

**Economic and Social Council**Distr.: General
13 January 2011Original: English
English and French only

Economic Commission for Europe**Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on Lighting and Light-Signalling****Sixty-fifth session**

Geneva, 28–31 March 2011

Item 5(h) of the provisional agenda

**Collective amendments—Regulations Nos. 4, 6, 7,
23, 38, 50, 77, 87, 91 and 119****Proposal for Supplement 1 to the 01 series of amendments to
Regulation No. 119 (Cornering lamps)****Submitted by the expert from the Working Party "Brussels 1952"***

The text reproduced below was prepared by the expert from the Working Party "Brussels 1952" (GTB) to introduce into the Regulation provisions for the use of light-emitting diode (LED) light sources according to the draft Regulation (Regulation No. XXX: ECE/TRANS/WP.29/2010/44 and Corr.1). The modifications to the existing text of the 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 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 1.2., amend to read:

- "1.2. ...
- (b) The characteristics of the optical system (level of intensity, light distribution angles, category of ~~filament lamp~~ **light source**, light source module, etc.);
- A change ... of type."

Paragraphs 1.2.1. to 1.2.4., shall be deleted.

Paragraph 2.2.2., amend to read:

- "2.2.2. A brief ... sources:
- (a) The category ...; and/or
 - (b) **The category or categories of LED light source(s) prescribed; this LED light source category shall be one of those contained in Regulation No. XXX and its series of amendments in force at the time of application for type approval; and/or**
 - (c) The light source module specific identification code."

Paragraph 3.2., amend to read:

- "3.2. With the ...marking indicating:
- (a) The category or categories of ~~filament lamp(s)~~ **light source(s)** prescribed; and/or
 - (b) The light source module specific identification code"

Paragraphs 5.4. to 5.4.3., amend to read:

- "5.4. In the case of replaceable ~~filament lamp(s)~~ **light sources**:
- 5.4.1. Any category or categories of ~~filament lamp(s)~~ **light source(s)** approved according to Regulation No. 37 **and/or Regulation No. XXX** may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval **or in Regulation No. XXX and its series of amendments in force at the time of application for type approval.**
 - 5.4.2. The design of the device shall be such that the ~~filament lamp~~ **light source** can be fixed in no other position but the correct one.
 - 5.4.3. The ~~filament lamp~~ **light source** holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of ~~filament lamp~~ **light source** used, applies."

Paragraph 7.1., amend to read:

- "7.1. **In the case of a lamp with replaceable light source, when not supplied by an electronic light source control gear, with an uncoloured or coloured standard light source of the category prescribed for the device, supplied with the voltage:**

- (a) **In the case of filament lamp(s), that is necessary to produce the reference luminous flux required for that category of filament lamp,**
- (b) **In the case of LED light sources of 6.75 V, 13.5 V or 28.0 V; the luminous flux value produced shall be corrected. The correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied."**

Paragraph 7.3., amend to read:

"7.3. In the case of a system that uses an electronic light source control gear being part of the lamp ³, ~~all measurements, photometric and colorimetric, shall be made~~ applying at the input terminals of the electronic light source control gear a voltage of 6.75 V, 13.5 V or 28.0 V respectively."

Annex 3, paragraph 3.2., amend to read:

"3.2. For replaceable ~~filament lamps~~ **light sources**:

When equipped with ~~filament lamps~~ **light sources** at 6.75 V, 13.5 V or 28.0 V, the luminous intensity values produced shall be corrected. **For filament lamps** the correction factor is the ratio between the reference luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V or 28.0 V).

For LED light sources the correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V or 28.0 V).

The actual luminous fluxes of each ~~filament lamp~~ **light source** used shall not deviate more than ± 5 per cent from the mean value. Alternatively **and in case of filament lamps only**, a standard filament lamp may be used in turn, in each of the individual positions, operated at its reference flux, the individual measurements in each position being added together."

Annex 5,

Paragraph 1.2., amend to read:

"1.2. With respect to... standard ~~filament lamp~~ **light source**, or when ..."

Paragraph 1.2.2., amend to read:

"1.2.2. If, in the case ...standard ~~filament lamp~~ **light source**."

Paragraph 1.3., amend to read:

"1.3. The chromaticity...standard ~~filament lamp~~ **light source**, or for lamps ..."

Annex 6,

Paragraph 1.2., amend to read:

"1.2. With respect ...standard ~~filament lamp~~ **light source**, or when ..."

Paragraph 1.2.2., amend to read:

"1.2.2. If, in the case ... standard ~~filament lamp~~ **light source**."

Paragraph 1.3., amend to read:

"1.3. The chromaticity ...standard ~~filament lamp~~ **light source**, or for lamps equipped ..."

II. Justification

1. At its sixty-second session, GRE adopted ECE/TRANS/WP.29/GRE/2009/55, a draft Regulation for LED light sources (Regulation No. XXX), where it is intended to provide an additional light source option of replaceable, approved LED light sources.
 2. This proposal aims to incorporate LED light sources into Regulation No. 119 as an alternative replaceable light source. Therefore all parts in the text referring to "filament lamps" have been replaced by the more general wording "light source" to allow in future both types of approved light source categories to be used. Where necessary a distinction between both types has been made and references to the appropriate light source Regulations (Regulation No. 37 and Regulation No. XXX) have been added.
 3. This proposal is part of a collective amendment comprising the following Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119.
 4. This proposal also corrects of an error in paragraph 1.2. that has existed in the Regulation from the original version published as ECE/TRANS/WP.29/1034 which was based upon ECE/TRANS/WP.29/2002/62 corrected by ECE/TRANS/WP29/2003/63. Unfortunately the correction introduced by ECE/TRANS/WP.29/2003/63, based upon TRANS/WP.29/GRE/2003/13, did not make it clear that the new wording in paragraph 1.2. was also intended to replace the subparagraphs 1.2.1 to 1.2.4 inclusive.
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