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Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations**Working Party on Lighting and Light-Signalling****Ninetieth session**

Geneva, 29 April – 3 May 2024

Item 6 (a) of the provisional agenda

Installation UN Regulations: UN Regulation No. 48 (Installation of lighting and light-signalling devices)**Proposal for a Supplement to the 09 series of amendments to UN Regulation No. 48****Submitted by the experts from the International Automotive Lighting and Light-Signalling Expert Group ***

The text reproduced below was prepared by the experts from the International Automotive Lighting and Light-Signalling Expert Group (GTB) with the aim to avoid exceeding the aggregate maximum intensity of the main-beam headlamps. The proposed modifications to the current text of the UN Regulations are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), 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

Paragraph 6.1.9.1., amend to read:

“6.1.9.1. The **reference value corresponding to an** aggregate maximum intensity of the main-beam headlamps which can be switched ON simultaneously shall not exceed ~~430,000 cd, which corresponds to a reference value of 100.~~”

II. Justification

1. It is defined in UN Regulations Nos. 48 and 149 that rounding of the reference mark (I'_M) shall be done to the nearest defined value. Due to uneven steps between the possible reference marks, the rounding error can be quite large under certain circumstances and, when the maximum luminous intensities are summed up, it is possible to have a total luminous intensity that exceeds the allowed maximum of 430,000 cd.

2. To avoid reducing the allowed peak intensity that is relevant for the range of the driving-beam, it is proposed to remove the double requirement of a sum of reference marks and a sum of maximum luminous intensities.
