS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 71 GROW LIGHTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

14.2 GREENHOUSES

14.2.1 ABILITY OF GROW LIGHTS TO ACHIEVE HIGHER YIELDS IN GREENHOUSES TO DRIVE MARKET GROWTH

FIGURE 48 EUROPE TO CAPTURE LARGEST SHARE OF GROW LIGHTS MARKET FOR GREENHOUSES IN 2028

TABLE 72 GROW LIGHTS MARKET FOR GREENHOUSES, BY REGION, 2019–2022 (USD MILLION)

TABLE 73 GROW LIGHTS MARKET FOR GREENHOUSES, BY REGION, 2023–2028 (USD MILLION)

TABLE 74 GROW LIGHTS MARKET FOR GREENHOUSES, BY WATTAGE, 2019–2022 (USD MILLION)

TABLE 75 GROW LIGHTS MARKET FOR GREENHOUSES, BY WATTAGE, 2023–2028 (USD MILLION)

14.3 VERTICAL FARMING

14.3.1 OPTIMUM USE OF VERTICAL SPACE AND BALANCED ENERGY UTILIZATION TO CREATE DEMAND FOR GROW LIGHTS IN VERTICAL FARMING



FIGURE 49 >300-WATT GROW LIGHTS TO REGISTER LARGEST SHARE IN GROW LIGHTS MARKET FOR VERTICAL FARMS IN 2028

TABLE 76 GROW LIGHTS MARKET FOR VERTICAL FARMING, BY WATTAGE, 2019–2022 (USD MILLION)

TABLE 77 GROW LIGHTS MARKET FOR VERTICAL FARMING, BY WATTAGE, 2023–2028 (USD MILLION)

TABLE 78 GROW LIGHTS MARKET FOR VERTICAL FARMING, BY REGION, 2019–2022 (USD MILLION)

TABLE 79 GROW LIGHTS MARKET FOR VERTICAL FARMING, BY REGION, 2023–2028 (USD MILLION)

#### 14.4 INDOOR FARMING

14.4.1 INCREASED REQUIREMENT FOR FOOD TO ACCELERATE DEMAND FOR GROW LIGHTS IN INDOOR FARMING

TABLE 80 GROW LIGHTS MARKET FOR INDOOR FARMING, BY WATTAGE, 2019–2022 (USD MILLION)

TABLE 81 GROW LIGHTS MARKET FOR INDOOR FARMING, BY WATTAGE, 2023–2028 (USD MILLION)

TABLE 82 GROW LIGHTS MARKET FOR INDOOR FARMING, BY REGION, 2019–2022 (USD MILLION)

TABLE 83 GROW LIGHTS MARKET FOR INDOOR FARMING, BY REGION, 2023–2028 (USD MILLION)

#### 14.5 OTHER APPLICATIONS

TABLE 84 GROW LIGHTS MARKET FOR OTHER APPLICATIONS, BY WATTAGE, 2019–2022 (USD MILLION)

TABLE 85 GROW LIGHTS MARKET FOR OTHER APPLICATIONS, BY WATTAGE, 2023–2028 (USD MILLION)

TABLE 86 GROW LIGHTS MARKET FOR OTHER APPLICATIONS, BY REGION, 2019–2022 (USD MILLION)

TABLE 87 GROW LIGHTS MARKET FOR OTHER APPLICATIONS, BY REGION, 2023–2028 (USD MILLION)

## 15 GROW LIGHTS MARKET, BY REGION

### 15.1 INTRODUCTION

FIGURE 50 EUROPE TO HOLD LARGEST SHARE OF GROW LIGHTS MARKET DURING FORECAST PERIOD

TABLE 88 GROW LIGHTS MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 89 GROW LIGHTS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 15.2 NORTH AMERICA

**FIGURE 51 NORTH AMERICA: SNAPSHOT OF GROW LIGHTS MARKET****TABLE 90 NORTH AMERICA: GROW LIGHTS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)****TABLE 91 NORTH AMERICA: GROW LIGHTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)****TABLE 92 NORTH AMERICA: GROW LIGHTS MARKET, BY OFFERING, 2019–2022 (USD MILLION)****TABLE 93 NORTH AMERICA: GROW LIGHTS MARKET, BY OFFERING, 2023–2028 (USD MILLION)****TABLE 94 NORTH AMERICA: GROW LIGHTS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)****TABLE 95 NORTH AMERICA: GROW LIGHTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)****TABLE 96 NORTH AMERICA: GROW LIGHTS MARKET, BY CULTIVATED PLANT, 2019–2022 (USD MILLION)****TABLE 97 NORTH AMERICA: GROW LIGHTS MARKET, BY CULTIVATED PLANT, 2023–2028 (USD MILLION)****TABLE 98 NORTH AMERICA: GROW LIGHTS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)****TABLE 99 NORTH AMERICA: GROW LIGHTS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)****TABLE 100 NORTH AMERICA: GROW LIGHTS MARKET, BY LIGHTING TYPE, 2019–2022 (USD MILLION)****TABLE 101 NORTH AMERICA: GROW LIGHTS MARKET, BY LIGHTING TYPE, 2023–2028 (USD MILLION)****15.2.1 US****15.2.1.1 Significant presence of major manufacturers to drive market growth in US****15.2.2 CANADA****15.2.2.1 Legalization of cannabis to drive demand for grow lights in Canada****15.2.3 MEXICO****15.2.3.1 Extensive use of grow lights in tomato cultivation to accelerate market growth****15.3 EUROPE****FIGURE 52 EUROPE: SNAPSHOT OF GROW LIGHTS MARKET****TABLE 102 EUROPE: GROW LIGHTS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)****TABLE 103 EUROPE: GROW LIGHTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)****TABLE 104 EUROPE: GROW LIGHTS MARKET, BY OFFERING, 2019–2022 (USD**

MILLION)

TABLE 105 EUROPE: GROW LIGHTS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

FIGURE 53 GREENHOUSE APPLICATIONS IN EUROPE TO OCCUPY LARGEST MARKET SHARE IN 2028

TABLE 106 EUROPE: GROW LIGHTS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 107 EUROPE: GROW LIGHTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 108 EUROPE: GROW LIGHTS MARKET, BY CULTIVATED PLANT, 2019–2022 (USD MILLION)

TABLE 109 EUROPE: GROW LIGHTS MARKET, BY CULTIVATED PLANT, 2023–2028 (USD MILLION)

TABLE 110 EUROPE: GROW LIGHTS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 111 EUROPE: GROW LIGHTS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 112 EUROPE: GROW LIGHTS MARKET, BY LIGHTING TYPE, 2019–2022 (USD MILLION)

TABLE 113 EUROPE: GROW LIGHTS MARKET, BY LIGHTING TYPE, 2023–2028 (USD MILLION)

#### 15.3.1 UK

15.3.1.1 Large-scale indoor farming and vertical farming practices in UK to boost demand for grow lights

#### 15.3.2 GERMANY

15.3.2.1 High adoption of grow lights in commercial greenhouses to fuel growth

#### 15.3.3 NETHERLANDS

15.3.3.1 Robust agriculture industry and significant presence of key market players to augment growth

#### 15.3.4 SCANDINAVIA

15.3.4.1 Rapid adoption of grow lights in indoor farming and greenhouse applications to stimulate market growth

#### 15.3.5 REST OF EUROPE

### 15.4 ASIA PACIFIC

FIGURE 54 ASIA PACIFIC: SNAPSHOT OF GROW LIGHTS MARKET

FIGURE 55 SOUTHEAST ASIA TO ACCOUNT FOR LARGEST MARKET SHARE IN 2028

TABLE 114 ASIA PACIFIC: GROW LIGHTS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 115 ASIA PACIFIC: GROW LIGHTS MARKET, BY COUNTRY, 2023–2028  
(USD MILLION)

TABLE 116 ASIA PACIFIC: GROW LIGHTS MARKET, BY OFFERING, 2019–2022  
(USD MILLION)

TABLE 117 ASIA PACIFIC: GROW LIGHTS MARKET, BY OFFERING, 2023–2028  
(USD MILLION)

TABLE 118 ASIA PACIFIC: GROW LIGHTS MARKET, BY APPLICATION, 2019–2022  
(USD MILLION)

TABLE 119 ASIA PACIFIC: GROW LIGHTS MARKET, BY APPLICATION, 2023–2028  
(USD MILLION)

TABLE 120 ASIA PACIFIC: GROW LIGHTS MARKET, BY CULTIVATED PLANT,  
2019–2022 (USD MILLION)

TABLE 121 ASIA PACIFIC: GROW LIGHTS MARKET, BY CULTIVATED PLANT,  
2023–2028 (USD MILLION)

TABLE 122 ASIA PACIFIC: GROW LIGHTS MARKET, BY INSTALLATION TYPE,  
2019–2022 (USD MILLION)

TABLE 123 ASIA PACIFIC: GROW LIGHTS MARKET, BY INSTALLATION TYPE,  
2023–2028 (USD MILLION)

TABLE 124 ASIA PACIFIC: GROW LIGHTS MARKET, BY LIGHTING TYPE,  
2019–2022 (USD MILLION)

TABLE 125 ASIA PACIFIC: GROW LIGHTS MARKET, BY LIGHTING TYPE,  
2023–2028 (USD MILLION)

#### 15.4.1 CHINA

15.4.1.1 Robust presence of leading LED manufacturers to promote market growth in  
China

#### 15.4.2 JAPAN

15.4.2.1 Considerable shortage of arable land in Japan to boost demand for grow  
lights

#### 15.4.3 SOUTHEAST ASIA

15.4.3.1 High demand for fresh horticulture produce to fuel market growth

#### 15.4.4 AUSTRALIA

15.4.4.1 Limited rainfall to fuel adoption of grow lights for indoor farming in Australia

#### 15.4.5 REST OF ASIA PACIFIC

### 15.5 REST OF THE WORLD

TABLE 126 REST OF THE WORLD: GROW LIGHTS MARKET, BY REGION,  
2019–2022 (USD MILLION)

TABLE 127 REST OF THE WORLD: GROW LIGHTS MARKET, BY REGION,  
2023–2028 (USD MILLION)

TABLE 128 REST OF THE WORLD: GROW LIGHTS MARKET, BY OFFERING,

2019–2022 (USD MILLION)

TABLE 129 REST OF THE WORLD: GROW LIGHTS MARKET, BY OFFERING,  
2023–2028 (USD MILLION)

TABLE 130 REST OF THE WORLD: GROW LIGHTS MARKET, BY APPLICATION,  
2019–2022 (USD MILLION)

TABLE 131 REST OF THE WORLD: GROW LIGHTS MARKET, BY APPLICATION,  
2023–2028 (USD MILLION)

FIGURE 56 FRUITS & VEGETABLES SEGMENT TO OCCUPY LARGEST MARKET  
SHARE IN 2028

TABLE 132 REST OF THE WORLD: GROW LIGHTS MARKET, BY CULTIVATED  
PLANT, 2019–2022 (USD MILLION)

TABLE 133 REST OF THE WORLD: GROW LIGHTS MARKET, BY CULTIVATED  
PLANT, 2023–2028 (USD MILLION)

TABLE 134 REST OF THE WORLD: GROW LIGHTS MARKET, BY INSTALLATION  
TYPE, 2019–2022 (USD MILLION)

TABLE 135 REST OF THE WORLD: GROW LIGHTS MARKET, BY INSTALLATION  
TYPE, 2023–2028 (USD MILLION)

TABLE 136 REST OF THE WORLD: GROW LIGHTS MARKET, BY LIGHTING TYPE,  
2019–2022 (USD MILLION)

TABLE 137 REST OF THE WORLD: GROW LIGHTS MARKET, BY LIGHTING TYPE,  
2023–2028 (USD MILLION)

#### 15.5.1 MIDDLE EAST

15.5.1.1 Resource scarcity to propel adoption of grow lights in vertical farms in Middle East

#### 15.5.2 AFRICA

15.5.2.1 Harsh weather conditions to promote implementation of grow lights

#### 15.5.3 SOUTH AMERICA

15.5.3.1 Vertical coffee farming in Brazil to provide lucrative opportunities for grow lights market

## 16 COMPETITIVE LANDSCAPE

### 16.1 OVERVIEW

### 16.2 MARKET EVALUATION FRAMEWORK

TABLE 138 OVERVIEW OF STRATEGIES ADOPTED BY KEY SOLUTION PROVIDERS

#### 16.2.1 PRODUCT PORTFOLIO

#### 16.2.2 REGIONAL FOCUS

#### 16.2.3 MANUFACTURING FOOTPRINT

- 16.2.4 ORGANIC/INORGANIC STRATEGIES
- 16.3 MARKET SHARE ANALYSIS, 2022
- TABLE 139 GROW LIGHTS MARKET: MARKET SHARE ANALYSIS (2022)
- 16.4 FIVE-YEAR COMPANY REVENUE ANALYSIS
- FIGURE 57 FIVE-YEAR REVENUE ANALYSIS OF TOP 2 PLAYERS IN GROW LIGHTS MARKET, 2018–2022
- 16.5 COMPANY EVALUATION QUADRANT
  - 16.5.1 STARS
  - 16.5.2 EMERGING LEADERS
  - 16.5.3 PERVASIVE PLAYERS
  - 16.5.4 PARTICIPANTS
- FIGURE 58 GROW LIGHTS MARKET: COMPANY EVALUATION QUADRANT, 2022
- 16.6 STARTUP/SMALL AND MEDIUM-SIZED ENTERPRISES (SME) EVALUATION MATRIX
  - TABLE 140 GROW LIGHTS MARKET: DETAILED LIST OF KEY STARTUPS/SMES
  - TABLE 141 STARTUPS/SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) IN GROW LIGHTS MARKET
  - TABLE 142 GROW LIGHTS MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES (APPLICATION FOOTPRINT)
  - TABLE 143 GROW LIGHTS MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES (OFFERING FOOTPRINT)
  - TABLE 144 GROW LIGHTS MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES (REGION FOOTPRINT)
    - 16.6.1 PROGRESSIVE COMPANIES
    - 16.6.2 RESPONSIVE COMPANIES
    - 16.6.3 DYNAMIC COMPANIES
    - 16.6.4 STARTING BLOCKS
- FIGURE 59 GROW LIGHTS MARKET: STARTUP/SME EVALUATION MATRIX, 2022
- 16.7 COMPANY FOOTPRINT
  - TABLE 145 COMPANY FOOTPRINT
  - TABLE 146 COMPANY-WISE OFFERING FOOTPRINT
  - TABLE 147 COMPANY-WISE APPLICATION FOOTPRINT
  - TABLE 148 COMPANY-WISE REGIONAL FOOTPRINT
- 16.8 COMPETITIVE SITUATION AND TRENDS
  - 16.8.1 PRODUCT LAUNCHES
  - TABLE 149 PRODUCT LAUNCHES, JANUARY 2020–JANUARY 2023
  - 16.8.2 DEALS
  - TABLE 150 DEALS, JANUARY 2020–JANUARY 2023

## 17 COMPANY PROFILES

### 17.1 KEY PLAYERS

(Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments)\*

#### 17.1.1 SIGNIFY HOLDING

TABLE 151 SIGNIFY HOLDING: COMPANY SNAPSHOT

FIGURE 60 SIGNIFY HOLDING: COMPANY SNAPSHOT (2022)

#### 17.1.2 GAVITA INTERNATIONAL B.V. (HAWTHORNE)

TABLE 152 GAVITA INTERNATIONAL B.V.: COMPANY SNAPSHOT

#### 17.1.3 HELIOSPECTRA AB

TABLE 153 HELIOSPECTRA AB: COMPANY SNAPSHOT

FIGURE 61 HELIOSPECTRA AB: COMPANY SNAPSHOT (2022)

#### 17.1.4 AMS-OSRAM AG

TABLE 154 AMS-OSRAM AG: COMPANY SNAPSHOT

FIGURE 62 AMS-OSRAM AG: COMPANY SNAPSHOT (2022)

#### 17.1.5 CALIFORNIA LIGHTWORKS

TABLE 155 CALIFORNIA LIGHTWORKS: COMPANY SNAPSHOT

#### 17.1.6 HORTILUX SCHR?DER (DOOL INDUSTRIES)

TABLE 156 HORTILUX SCHR?DER: COMPANY SNAPSHOT

#### 17.1.7 VALOYA OY

TABLE 157 VALOYA OY: COMPANY SNAPSHOT

#### 17.1.8 ILUMINAR LIGHTING

TABLE 158 ILUMINAR LIGHTING: COMPANY SNAPSHOT

#### 17.1.9 BRIDGELUX, INC.

TABLE 159 BRIDGELUX, INC.: COMPANY SNAPSHOT

#### 17.1.10 EYE HORTILUX (EYE LIGHTING INTERNATIONAL)

TABLE 160 EYE HORTILUX: COMPANY SNAPSHOT

\*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

### 17.2 OTHER PLAYERS

#### 17.2.1 CURRENT

TABLE 161 CURRENT: COMPANY SNAPSHOT

#### 17.2.2 PARSOURCE

TABLE 162 PARSOURCE: COMPANY SNAPSHOT

#### 17.2.3 GE LIGHTING

TABLE 163 GE LIGHTING: COMPANY SNAPSHOT

#### 17.2.4 HUBBELL

TABLE 164 HUBBELL: COMPANY SNAPSHOT

#### 17.2.5 AGROLUX

TABLE 165 AGROLUX: COMPANY SNAPSHOT

#### 17.2.6 ECONOLUX

TABLE 166 ECONOLUX: COMPANY SNAPSHOT

#### 17.2.7 OREON

TABLE 167 OREON: COMPANY SNAPSHOT

#### 17.2.8 GLACIALLIGHT INC.

TABLE 168 GLACIALLIGHT INC.: COMPANY SNAPSHOT

#### 17.2.9 FOXCONN (HON HAI PRECISION INDUSTRY CO., LTD.)

TABLE 169 FOXCONN: COMPANY SNAPSHOT

#### 17.2.10 VIVIDGRO

TABLE 170 VIVIDGRO: COMPANY SNAPSHOT

#### 17.2.11 HYPERION GROW LIGHTS

TABLE 171 HYPERION GROW LIGHTS: COMPANY SNAPSHOT

#### 17.2.12 NICHIA CORPORATION

TABLE 172 NICHIA CORPORATION: COMPANY SNAPSHOT

#### 17.2.13 EVERLIGHT ELECTRONICS CO., LTD.

TABLE 173 EVERLIGHT ELECTRONICS CO., LTD.: COMPANY SNAPSHOT

#### 17.2.14 SANANBIO

TABLE 174 SANANBIO: COMPANY SNAPSHOT

#### 17.2.15 LEDESTAR OPTO-ELECTRONICS TECH. CO., LTD.

TABLE 175 LEDESTAR OPTO-ELECTRONICS TECH. CO., LTD.: COMPANY SNAPSHOT

## **18 APPENDIX**

18.1 DISCUSSION GUIDE

18.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

18.3 CUSTOMIZATION OPTIONS

18.4 RELATED REPORTS

18.5 AUTHOR DETAILS



## I would like to order

Product name: Grow Lights Market by Offering (Hardware, Software, Services), Watt, Spectrum, Cultivated Plant, Lighting Type, Light Source, Installation Type, Sales Channel, Application (Greenhouse, Indoor Farm, Vertical Farm) and Region - Global Forecast to 2028

Product link: <https://marketpublishers.com/r/G4D3ACA78F3EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G4D3ACA78F3EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970