

## **Cleanroom Lighting - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029**

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### **Report description:**

The Cleanroom Lighting Market size is estimated at USD 0.84 billion in 2024, and is expected to reach USD 1.31 billion by 2029, growing at a CAGR of 5.49% during the forecast period (2024-2029).

The growing need for a controlled environment with a near-zero level of pollutants in the electronics manufacturing industry and the stringent regulations by governments across the globe in the healthcare sector and food processing industry to prevent the contamination of products is one of the primary factors driving the market.

#### Key Highlights

- The rapidly increasing demand for electronic devices has escalated the need for microprocessors, integrated chips, microcontrollers, and memory. An increase in the demand for consumer electronics is also expected to increase the manufacturing activities of semiconductors, which is expected to drive the market.
- Some important factors, such as the increasing developments in the lighting industry and the availability of a wide portfolio of products by the market players for different industries, also contribute to the market growth during the forecast period.
- In the pharmaceutical sector, the increasing need for a controlled environment that necessitates control over the concentration of microorganisms, airborne particles, temperature, humidity, and pressure is expected to drive the demand for cleanrooms, driving the market studied.
- Moreover, critical patients in the ICU and hospital medical staff are exposed to infectious microbes, which can be transmitted through water, air, or blood. Thus, the increasing need to avoid spreading any contagious microbes is one of the primary reasons for the demand for cleanrooms in hospitals.
- A notable impact of COVID-19 was observed on the global cleanroom lighting market. The supply chain disruption created due to the widespread lockdown imposed across various parts of the world significantly impacted multiple industries, especially the

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manufacturing industry, resulting in a slowdown in demand. However, the increased demand from the pharmaceutical/healthcare segment, driven by increased demand for medicines and other critical medical devices, has positively impacted the demand. -However, there are many complexities involved with cleanroom lighting. Cleanroom lighting varies depending on the room's use, its classification, and ceiling air supply configuration. Lighting systems are required to provide good visibility and be designed with contamination control issues-electromagnetic field generation and cleanability.

## Cleanroom Lighting Market Trends

### Healthcare and Life Sciences Segment is Expected to Witness Significant Growth

- The purpose of clean-room technology is to protect patients and processes against contamination of any sort. Pollution by organic or inorganic particles of matter classified as contamination is strictly monitored, no matter how small they are.
- Light in the operating room and surgery rooms requires particle density, color rendering, and adequate light levels that are extreme and absolute. The surgery is a major challenge, and lighting ensures the visual interpretation of reliable details.
- Ideally, the room should be classified according to ISO class 3, namely, have high levels of hygiene and minimum light level at 1000 lux in the operating theater. So that the surgeon can distinguish the different color gradations, the color rendering must be CRI? 90. To meet such criteria, the need for cleanroom lighting has increased significantly over the studied period.
- Modern lighting installations in medical institutions provide a lucrative opportunity for improving the performance of the facility and significantly reducing energy and maintenance costs, as the premises, such as operating rooms, laboratories, patient care rooms, etc., must work efficiently as they are used throughout the day. Also, these rooms have special requirements regarding the quality of cleanliness of luminaires and ease of maintenance.
- In July 2022, Medical Air Technology completed the second GBP 5.5 million (USD 6.8 million) project phase at Wansbeck General Hospital by installing MAT Eco-flow Stealth flush-to-ceiling UCV canopies. The UCV system in the ECO-flow Stealth draws air to each room corner to control the airflow pattern and prevent entrainment.

### Asia-Pacific is Expected to Occupy the Largest Market Share

- The Asia-Pacific region is expected to hold the largest market share during the forecast period, primarily because many biopharmaceutical companies and medical device manufacturers are seeking to expand their presence in the APAC region because of its cost advantages and favorable regulatory environment.
- The region comprises countries such as China, South Korea, Japan, Taiwan, India, Australia, and Singapore, which are expected to be the major contributors to the cleanroom lighting market in the Asia-Pacific, owing to the increased manufacturing and research activities. China is a huge market and is expected to remain the same owing to its huge electronics industry compared to other countries.
- China is a huge market for semiconductor and electronics manufacturing and is expected to remain the same owing to the presence of many manufacturers and several government-led initiatives promoting the semiconductor manufacturing industry.
- For instance, the Made in China 2025 initiative has set up broad goals for the country's semiconductor sector, including producing 70% of domestic needs within China by 2025 and reaching parity with leading-edge technology in all industry segments by 2030. Such initiatives are expected to positively impact the demand for cleanrooms and lighting solutions during the forecast period.

## Cleanroom Lighting Industry Overview

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The cleanroom lighting market is moderately competitive primarily due to the presence of many small and large manufacturers supplying their products in domestic and international markets. Major players are adopting strategies like product and service innovation and mergers and acquisitions to increase their market reach in various geographies and be competitive in the market landscape. Some of the major players in the market are Signify Holding, Wipro Lighting, Eaton Corporation Inc., and Crompton Greaves Consumer Electricals Ltd., among others.

In December 2022, Current, a US-based energy company, announced the expansion of its product portfolio by including the Lifeshield brand, which offers lighting solutions for health care, behavioral, vandal, and cleanroom environments. The light source options can also be enhanced for color performance with high efficacy 90CRI R90 TriGaintech technology and SpectraSynccolor tuning technology from Current.

In June 2022, LosmaIndia announced that the company received a turnkey project from a renowned consumer appliances manufacturer based in Mumbai, India, to build a cleanroom within their facility. According to the company, the cleanroom was to be built to adhere to ISO Class 6 of ISO 14644-1 standard. It was to be spread across 5,200 sqft and will be used for the assembly of LED screens used in televisions and desktop PCs both for domestic and export markets.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

#### **Table of Contents:**

#### 1 INTRODUCTION

##### 1.1 Study Assumptions and Market Definition

##### 1.2 Scope of the Study

#### 2 RESEARCH METHODOLOGY

#### 3 EXECUTIVE SUMMARY

#### 4 MARKET INSIGHTS

##### 4.1 Market Overview

##### 4.2 Industry Value Chain Analysis

##### 4.3 Industry Attractiveness - Porter's Five Forces Analysis

###### 4.3.1 Bargaining Power of Suppliers

###### 4.3.2 Bargaining Power of Consumers

###### 4.3.3 Threat of New Entrants

###### 4.3.4 Threat of Substitute Products

###### 4.3.5 Intensity of Competitive Rivalry

##### 4.4 Assessment of the Impact of Key Macro Economic Trends on the Industry

#### 5 MARKET DYNAMICS

##### 5.1 Market Drivers

###### 5.1.1 Stringent Regulations in Healthcare and Food Processing Industries

###### 5.1.2 Rising Demand for Sterile Manufacturing Areas in Pharmaceuticals Industry

##### 5.2 Market Restraints

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## 5.2.1 High Cost Associated With Cleanrooms and their Operations

## 6 MARKET SEGMENTATION

### 6.1 By Light Source

#### 6.1.1 LED

#### 6.1.2 Fluorescent

### 6.2 By Mounting Type

#### 6.2.1 Recessed

#### 6.2.2 Surface Mount

### 6.3 By End-user Industry

#### 6.3.1 Healthcare & Life Sciences

#### 6.3.2 Electronics and Semiconductor

#### 6.3.3 Food & Beverage

#### 6.3.4 Other End-user Industries

### 6.4 By Geography

#### 6.4.1 North America

#### 6.4.2 Europe

#### 6.4.3 Asia-Pacific

#### 6.4.4 Rest of the World

## 7 COMPETITIVE LANDSCAPE

### 7.1 Company Profiles

#### 7.1.1 Signify Holding

#### 7.1.2 Wipro Lighting

#### 7.1.3 Crompton Greaves Consumer Electricals Ltd.

#### 7.1.4 Eaton Corporation Inc

#### 7.1.5 LUG Light Factory Sp. z o.o.

#### 7.1.6 Terra Universal Inc

#### 7.1.7 Solite Europe Ltd

#### 7.1.8 Paramount Industries

#### 7.1.9 Kenall Manufacturing.

#### 7.1.10 AB Fagerhult

## 8 INVESTMENT ANALYSIS

## 9 MARKET OPPORTUNITIES AND FUTURE TRENDS

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