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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**

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Item 6 (a) of the provisional agenda

Regulation No. 48 (Installation of lighting and light-signalling devices) –**Proposals for amendments to the 05 and 06 series of amendments****Proposal for Supplement 11 to the 05 series of amendments
and Supplement 9 to the 06 series of amendments to
Regulation No. 48 (Installation of lighting and light-signalling
devices)****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 inconsistencies or unclear texts or to correct the terminology in Regulation No. 48. 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 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.



I. Proposal

Paragraph 5.7.2.1., amend to read:

“5.7.2.1. Single lamps as defined in paragraph 2.16.1., subparagraph (a), **the apparent surface of which is** composed of two or more distinct parts, shall be installed in such a way that:

(a) either the total area of the projection of the distinct parts **of the apparent surface in the direction of the reference axis** on a plane tangent to the exterior surface of the outer lens and perpendicular to the reference axis shall occupy not less than 60 per cent of the smallest quadrilateral circumscribing the projection **of the said apparent surface in the direction of the reference axis**; or

(b) the minimum distance between the facing edges of two adjacent/tangential distinct parts **of the apparent surface in the direction of the reference axis** shall not exceed 75 mm when measured perpendicularly to the reference axis.

These requirements shall not apply to a single retro-reflector.”

Paragraph 6.2.9., amend to read:

“6.2.9. Other requirements

6.2.9.1. The requirements of paragraph 5.5.2. shall not apply to dipped-beam headlamps.

6.2.9.2. Dipped-beam headlamps with a light source or LED module(s) producing the principal dipped-beam ~~and~~ having a total objective luminous flux **for each headlamp** which exceeds 2,000 lumen shall only be installed in conjunction with the installation of headlamp cleaning device(s) according to Regulation No. 45 .

6.2.9.3. With respect to vertical inclination the provisions of paragraph 6.2.6.2.2. above shall not be applied for dipped-beam headlamps with a light source or LED module(s) producing the principal dipped-beam and having an objective luminous flux **for each headlamp** which exceeds 2,000 lumens.

In the case of filament lamps for which more than one test voltage is specified, the objective luminous flux which produces the principal dipped-beam, as indicated in the communication form for the type approval of the device, is applied.

In the case of dipped-beam headlamps equipped with an approved light source, the applicable objective luminous flux is the value at the relevant test voltage as given in the relevant data sheet in the Regulation, according to which the applied light source was approved, without taking into account the tolerances to the objective luminous flux specified on this datasheet.

6.2.9.4. Only dipped-beam headlamps according to Regulation Nos. 98 or 112 may be used to produce bend lighting.

If bend lighting is produced by a horizontal movement of the whole beam or the kink of the elbow of the cut-off, it shall be activated only if

the vehicle is in forward motion; this shall not apply if bend lighting is produced for a right turn in right hand traffic (left turn in left hand traffic).”

Paragraph 6.3.6.1.2.1., amend to read:

“6.3.6.1.2.1. When the total objective luminous flux of the light source **for each front fog lamp** does not exceed 2,000 lumens:”

Paragraph 6.3.6.1.2.2., amend to read:

“6.3.6.1.2.2. When the total objective luminous flux of the light source **for each front fog lamp** exceeds 2,000 lumens:”

II. Justification

1. The aim of this proposal is to clarify inconsistencies or unclear texts or to correct the terminology in Regulation No. 48. In principle, it is proposed to introduce these clarifications into all the series of amendments presently applicable to new type approvals (05 and 06 series), with a view to avoiding any different application of the paragraphs depending on the series of amendments used.

Paragraph 5.7.2.1.

2. An editorial correction to align the terminology with the present definition and other requirements.

Paragraph 6.2.9.

3. Changes are proposed to make the interpretation of this paragraph indisputable as far as the application of the 2,000 lumen limit is concerned. In addition, an editorial revision of the paragraph is proposed, to separate the existing text into four sub-paragraphs, for better understanding.

Paragraphs 6.3.6.1.2.1. and 6.3.6.1.2.2.

4. As for paragraph 6.2.9. above, changes are proposed to make the interpretation of these paragraphs indisputable as far as the 2,000 lumen limit application is concerned.
