



Fig. 7. Main directions of emission of dedicated luminaires.

Lighting requirements for pedestrian crossings – positive contrast

Piotr Tomczuk^{1,*}, Kazimierz Jamroz², Tomasz Mackun² and Marcin Chrzanowicz³

¹Warsaw University of Technology, Faculty of Transport, 75 Koszykowa st., 00-662 Warsaw, Poland

²Gdansk University of Technology, Highway and Transportation Engineering Department, 80-233 Gdansk, 11 Narutowicza str.

³Warsaw University of Technology, Faculty of Electrical Engineering, Plac Politechniki 1, 00-661 Warsaw, Poland