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Illumination Kit

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ABSTRACT: In Illumination testing kit the various lamps such as incandescent lamp, LED lamp, Halogen tube used. By using these kit we understand the various types of lamp and there output. We understand the how many energy consumes the various types lamps and how to conserve the energy by using energy saving lamps. The LED lamps are also called as energy saving lamp. Energy is critical to the economic growth and social development of any country Indigenous energy resources need to be developed to the optimum level to minimize dependence on imported fuels, subject to resolving economic, environmental and social constraints. This led to a boost in research and development as well as investment in renewable energy industry in search of ways to meet energy demand and to reduce dependency on fossil fuels.

The research is comprised of possible energy saving, life cycle cost analysis and settlement period of the lighting system in the university building using of the fluorescent lamp which is an analysis of the dataset lighting system. Cost profit analysis of retrofit with extra efficient illumination scheme in terms of probable energy saves, the study of life cycle expenditure and settlement phase was steered

KEYWORDS: Various Types of lamp, holders, wire, switches.

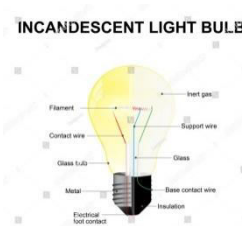
I. INTRODUCTION

Light is the prime factor in the human life as well as activities of human beings Ultimately depend upon the light. Where there is no natural light, use of artificial light is Made. Artificial lighting produced electrically, on account of its cleanness, ease of control, Reliability, steady out put, as well as its low it is playing an increasingly important part in Modern every day life. The science of illumination engineering is, therefore, becoming of Major importance.

Illumination differs from light every much, though generally these terms are used More or less synonymously. Strictly speaking light is the cause and illumination is the result Of that light on surfaces on which it falls. Thus the illumination makes the surface look more Or less bright with certain colour and it is this brightness and colour which the eye sees and Interrupts as something useful or pleasant or other wise.

Light may be produced by passing electric current through filaments as in the Incandescent lamps, through arcs between carbon or metal rods, or through suitable gases as In neon and other gas tubes. In some forms of lamps the light is due to fluorescence excited By radiation arising from the passage electric current through mercury vapour. Some bodies reflect light in some measure, and when illuminated from an original Source they become secondary source of light. The good example is the moon, which Illuminates earth by means of the reflected light originating in the sun.

II. METHODOLOGY





Illumination techniques comprise back lighting, diffuse (also known as full bright field) lighting, bright field (actually partial bright field or directional) lighting, and dark field lighting. The application of some techniques requires a specific light and geometry, or relative placement of the camera, sample, and light—others do not. For example, a standard bright field bar light may also be used in dark-field mode; whereas a diffuse light is used exclusively as such. Most manufacturers of vision lighting products also offer lights with various combinations of techniques available in the same light, and at least in the case of LED-based varieties, each of the techniques may be individually addressable. This circumstance allows for greater flexibility and also reduces potential costs when many different inspections can be accomplished in a single station rather than two. If the application conditions and limitations of each of these lighting techniques, as well as the intricacies of the inspection environment and sample/light interactions are well understood, it is possible to develop an effective lighting solution that meets the three acceptance criteria. The algorithm automatically generates mask image without user interaction that contains only text regions to be inpainted.

III. EXPERIMENTAL RESULTS

Figures shows the final Photographs of the Illumination Project. Illumination Survey or Light Assessment or Lux Level survey is conducted to identify Too much bright light, glare, low light or flickering light to avoid potential hazards and evaluation of risk to improve employee safety.

Sufficient Lighting has major impact on performance and efficiency of the employees at workplace. It helps them to read labels and safety instructions clearly without any hurdles, to make sure prevention of health hazards of employees. Therefore there should be appropriate light fall on desk or work area of the employees. Too much bright light (High intensity), Strong glare, Low light, or continuous flickering light are unsuitable for workplace. To ensure good lighting the persons who is accountable for workplace should contact environmental consultants to conduct Illumination Survey or else you can do it on your own by using a lux meter.



IV. CONCLUSION

However, lighting goes well beyond this most basic requirement. With lighting, you can create an atmosphere and mood. You can shift the audience’s focus on the stage to wherever you direct them. You can hide certain things and reveal them at your choosing. You can mystify the audience with a sense of awe as you create beautiful landscapes with light that glides through the air and across the stage. With lighting, you can control the feel of a service. You also enhance the sound and video ministries by helping to enforce where the communicator is on stage

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