

The present invention can be used in an advertising stands, information and reference displays, traffic lights, and lighting facilities. The purpose of the invention is to create a lens raster device with light-emitting diodes for forming light radiation directional pattern, which provides the more effective utilization of the light-emitting diodes while simplifying the design of the device. The proposed device contains a light source designed as a switched light-emitting diode array that is arranged on a nonreflecting substrate. Each light-emitting diode contains an optical system with mosaic structure. Each element of the optical system is designed as a lens having a convex surface on one side and a beveled facet on the other side. The optical system of each light-emitting diode contains 7 or 19 said lens elements that provide the formation of parallel light beams. Additionally, the optical system contains a cylindrical Fresnel lens, which is arranged behind the lens elements and provides the specified distribution of light radiation in the horizontal and vertical planes according to the requirements to light-emitting road signs, traffic lights, and lighting facilities.