

REQUIREMENTS OF STANDARDS
IN PART RELATED TO MEASUREMENTS
OF THE PHOSPHORESCENT MATERIALS

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ABSTRACT *In this paper we present the way we have realized requirements of standards in part related to measurements of the phosphorescent materials. The kinds of light sources used for excitation, the values of excitation illuminance and times of excitation are discussed. Special attention is paid to excitation with xenon lamp which is admitted to be basic way in classification of the phosphorescent materials. We present the system used for the excitation of lighting and facility for luminance measurements. Basic photometric parameter which characterizes phosphorescent materials i.e. period of light decay, and change in approach to this parameter shown in relevant standards are discussed. The final part of the paper is recapitulation of experience gathered during many years of work and presentation new facility for measuring of low luminance values to be built in the near future in Photometry and Radiometry Lab of Central Office of Measure.*

Keywords: *phosphorescence, luminance, excitation time, decay time*