

第六屆台灣電力電子研討會, 國立彰化師範大學, 2007 年 09 月 07 日

集中型 LED 投射燈系統之設計

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Abstract

This paper is aimed to design a concentrative LED projector system which can provide a homogenous illumination. This system consists of LEDs with the reflector of MR16 provided by a sponsor and a Fresnel lens designed in this paper. The simulation result by a practical ray tracing shows that the produced light pattern by the designed projector can have a concentrative and homogenous illumination distribution in the detecting plane. Also, the sponsor's request is fit. This projector system designed in this paper can be used as a standard module to make up various lighting systems.

Key words : LED;Projector system;Fresnel len