



Transport
Roads & Maritime
Services

Test method T1213

Determination of the luminance of a
surface

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Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	June 001
Ed 2/ Rev 0	All	Reformatted RMS template	J Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T1213 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T1213

Determination of the luminance of a surface

1. Scope

This method sets out the procedure for measuring the luminance of surfaces and surface coatings where colour is an important property.

2. Principle

The luminance factor is the amount of light reflected from the test surface compared to that reflected from a perfect diffusing surface expressed as a percentage.

3. Test Surface

The test surface is prepared, cured and conditioned according to the relevant specification or suppliers' instructions. It must be smooth, clean and dry and free from visible defects such as flaking, cracking or blistering.

4. Apparatus

The apparatus for determining luminance factor shall consist of a light source (CIE source D65 or C) arranged at an angle of 45° to the test surface and a filtered photo-detector (CIE filter type Y) positioned to view the test surface at right angles.

5. Procedure

- (a) Calibrate the apparatus using a certified reference panel having a colour similar to that of the test surface.
- (b) Measure the luminance factor of the test surface at three different parts of the specimen and record the values obtained.
- (c) The luminance factor is the mean of the three readings.

6. Reporting

Report the mean luminance factor expressed as a percentage to the nearest whole number.