Secondary Light Distribution Lens Applicable to Multi-Core Semiconductor Led Lighting

Abstract

A lens comprising: a lens body; a total reflection surface provided on an outer side of the lens body, the reflection surface being in the form of a scalelike polyhedron; a recess formed on a bottom side of the lens body at a central region thereof for accommodating a LED, the recess having a side surface and a central surface; a micro lens array formed at the central surface of the recess; and a light-emitting surface provided at a top side of the lens body; wherein a substantially uniform circular light spot is formed by the lens.

[Fig. 3]