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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****Seventy-sixth session**

Geneva, 25–28 October 2016

Item 5 of the provisional agenda

**Regulations Nos. 37 (Filament lamps), 99 (Gas discharge light sources)  
and 128 (Light emitting diodes light sources)****Proposal for Supplement 13 to the original series of  
amendments to Regulation No. 99 (Gas discharge light  
sources)****Submitted by the expert from the International Automotive Lighting  
and Light Signalling Expert Group (GTB)\***

The text reproduced below was prepared by the expert from GTB to clarify provisions in Regulation No. 99 for testing of the run-up of dual level gas-discharge light sources. 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 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, 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.

GE.16-13778(E)



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## I. Proposal

*Paragraph 3.6.2., amend to read:*

"3.6.2. Run-up

3.6.2.1. For gas-discharge light sources having an objective luminous flux which exceeds 2,000 lm:

When measured according to the conditions specified in Annex 4, the gas-discharge light source shall emit at least:

After 1 second: 25 per cent of its objective luminous flux;

After 4 seconds: 80 per cent of its objective luminous flux.

The objective luminous flux as indicated on the relevant data sheet.

3.6.2.2. For gas-discharge light sources having an objective luminous flux which does not exceed 2,000 lm and does not contain black stripes:

When measured according to the conditions specified in Annex 4, the gas-discharge light sources shall emit at least 800 lm after 1 second and at least 1,000 lm after 4 seconds.

The objective luminous flux as indicated on the relevant data sheet.

**3.6.2.3.** For gas-discharge light sources having an objective luminous flux which does not exceed 2,000 lm but does contain black stripes:

When measured according to the conditions specified in Annex 4, the gas-discharge light sources shall emit at least 700 lm after 1 second and at least 900 lm after 4 seconds.

The objective luminous flux as indicated on the relevant data sheet

**3.6.2.4.** **For gas-discharge light sources having more than one objective luminous flux, and at least one objective luminous flux, does not exceed 2,000 lm:**

**When measured according to the conditions specified in Annex 4, the gas-discharge light sources shall emit at least 800 lm after 1 second and at least 1,000 lm after 4 seconds.**

**The objective luminous flux as indicated on the relevant data sheet."**

## II. Justification

1. Regulation No. 99 currently leaves room for interpretation on how to test the run-up of dual-level high-intensity discharge (HID) light sources, as e.g. D9S, during type approval. Thus, it is proposed to add a new paragraph 3.6.2.4. in Regulation No. 99 to clearly specify how the run-up of such dual-level HID light sources should be tested.

2. Along with the addition of the new paragraph the existing part of 3.6.2.2. that applies to gas-discharge light sources containing black stripes was renumbered to 3.6.2.3. to make a distinction with gas-discharge light sources not containing black stripes, thereby adding further structure and clarification.