Abstract

The healthcare sector of today has very precise requirement with regard to interior lighting. To fulfill these needs, international standards which specify the strict requirement for each health care facility have come up. Hospital lighting is in particular complex because of the sensitive nature of various patients as well as requirement of high performance from its employees. Hence this makes for a challenging task for designing a lighting scheme for a hospital. Hospital lighting standards have been well documented by IESNA and its Indian counterpart-National Lighting Code 2010. This work aims at providing healthcare lighting of an international standard in a new health care facility namely of a super specialty hospital. Widespread usage of computer simulation as well as International standards like ANSI RP-29-06, have been rigorously followed and implemented. Thus the aim of this work is creating an optimum system where not only the lighting is optimum but the energy consumption of the said facility is also optimized.

References

- L. Edwards and P. Torcellini, "A Literature Review of the Effects of Natural Light
on Building Occupants”, National Renewable Energy Laboratory, 2002

- Thorn Lighting, “Applications in Focus Lighting for Healthcare”, 2013

**Index Terms**

Computer Science

Information Systems

**Keywords**

Health care lighting  Day lighting  Artificial lighting  Hospital lighting  patient care lighting