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### Economic Commission for Europe

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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

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Item 4(a) of the provisional agenda

**UN Regulation No. 48 (Installation of lighting and light-signalling devices)**

### **Proposal for Supplement 10 to the 04 series of amendments**

**Submitted by the expert from the Netherlands\***

The text reproduced below was prepared by the expert from the Netherlands in order to further clarify the test conditions regarding the requirements for the sensitivity of the sensor system for ADB (automatic/adaptive driving beam). The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106, ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

## I. Proposal

Paragraph 6.1.9.3.1.2., amend to read:

"6.1.9.3.1.2. The sensor system shall be able to detect on a straight level road:

- (a) an oncoming power driven vehicle (**with its dipped-beam headlamps switched ON**) at a distance extending to at least 400 m;
- (b) a preceding power driven vehicle or a vehicle-trailers combination at a distance extending to at least 100 m;
- (c) an oncoming bicycle at a distance extending to at least 75 m, its illumination represented by a white lamp with a luminous intensity of 150 cd with a light emitting area of 10cm<sup>2</sup> +/- 3cm<sup>2</sup> and a height above a ground of 0.8 mm."

## II. Justification

1. This proposal aims to clarify the original intent of the regulation regarding the automatic/adaptive driving beam (ADB), by further specifying the conditions for the requirements for the sensitivity of the sensor system for ADB.

2. The proposed addition, in parenthesis, to paragraph 6.1.9.3.1.2. clarifies the requirement by mentioning the condition meant. It also reflects the real life situation on the road during night-time driving conditions, when power driven vehicles are required by law to have at least their dipped-beam headlamps switched on (e.g. National traffic circulation laws, Vienna Convention '1968').

3. Editorial correction for indent (b), to read "vehicle-trailer" instead of "vehicle-trailers".

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