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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

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Item 7 (a) of the provisional agenda
Device UN Regulations:
UN Regulation No. 148 (Light-Signalling Devices)

Proposal for a Supplement to the 01 series of amendments to UN Regulation No. 148

Submitted by the expert from the International Automotive Lighting and Light-Signalling Expert Group *

The text reproduced below was prepared by the expert from the International Automotive Lighting and Light-Signalling Expert Group (GTB) with the aim to provide clarification in case tolerance limits are calculated. The modifications to the existing text of the UN Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect. 20), table 20.6), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Proposal

Annex 3, paragraph 1.1., amend to read:

"1.1. The direction H = 0° and V = 0° corresponds to the reference axis. (On the vehicle, it is horizontal, parallel to the median longitudinal plane of the vehicle and oriented in the required direction of visibility.) It passes through the centre of reference. Unless specified otherwise, the values shown in Figures A3-I to A3-XV give, for the various directions of measurement, the minimum intensities as a percentage of the minimum intensities required, **which shall be mathematically rounded down to three significant digits**.

… "

II. Justification

1. The calculation of the acceptance criteria based on the relative values given in the measurement grid may result in a requirement having more than 3 significant digits. For instance, for a front turn indicator having a minimum requirement of $1.75 \cdot 10^2$ cd at HV (100%), the calculation of the 90% value at 5L-V would result in a minimum requirement $1.575 \cdot 10^2$ cd.

2. By specifying the calculation method, it becomes clear how to calculate acceptance values in the grid, e.g. rounding down for the example above would result in a minimum requirement of $1.57 \cdot 10^2$ cd.