

# **Global LED Displays, Lighting and Fixtures Market (2011-2016) : Analysis and Forecast by Product, by Applications and by Geography**

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## **Abstracts**

Global LED Displays, Lighting and Fixtures Market (2011-2016) : Analysis and Forecast by Product (Surface Mounted Display, Conventional LED Walls; Hbled, Color LED, Fixed And Portable Fixtures), by Applications (Backlighting, Signage, General Lighting, Automotive Lighting) and by Geography

The global LED market has witnessed rapid growth due to the demand for efficient displays, lighting, and fixtures along with the rising awareness levels about energy conservation. The LED display market is very broad in terms of end user applications and includes notebook PCs, LCD TVs, handsets signals and many more. Major segments in the lighting market are general lighting, automotive lighting, signs and billboard lighting, with general lighting accounting for approximately 75% of the total lighting market. The construction of new green buildings as well as retrofitting the existing buildings in order to make them green is increasing the demand for energy efficient lighting fixtures and, in turn, driving the lighting fixtures market.

A light-emitting diode (LED) is a semiconductor light source. LEDs are used as indicator lamps in many devices and are increasingly used for other lighting. Introduced as a practical electronic component in 1962, early LEDs emitted low-intensity red light, but modern versions are available across the visible, ultraviolet, and infrared wavelengths, with very high brightness.

In general, a flat-surface uncoated LED semiconductor chip will emit light only perpendicular to the semiconductor's surface, and a few degrees to the side, in a cone shape referred to as the light cone, cone of light or the escape cone. The maximum angle of incidence is referred to as the critical angle. When this angle is exceeded,

photons no longer penetrate the semiconductor but are instead reflected both internally inside the semiconductor crystal and externally off the surface of the crystal as if it were a mirror.

Many LED semiconductor chips are potted in clear or colored molded plastic shells. The plastic shell has three purposes:

Mounting the semiconductor chip in devices is easier to accomplish.

The tiny fragile electrical wiring is physically supported and protected from damage.

The plastic acts as a refractive intermediary between the relatively high-index semiconductor and low-index open air

In a market scenario where rapid changes are the order of the day, an in-depth and well analyzed report on low-power consuming LED displays, lighting and fixtures would help stakeholders to understand market size estimates and the changing market trends. A professional analysis will be conducted for the market forecasts along with the market drivers and inhibitors; and stakeholders will also benefit in understanding the various submarkets profiled in detail in the same report. In this report, estimates of the display, lighting and fixtures market and its various submarkets by type, application and major market players have been included. The report also provides a geographic split of each of the submarket and applications.

### **Scope of the Report**

This LED Display, lighting and fixture market research report categorizes the global market on the basis of types and applications. Forecasting revenues and analyzing trends in the LED Display, lighting and fixture market.

On the basis of application market

The current LED market is relatively broad in terms of end-use applications and encompasses display backlighting applications like notebook PCs, LCD TVs, and handsets; lighting applications like general lighting applications, automotive applications and display applications like video walls and signage displays.

## On the basis of Geography

North America, Europe, Asia-Pacific and ROW are covered in the report.

North America is consist of U.S, Canada and Mexico.

Europe is consisting of UK, Germany, France, Italy and all other European market.

Asia-Pacific is consist of China, India, Japan and others.

ROW is segmented into Africa, Middle East and others.

Each section will provide market data, market drivers, trends and opportunities, key players, and competitive outlook. This report will also provide market tables for covering the sub-segments and micro-markets. In addition, the report also provides more than 20 company profiles covering all the sub-segments.

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