Global Smart Lighting Market

Smart lighting is the technology by which lighting of houses, industries or any other public places can be controlled with the help of sensors, voice or motion control or even mobile phones for efficient power management

Smart lighting generally uses mesh networking, where each smart bulb wirelessly connects to its nearest neighbor. This network is controlled by a hub that plugs into the router, enabling other networked devices such as phone or tablet to communicate with the bulbs









Industry	Industry Focus	Other Benefits	Product Innovation
Industrial and Commercial (Warehouses, Workshops, Manufacturing plants, Offices)	 Energy efficiency Optimize maintenance costs 	 Increased employee productivity Lower carbon footprint Compliance with national and international safety standards 	 Motion sensing lights in warehouses can distinguish between human and robots and activate lights accordingly Timer controlled office lights and personalized light controls through app for your workspace.
Residential (Apartments, Bungalows, Farmhouses, Hotel rooms)	 Ambience lighting mood based lighting. Ease of living 	 Better mental health Voice and gesture controls Timers 	 Game controllers like Razer connected to house lighting to provide an ultimate gaming experience. Event based (party, get together) light adjustment with controllers such as music volume or number of people in the house.
Outdoor and Public (Municipal buildings, Museums, Roads, Parks)	 Crime detection and prevention Citizen satisfaction 	 New revenue opportunities (Advertising signage) Traffic management and parking control with sensors 	 Data Analytics – Data collected through sensors from street lights is analysed to understand areas of congestion and frequent use which is further processed to achieve energy efficiency.

Increasing demand for energy efficient lighting solutions along with increasing technological advancements across various lighting control systems is expected to drive the global smart lighting market

DRIVERS...



Increasing urbanization and construction activities facilitating transformation of cities into smart cities

Security and privacy concerns

systems: Smart lighting systems

are vulnerable to cyber-attacks

from hackers who can avail consumer data from the servers

and data centers

related to smart lighting



High demand of energy efficient lighting systems such as LED, that provide better illumination while consuming less power



Growing demand for smart intelligent street lighting systems



Growing awareness about energy savings among consumers and governments worldwide

RESTRAINTS...



High cost of installation: Even

though the smart lighting is cost efficient; cost of installation for wireless connectivity is very high making it one of the biggest limiting factors

KEY APPLICATIONS AREAS...



Smart Cities

Countries like India & China have integrated smart lighting with systems such as traffic lights, parking-lot lights, pollution sensors and energy meters



Automotive

Companies such as Audi and Mercedes-Benz are incorporating smart lighting in their luxury cars, thereby enhancing the usage of LED products based on wireless technology

Healthcare

Increasing applications of color changing LED in healthcare sector provides relaxing environment to patients during hospital visits

OPPORTUNITIES...

Industry

Deployment of IOT technology for smart lighting for industrial and government segments is still at the nascent stage and is expected to grow substantially by 2023 Segment

With the emergence of Li-Fi (Light Fidelity) technology, companies are focusing on developing products for niche markets such as horticultural lighting, human centric lighting which provides opportunities to LED providers Region

P B C

Asia Pacific provides ample opportunities due to availability of cheap labor, reduced operating costs and availability of materials to produce smart lighting systems, making it the fastest growing market across the globe

Several companies are providing innovative smart lighting solutions to increase their sales as well as customer engagement...

Market Participants...

DIGITAL LUMENS Schneider Electric

Digital Lumens has partnered with Schneider Electric, to provide end users with IoT solutions across a variety of building automation environments via Digital Lumens' sensor-based

Lumens' sensor-based connected lighting and next-generation analytics suite

OSRAM

Osram partners with Nokia for indoor 5G through the lights. Both companies together are exploring the possibility of equipping LED ceiling luminaires with 5G radio chips to transmit data inside commercial buildings



Philips lighting and Tower American Company have teamed up to make smart poles with 4G/5G gears. These street lighting poles will be integrated with 5G modules to improve wireless broadband access in dense areas and also provide quality, energy-efficient connected LED lighting



and so on ...

Key Insights

- Currently there is an increasing adoption of advanced and energy efficient lighting solutions across various applications. The growing demand for lighting systems equipped with wireless and sensor technology has further favoured the growth of the market
- Pooling lighting network with cost efficient and low power consuming LEDs has also led to the market growth. As a
 result of declining LED prices, smart-lights have become affordable to the general population
- In the future, rapid technological advancements and emergence of Li-Fi (Light Fidelity) technology is expected to boost the demand for smart lighting solutions

Datamatics Business Solutions

Datamatics Business Solutions Ltd. (DBSL) is a pioneer in providing intelligent Business Process Management (iBPM) services.

Our integrated offerings include; Database Solutions & B2B Marketing, Demand Generation & Sales Acceleration, Business Research, Finance & Accounting Outsourcing, Payroll and Contact Center Services. We leverage emerging technologies like Robotics, Machine Learning and Artificial Intelligence to power human-machine collaboration & enable seamless delivery. As a trusted partner to Fortune 1000 companies; our focus is on driving revenue growth, operational excellence, cost efficiency & customer intimacy for global clients.

We serve customers across the globe and industries like Technology, Banking & Financial Services, Media & Publishing, Events, Manufacturing, Healthcare, Automotive, Retail & CPG, Travel & Logistics and Telecom.

© Datamatics Business Solutions Ltd. All rights reserved. e: marketing@datamaticsbpm.com w: www.datamaticsbpm.com

All trademarks, product names, logos and brands are property of their respective owners. They are used in this document for identification purposes only and does not imply endorsement.