Smart Lighting Market by Product Type (Smart Bulbs, Fixtures, and Lighting Controls), Light Source (Fluorescent, LED, HID), Communication Technology (Wired, and Wireless), Software & Service, Application, and Geography - Global Forecast to 2022

Description:  
"Smart lighting market expected to grow at a high rate between 2016 and 2022"

The global smart lighting market is expected to be valued at USD 19.47 billion by 2022 and is expected to witness a shipment of 1.27 billion units by 2022, at a CAGR of 27.1% and 71.3%, respectively, between 2016 and 2022. The increasing consumer demand for energy-efficient lighting systems, increasing demand for intelligent solutions for street lighting systems and the development in IoT technology in the field of smart lighting are expected to drive the growth of this market. Lack of awareness regarding installation costs and payback periods, and security and privacy issues regarding network connectivity are inhibiting the growth of the smart lighting market.

"LED light source to be the leading segment of the smart lighting market and is expected to grow at the highest rate during the forecast period"

The high growth of LED light source can be attributed to the fact that it offers a wide range of advantages over conventional light sources, such as low maintenance cost, longer endurance, low power consumption, and also the gradual decrease in price of LED components.

"Europe expected to hold the largest market share during the forecast period"

The market in Europe is expected to grow at a moderate rate in the overall market till 2022. The combination of multiple factors makes Europe the most dynamic region in the smart lighting market. The reason for Europe to be the leading market is because it is home to some of the top players in the smart lighting market such as Schneider Electric SE (France), OSRAM Licht AG (Germany), Legrand SA (France), among others. Besides these, Europe has a very high standard of living among its population, and there is an increasing growth of smart homes. The European Union also has legislations for energy efficiency and smart lighting.

In the process of determining and verifying the market size for several segments and sub segments of the smart lighting gathered through the secondary research, extensive primary interviews have been conducted with key people. The breakup of the profiles of primary participants is shown below:

- By Company Type: Tier 1 - 20%, Tier 2 - 45%, and Tier 3 - 35%
- By Designation: C-Level Executives - 35%, Directors - 25%, and Others - 40%
- By Region: North America - 30%, Europe - 45%, APAC - 20%, and RoW - 5%

The geographic segmentation in the report covers the four major regions of the world, namely, North America, Europe, APAC, and RoW. The report also profiles major players in the Smart Lighting market. Some of the major players in this market are as Philips Lighting (Netherlands), Acuity Brands Lighting, Inc. (U.S.), General Electric Company (U.S.), OSRAM Licht AG (Germany), Honeywell International (U.S.), Cooper Industries, Inc. (Ireland), Digital Lumens, Inc. (U.S.), Legrand S.A. (France), Lutron Electronics Company, Inc. (U.S.), StreetLight Vision (France), Schneider Electric SE (France), and Cree, Inc. (U.S.), among others.

The product type segment in the report covers the market size for smart bulbs, fixtures, and various lighting control components of a smart lighting system. The lighting source segment covers the different types of lighting sources used for a smart lighting system, these include fluorescent type, LED type, high intensity discharge lamp types, including the ones retrofitted on previous generation lighting systems. The communication technology segment covers the different types of wired and wireless communication technology protocols used in the smart lighting market. The application segment covers the different verticals and end-users within the lighting for indoors and outdoors of the smart lighting market.

Reasons to Buy the Report:
This report caters to the needs of leading companies, industries, component manufacturers, and other related stakeholders in this market. Other parties that could benefit from the report include government bodies, environmental agencies, consulting firms, business development executives, C-level executives, and VPs. Our report would help analyze new opportunities and potential revenue sources and enhance the decision-making process for new business strategies. The quantitative and qualitative information in the report, along with our comprehensive analysis, would help a player to gain a competitive edge in the market.

Contents:
1 Introduction
1.1 Objectives of the Study
1.2 Market Definition
1.3 Scope of the Study
1.3.1 Markets Covered
1.3.2 Geographic Scope
1.3.3 Years Considered for the Study
1.4 Currency
1.5 Package Size
1.6 Limitations
1.7 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
2.3 Market Breakdown & Data Triangulation
2.4 Research Assumptions

3 Executive Summary

4 Premium Insights
4.1 Attractive Opportunities in the Global Smart Lighting Market
4.2 Smart Lighting Market, By Product Type
4.3 Market, By Application
4.4 Market, By Light Source
4.5 Market, By Geography

5 Market Overview
5.1 Introduction
5.2 Market Evolution
5.3 Market Segmentation
5.3.1 By Light Source
5.3.2 By Product Type
5.3.3 By Communication Technology
5.3.4 By Application
5.3.5 By Software & Service
5.3.6 By Geography
5.4 Market Dynamics: Smart Lighting Market
5.4.1 Drivers
5.4.1.1 Demand for Smart Lighting is Being Driven By the Modernization and Development of Infrastructure Such as Smart Cities
5.4.1.2 Increased Demand for Intelligent Solutions for Street Lighting Systems
5.4.1.3 Need for Energy-Efficient Lighting Systems
5.4.1.4 Acceptance of Standard Protocols for Lighting Control
5.4.2 Restraints
5.4.2.1 Lack of Awareness Regarding Installation Costs and Payback Periods
5.4.2.2 Security and Privacy Issues Inhibit the Growth of Smart Lighting
5.4.3 Opportunities
5.4.3.1 Development of Wireless Technology for Smart Lighting Systems
5.4.3.2 Adoption of Smart Lighting for Smart Cities
5.4.3.3 Consumer Awareness About the Importance of Energy Saving
5.4.3.4 Development of IoT Technology in the Field of Smart Lighting
5.4.4 Challenges
5.4.4.1 Lack of Common Open Standards

6 Industry Trends
6.1 Introduction
6.2 Value Chain Analysis
6.2.1 Research and Development
6.2.2 Smart Lighting Original Equipment Manufacturers
6.2.3 Key Technology Providers/System Integrators
6.2.4 Distributors/Marketing
6.3 Key Industry Trends
6.4 Porter’s Five Forces Analysis
6.4.1 Bargaining Power of Suppliers
6.4.2 Bargaining Power of Buyers
6.4.3 Threat of New Entrants
6.4.4 Threat of Substitutes
6.4.5 Competitive Rivalry

7 Smart Lighting Market, By Light Source
7.1 Introduction
7.1.1 Fluorescent Lamps (FL)
7.1.1.1 Compact Fluorescent Lamps (CFL)
7.1.2 Light Emitting Diode (LED)
7.1.3 High-Intensity Discharge Lamps (HID)
7.1.4 Others

8 Smart Lighting Market, By Product Type
8.1 Introduction
8.2 Luminaries
8.2.1 Smart Bulbs
8.2.2 Fixtures
8.3 Lighting Controls
8.3.1 LED Drivers & Ballasts
8.3.2 Sensors
8.3.3 Switches & Dimmers
8.3.4 Relay Units
8.3.5 Gateways

9 Smart Lighting Market, By Communication Technology
9.1 Introduction
9.2 Wired Communication Technologies
9.2.1 Digital Addressable Lighting Interface (DALI)
9.2.2 Powerline Communication (PLC)
9.2.3 Power Over Ethernet (POE)
9.2.4 Wired Hybrid Protocols
9.2.5 Others
9.2.5.1 Proprietary Protocols
9.2.5.2 Knx
9.2.5.3 Lonworks
9.3 Wireless Connectivity Technologies
9.3.1 Zigbee
9.3.2 Bluetooth/Ble
9.3.3 Enocean
9.3.4 Wi-Fi
9.3.5 6lowpan
9.3.6 Wireless Hybrid Protocols
9.3.7 Others

10 Smart Lighting Market, By Application
10.1 Introduction
10.1.1 Indoor Lighting
10.1.1.1 Residential
10.1.1.1.1 Increasing Standard of Living
10.1.1.2 Commercial
10.1.1.2.1 Office Lighting
10.1.1.2.2 Retail
10.1.1.2.3 Hospitality
10.1.1.3 Industrial
10.1.1.3.1 Safety of Workers in Industrial Areas
10.1.1.4 Others
10.1.1.4.1 Government & Public Places
10.1.2 Outdoor Lighting
10.1.2.1 Highways & Roadways Lighting
10.1.2.1.1 Different Lighting Controls for Different Types of Roads, Bridges, and Tunnels
10.1.2.2 Architectural Lighting
10.1.2.3 Lighting for Public Places
10.1.2.4 Others

11 Smart Lighting Market, By Software & Service
11.1 Introduction
11.2 Software & Service
11.2.1 Smartphone Application
11.2.2 Lighting as A Service

12 Geographic Analysis
12.1 Introduction
12.2 North America
12.2.1 U.S.
12.2.1.1 Building Codes Expected to Boost the Adoption of New Technologies in Light Switches
12.2.2 Canada
12.2.2.1 Growing Adoption of LED Lighting Systems
12.3 Europe
12.3.1 U.K.
12.3.1.1 Demand for Energy-Saving and Long-Lasting Lighting Systems Driving the Market in the U.K.
12.3.2 Germany
12.3.2.1 High Demand for Smart Homes Driving the Market in Germany
12.3.3 France
12.3.3.1 Growing Awareness Toward Energy Conservation
12.3.4 Italy
12.3.4.1 High Demand From the Rebounding Construction Sector
12.3.5 Rest of Europe
12.3.5.1 Increasing Investments to Fuel the Growth of This Market in the Future
12.3.5.2 Spain
12.3.5.2.1 Government Regulations for Reducing Emissions Driving the Adoption of Intelligent Lighting
12.4 Asia-Pacific
12.4.1 China
12.4.1.1 Increasing Government Expenditure on Public Infrastructure
12.4.2 Japan
12.4.2.1 Focus on Energy Management Solutions
12.4.3 Rest of APAC
12.4.3.1 Australia and Indonesia: Emerging Markets With Significant Potential
12.4.3.2 India: Strong Economic Outlook Expected to Drive the Growth
12.4.3.3 South Korea: Energy Efficiency Labels & Standards Program Expected to Boost Growth of Smart Lighting Systems
12.5 Rest of the World
12.5.1.1 Focus on Real Estate & Urbanization

13 Competitive Landscape
13.1 Introduction
13.2 Ranking of Market Players, 2015
13.3 Competitive Scenario and Trends
13.3.1 New Product Launches, New Product Expansions, and Patents
13.3.2 Alliances, Business Expansions, and Contracts
13.3.3 Mergers & Acquisitions

14 Company Profiles
14.1 Introduction
(Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, Ratio Analysis, View)*
14.2 Philips Lighting Holding B.V.
14.3 Acuity Brands Lighting, Inc.
14.4 General Electric Company
14.5 OSRAM Licht AG
14.6 Honeywell International Inc.
14.7 Legrand S.A.
14.8 Schneider Electric SE
14.9 CREE, Inc.
14.10 Cooper Industries, Inc.
14.11 Digital Lumens, Inc.
14.12 Lutron Electronics Co., Inc.
14.13 Streetlight.Vision

*Details on Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, MnM View Might Not Be Captured in Case of Unlisted Companies.

15 Appendix
15.1 Insights of Industry Experts
15.2 Discussion Guide

List of Tables
Table 1 Market Segmentation, By Light Source
Table 2 Market Segmentation, By Product Type
Table 3 Market Segmentation, By Communication Technology
Table 4 Market Segmentation, By Application
Table 5 Market Segmentation, By Software & Service
Table 6 Smart Lighting Market, By Light Source, 2013-2022 (USD Million)
Table 7 Market, By Light Source, 2013-2022 (Million Units)
Table 8 Market for Fluorescent Light Source, By Application, 2013-2022 (USD Million)
Table 9 Market for Fluorescent Light Source, By Application, 2013-2022 (Million Units)
Table 10 Smart Lighting Market for LED Light Source, By Application, 2013-2022 (USD Million)
Table 11 Market for LED Light Source, By Application, 2013-2022 (Million Units)
Table 12 Market for HID Light Source, By Application, 2013-2022 (USD Million)
Table 13 Market for HID Light Source, By Application, 2013-2022 (Million Units)
Table 14 Smart Lighting Market for Other Light Sources, By Application, 2013-2022 (USD Million)
Table 15 Market for Other Light Sources, By Application, 2013-2022 (Million Units)
Table 16 Market, By Product Type, 2013-2022 (USD Million)
Table 17 Market, By Product Type, 2013-2022 (Million Units)
Table 18 Smart Lighting Market, By Lighting Control, 2013-2022 (USD Million)
Table 19 Market, By Lighting Control, 2013-2022 (Million Units)
Table 20 Market, By Communication Technology, 2013-2022 (USD Million)
Table 21 Market, By Communication Technology, 2013-2022 (Million Units)
Table 22 Market, By Communication Technology Protocol, 2013-2022 (USD Million)
Table 23 Smart Lighting Market, By Wired Communication Technology Protocol, 2013-2022 (USD Million)
Table 24 Market for Wired Technologies, By Application, 2013-2022 (USD Million)
Table 25 Market for Wired Technologies, By Application, 2013-2022 (Million Units)
Table 26 Market for PLC Wired Technologies, By Application, 2013-2022 (USD Million)
Table 27 Market for Other Wired Technologies, By Application, 2013-2022 (USD Million)
Table 28 Smart Lighting Market, By Wireless Communication Technology Protocols, 2013-2022 (USD Million)
Table 29 Market for Wireless Technologies, By Application, 2013-2022 (USD Million)
Table 30 Market for Wireless Technologies, By Application, 2013-2022 (Million Units)
Table 31 Market, By Application, 2013-2022 (USD Million)
Table 32 Market, By Application, 2013-2022 (Million Units)
Table 33 Market for Indoor Lighting Applications, By Communication Technology, 2013-2022 (USD Million)
Table 34 Market for Indoor Lighting Applications, By Communication Technology, 2013-2022 (Million Units)
Table 35 Market for Indoor Lighting Applications, By Wired Communication Technology Protocol, 2013-2022 (USD Million)
Table 36 Market for Indoor Lighting Applications, By Wireless Communication Technology Protocol, 2013-2022 (USD Million)
Table 37 Smart Lighting Market for Indoor Lighting Applications, By Light Source, 2013-2022 (USD Million)
Table 38 Market for Indoor Lighting Applications, By Light Source, 2013-2022 (Million Units)
Table 39 Market for Indoor Lighting Applications, By End User, 2013-2022 (USD Million)
Table 40 Market for Indoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 41 Smart Lighting Market for Residential Indoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 42 Market for Commercial Indoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 43 Market for Industrial Indoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 44 Market for Other Indoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 45 Smart Lighting Market for Outdoor Lighting Applications, By Communication Technology, 2013-2022 (USD Million)
Table 46 Market for Outdoor Lighting Applications, By Communication Technology, 2013-2022 (Million Units)
Table 47 Market for Outdoor Lighting Applications, By Wired Communication Technology Protocol, 2013-2022 (USD Million)
Table 48 Market for Outdoor Lighting Applications, By Wireless Communication Technology Protocol, 2013-2022 (USD Million)
Table 49 Smart Lighting Market for Outdoor Lighting Applications, By Light Source, 2013-2022 (USD Million)
Table 50 Market for Outdoor Lighting Applications, By Light Source, 2013-2022 (Million Units)
Table 51 Market for Outdoor Lighting Applications, By End User, 2013-2022 (USD Million)
Table 52 Market for Outdoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 53 Market for Highways & Roadways Outdoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 54 Smart Lighting Market for Architectural Outdoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 55 Market for Public Places Outdoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 56 Market for Other Outdoor Lighting Applications, By Region, 2013-2022 (USD Million)
Table 57 Market, By Software & Service, 2013-2022 (USD Million)
Table 58 Smart Lighting Market, By Region, 2013-2022 (USD Million)
Table 59 Market, By Region, 2013-2022 (Million Units)
Table 60 Market in North America, By Application, 2013-2022 (USD Million)
Table 61 Market for Indoor Lighting Application in North America, By End User, 2013-2022 (USD Million)
Table 62 Market for Outdoor Lighting Application in North America, By Type, 2013-2022 (USD Million)
Table 63 Market in North America, By Country, 2013-2022 (USD Million)
Table 64 Smart Lighting Market in Europe, By Application, 2013-2022 (USD Million)
Table 65 Market for Indoor Lighting Application in Europe, By Type, 2013-2022 (USD Million)
Table 66 Market for Outdoor Lighting Application in Europe, By Type, 2013-2022 (USD Million)
Table 67 Market in Europe, By Country, 2013-2022 (USD Million)
Table 68 Smart Lighting Market in APAC, By Application, 2013-2022 (USD Million)
Table 69 Market for Indoor Lighting Application in APAC, By End User, 2013-2022 (USD Million)
Table 70 Market for Outdoor Lighting in APAC, By Type, 2013-2022 (USD Million)
Table 71 Market in APAC, By Country, 2013-2022 (USD Million)
Table 72 Market in RoW, By Application, 2013-2022 (USD Million)
Table 73 Smart Lighting Market for Indoor Lighting in RoW, By End User, 2013-2022 (USD Million)
Table 74 Market for Outdoor Lighting in RoW, By Type, 2013-2022 (USD Million)
Table 75 Market in RoW, By Region, 2013-2022 (USD Million)
Table 76 Ranking in the Smart Lighting Market, 2015
Table 77 New Product Launches, New Product Expansions, and Patents in Market, 2015-2016
Table 78 Alliances, Business Expansions, and Contracts in the Market, 2016
Table 79 Mergers & Acquisitions in the Market, 2015-2016

List of Figures

Figure 1 Smart Lighting Market: 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 Global Smart Lighting Market (Value and Volume), 2016-2022
Figure 6 Indoor Lighting Application to Be A Large Market By 2022
Figure 7 Wired Communication Technologies to Have A Large Market Size By 2022
Figure 65 Schneider Electric SE: Company Snapshot
Figure 66 CREE, Inc.: Company Snapshot

Ordering:

Order Online - [http://www.researchandmarkets.com/reports/3897709/](http://www.researchandmarkets.com/reports/3897709/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Smart Lighting Market by Product Type (Smart Bulbs, Fixtures, and Lighting Controls), Light Source (Fluorescent, LED, HID), Communication Technology (Wired, and Wireless), Software & Service, Application, and Geography - Global Forecast to 2022
Web Address: http://www.researchandmarkets.com/reports/3897709/
Office Code: SC2GGFQL

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Format</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User</td>
<td></td>
<td>USD 5650</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users</td>
<td></td>
<td>USD 6650</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License</td>
<td></td>
<td>USD 8150</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide</td>
<td></td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr ☐</th>
<th>Mrs ☐</th>
<th>Dr ☐</th>
<th>Miss ☐</th>
<th>Ms ☐</th>
<th>Prof ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td>Last Name:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: __________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World