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Item 7(a) of the provisional agenda

DAYTIME RUNNING LAMPS (DRL)

Regulation No. 87
(Daytime running lamps)

Proposal for Supplement 14 to Regulation No. 87

Submitted by the expert from France */

The text reproduced below was prepared by the expert from France in order to re-discuss the minimum and maximum figures of the intensity of the light emitted by each lamp in the axis of reference and to propose a new variable light intensity category of DRL. It is based on a document without a symbol (informal document No. GRE-58-12), distributed during the fifty-eighth session of the Working Party on Lighting and Light-signalling (GRE) (see report ECE/TRANS/WP.29/GRE/58, para. 38). The modifications to the current text of the Regulation are marked in **bold** characters.

*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.

A. PROPOSAL

Paragraph 2.3., amend to read:

"2.3. "Daytime running lamps of different type" means lamps which differ in such essential respects as:

(a) the trade name or mark;

(b) the characteristics of the optical system, (levels of intensity, light distribution angles, category of filament lamp, light source module, **variable intensity control, if any**, etc.);

A change of the colour of the filament lamp or the colour of any filter does not constitute a change of type."

Paragraph 3.1., amend to read:

"3.1. The application for approval shall be submitted by the holder of the trade name or mark or by his duly accredited representative. **It shall specify whether the device produces steady luminous intensity or whether the device produces variable luminous intensity.**

At the choice of"

Paragraph 3.2.2., amend to read:

"3.2.2. a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:

(a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37; and/or

(b) the light source module specific identification code; **and/or**

(c) **for a daytime running lamp of category RL3, a concise description of the variable intensity control.**"

Paragraph 3.2.3., amend to read:

"3.2.3. two samples. **For daytime running lamp of category RL3, the application shall also be accompanied by the variable intensity control or a generator providing the same signal(s).**"

Paragraph 4.3., amend to read:

"4.3. in the case of lamps with an electronic light source control gear **or a variable intensity control** and/or non-replaceable light sources and/or light source module(s), bear the marking of the rated voltage or range of voltage and rated maximum wattage."

Paragraph 4.7., amend to read:

"4.7. An electronic light source control gear **or a variable intensity control** being part of the lamp but not included into the lamp body shall bear the name of the manufacturer and its identification number."

Paragraph 5.2.2., amend to read:

"5.2.2. the additional symbol "RL" **followed by the figure "1" when the device produces low steady luminous intensity, by the figure "2" when the device produces high steady luminous intensity, and by the figure "3" when the device produces variable luminous intensity.**"

Paragraph 6.4., amend to read:

"6.4. Daytime running lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an electronic light source control gear **or a variable intensity control** to regulate the intensity of the light emitted, are permitted."

Insert a new paragraph 6.5., to read:

"6.5. **In case of failure of the variable intensity control regulating the variable luminous intensity of a daytime running lamp of category RL3 emitting more than the maximum value of category RL2, requirements of steady luminous intensity of category RL2 shall be fulfilled automatically.**"

Paragraph 7.1., amend to read:

"7.1. The luminous intensity of the light emitted by each lamp shall not be less than [400] cd in the axis of reference **for a device with low or high steady luminous intensity (RL1 and RL2), and than [200] cd for a device with variable luminous intensity (RL3).**"

Paragraph 7.2.2., amend to read:

"7.2.2. **in any direction the lamp is visible not exceed [600] cd for a device with low steady luminous intensity (RL1), not exceed [1,200] cd for a device with high steady luminous intensity (RL2), and not exceed [3,200] cd for a device with variable luminous intensity (RL3).**"

Insert new paragraphs 7.4. to 7.4.2., including the reference to footnote 3/ and footnote 3/ to read:

"7.4. **The variable intensity control shall not generate signals which cause luminous intensities:**

7.4.1. outside the range specified in paragraphs 7.1. to 7.3. above; and

7.4.2. outside the range specified under standard conditions. 3/

3/ See paragraph 3. of the conclusions of the study transmitted by the expert from Japan (Informal document No. GRE-53-8 distributed during the fifty-third session of the Working Party on Lighting and Light-signalling (GRE)) "

Paragraph 7.4. (former), renumber as paragraph 7.5.

Paragraph 9., amend to read:

"9. COLOUR OF LIGHT

... within the limits of the trichromatic co-ordinates prescribed in Annex 4 to this Regulation.

These requirements shall also apply within the range of variable luminous intensity produced by a daytime running lamp of category RL3."

Paragraph 10.1., amend to read:

"10.1. All measurements, photometric and colorimetric, shall be made with a colourless standard filament lamp of the category prescribed for the device, the supply voltage being so regulated as to produce the reference luminous flux required for that category of lamp, when not supplied by an electronic light source control gear **or a variable intensity control.**"

Paragraph 10.2., amend to read (including the renumbering of the reference to footnote 3/ and footnote 3/, as footnote 4/):

"10.2. In the case of a system that uses an electronic light source control gear **or a variable intensity control** being part of the lamp 4/, all measurements, photometric and colorimetric, shall be made applying at the input terminals of the lamp a voltage of 6.75 V, 13.5 V or 28.0 V respectively."

Paragraph 10.3., amend to read:

"10.3. In the case of a system that uses an electronic light source control gear **or a variable intensity control** not being part of the lamp the voltage declared by the manufacturer shall be applied to the input terminals of the lamp. The test laboratory shall require from the manufacturer the light source control gear **or a variable intensity control** needed to supply the light source and the applicable functions.

The voltage to be applied to the lamp shall be noted in the communication form in Annex 1 of this Regulation."

Annex 1, item 9., amend to read:

- "9. ...
Application of an electronic light source control gear / **variable intensity control**:
(a) being part of the lamp: yes/no 2/
(b) being not part of the lamp: yes/no 2/

Input voltage supplied by an electronic light source control gear / **variable intensity control**:
- Electronic light source control gear / **variable intensity control** manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body):.....
- Variable luminous intensity: yes/no 2/"**

Annex 2

Figure 1, amend the marking "RL" to read "**RL1**", and amend the text to read:

"The daytime running lamp of **category RL1** bearing the approval mark..."

Figure 2, amend the marking "RL" to read "**RL2**", and amend the note to read:

"...A daytime running lamp of category RL2 approved in accordance with Regulation No. 87 in its original form; ..."

Figure 3, amend the marking "RL" to read "**RL3**", and amend the text to read :

"...a daytime running lamp of **category RL3** approved in accordance with Regulation No. 87 in its original form; ...

...

the same daytime running lamp of **category RL3** as above;..."

Annex 5

Paragraph 1.2., amend to read:

"1.2. With respect to photometric performances, the conformity of mass-produced lamps shall not be contested if, when testing photometric performances of any lamp chosen at random **according to paragraph 10. of this Regulation, respectively**: "

Paragraph 1.3., amend to read:

"1.3. The chromaticity coordinates shall be complied **when tested under conditions of paragraph 10 of this Regulation.**"

Annex 6

Paragraph 1.2., amend to read:

"1.2. With respect to photometric performances, the conformity of mass-produced lamps shall not be contested if, when testing photometric performances of any lamp chosen at random **according to paragraph 10. of this Regulation, respectively:** "

Paragraph 1.3., amend to read:

"1.3. The chromaticity coordinates shall be complied with **when tested under conditions of paragraph 10. of this Regulation.**"

B. JUSTIFICATION

This proposal is motivated by:

1. the apparent need by some Contracting Parties or some non governmental associations to re-discuss the minimum and maximum figures of the intensity of the light emitted by each lamp in the axis of reference, despite the general agreement reached during the fifty-sixth GRE session in favour of the new range 400-1200 cd without additional provisions :
 - (a) glaring concern produced by dedicated daytime running lamp at night-time conditions, which could justify a mandatory installation of a light-sensor or a revision of these figures (see ECE/TRANS/WP.29/2007/20/Rev.1, informal document No. GRE-58-02, Informal document No. GRE-58-08).
 - (b) conspicuity concern between dedicated daytime running lamp and direction indicator lamp, which could justify stringent provisions regarding distances or a revision of these figures (see ECE/TRANS/WP.29/GRE/2007/21).
 - (c) "loss of motorcycle conspicuity in some circumstances", which could justify also a revision of these figures (see ECE/TRANS/WP.29/GRE/2007/38).
2. The opportunity to propose a new variable light intensity category of daytime running lamps, referring to recent amendments adopted to Regulation No. 6 (Supplement 15 to the 01 series of amendments), Regulation No. 7 (Supplement 12 to the 02 series of amendments) and Regulation No. 38 (Supplement 12 to the original version of the Regulation), as a gesture towards Japan to propose what could be acceptable as daytime running lamps, and which eventually could help Japan to adopt Regulation No. 87.
