ADAPTATION OF LIGHTING DESIGN SUPPORT PROGRAM FOR SIMULATION OF RADIATION TRANSMISSION OF HEAT

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ABSTRACT The article presents the proposal to use the program Dialux, for lighting calculations to simulate the radiative heat transfer by infrared heaters. The comparison of simulation results for simple radiation system obtained from the theoretical calculations and simulations is presented. In addition, the practical use of the simulation made using the above program in order to determine the distribution of the irradiance for more complex radiative heating system is shown.

Keywords: radiation, infrared, Dialux, irradiance