Abstract

We obtained the emission spectra and radiation patterns of different colored LEDs. The emission spectra were obtained using an optical system allowing obtaining the radiation at different wavelengths. With a light sensor located off the lens system were obtained respective intensity readings. The system was calibrated with the three lines most prominent of the spectrum of mercury lamp corresponding to the values of 404.7, 546.1, 578 nm and also with a He-Ne laser wavelength of 633nm. The radiation patterns were obtained with a single goniometer and a light sensor.

Keywords

Emission spectra, LEDs, Radiation patterns.