

**Measuring Methods of the Luminance Ratio between Tactile Walking Surface
Indicators and their Surrounding Surfaces at Railway Stations**

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Visual contrast between tactile walking surface indicators (TWSIs) and their surrounding surfaces is an important clue for people with low vision when they walk by themselves. Since luminance contrast is distinguished even by the person with color blindness, some guidelines and standards stipulate the numerical targets of luminance contrast. However, none of the existing guidelines and standards provides enough instructions for the practical measurement of luminance contrast between TWSIs and their surrounding surfaces, which is necessary when applying the numerical targets in real environments. In this paper, we propose the measuring methods of the luminance contrast between TWSIs and their surrounding surfaces, taking the environmental characteristics of railway stations into consideration.