

LED LIGHTING

THE PORTAL LED All information from the world of led technology - led bulb strip lamp lantern. Articles about the main parameters of LEDs and LED novelties. Parameters and experimental characteristics of various high power LEDs and led strips for car design and interior. LED LIGHTING The use of LEDs in recent years, more and more inclined towards using them in lighting. If the earlier LEDs were mainly used for display in devices now they are successfully used for example in vehicles which successfully passed the introduction of LEDs in the Parking lights and brake signals. Progress in the technology development of high power LEDs enabled LEDs to get into the lighting area of interest and undoubtedly powerful LEDs will soon displace the obsolete sources of light. The development of led technology which has resulted in the emergence of new efficient high-power LEDs opens new market for led products in lighting. An example of the use of led products could be the lighting of corridors and entrances to buildings lighting technical areas and workplaces at the enterprises lighting of warehouses and storage facilities lighting of shop-Windows and counters in stores. Powerful LEDs for lighting according to such parameters as luminous flux LM luminous efficacy LVT color rendering index and reliability already exceeds traditional light sources used in lighting fixtures. Among their advantages in comparison with lamps directional radiation service life when working in the nominal mode is no less than 50,000 hours. LEDs do not contain mercury, like most fluorescent and hid lamps that greatly simplifies the disposal problem. In addition the maximum value of the luminous flux after switching on light-todiode is nanoseconds and the maximum luminous efficiency is achieved in the range of cold white. The application of powerful LEDs for lighting will reduce all the costs associated with maintenance and power costs but high initial cost of led solutions to outperform almost all of the amount saved. Therefore it is necessary to consider the main factors where significant benefits led light energy Savings when replacing incandescent bulbs with LEDs is up to 80% and fluorescent lamps over 40% of the Radiation of LEDs are directional and do not need to use reflectors which already allows to avoid losses at the reflection occurs in the lamp fixtures. Secondly, the production technology of LEDs is evolving very quickly and is predicted soon and the luminous efficiency of white led is the highest among all

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