

Regulation No. 112

ECE/TRANS/WP.29/GRE/2011/35

Comments from SAE

Comments to GRE/2011/35

The Materials Committee in the SAE Lighting Systems Group has studied ECE/TRANS/WP.29/GRE/2011/35 and notes the following comments.

The test described in GRE/2011/35 is acceptable as an alternate test if it does not interfere with current equipment. The suggestion that a change-over should be made to an irradiance of 0.68 W/cm² would mean that a lot of testing institutes would need new irradiation apparatus.

Instead of proposing a change that involves a switch from one irradiation apparatus to another we propose to add a range to the specification. In our view, therefore, a description with Xenon Wom with a total irradiation of 2550 KJ/cm² and a range for the intensity of the irradiation (0.5 - 0.75) would be preferred, i.e. to define a UV dosage (of the Xe test) applied to the test specimen. The power may be between 0.35 and 0.68 W/cm² @340nm depending on the equipment of the test institute. The total irradiation could then be set by adjusting the test duration. So in case a weaker weathering setup is used, the weathering time is longer.

Changing the power of the test changes the test duration, but we are not aware how this affects the test for better or for worse, therefore if a range is brought forward so that current test equipment can still be used, then it would be an acceptable change.

The SAE Materials Committee is not aware of a known correlation with outdoor testing, but if one is known by the experts from China we would be pleased to review the data with them.