

Łukasz John: Photometric and Colorimetric Measurements of Signaling Equipment Used on Railway Lines

This paper presents the research capabilities of the Signalling and Telecommunications Laboratory of the Railway Research Institute in the field of photometric and colorimetric measurements of railway devices used, among other things, for signalling on railway lines. They are used to transmit orders or commands to carry out specific actions referring to train traffic (including movement under train rules of passenger rolling stock, special rolling stock, auxiliary vehicles affecting command control and signalling devices), rolling stock shunting, traffic safety, made in incandescent and LED technology. New measuring stands purchased as part of the RPOWM project (Regional Operational Programme of the Mazovian Voivodeship 2014-2020) are described, i.e. RPMA.01.01.00-14-9845/17-00 "Purchase of modern research and laboratory equipment for the Railway Research Institute", as well as the normative and technical requirements of the Infrastructure Manager are presented.

Keywords: lighting technology, photometry, colorimetry, goniometer