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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**

**Eighty-third session**

Geneva, 21–24 April 2020

Item 4 (c) of the provisional agenda

**Simplification of lighting and light-signalling UN Regulations:**

**UN Regulation No. 149 (Road illumination devices)**

Proposal to correct the text of UN Regulation No. 149

Submitted by the Informal Working Group on Simplification of Lighting and Light-Signalling Regulations[[1]](#footnote-2)\*

The text reproduced below was prepared by Informal Working Group on Simplification of Lighting and Light-Signalling Regulations (IWG SLR) with the aim to correct errors inadvertently introduced in the text of the new UN Regulation No. 149. The modifications to the existing text of UN Regulation No. 149 are marked in bold for new or strikethrough for deleted characters.

I. Proposal

*Table 8, part A*, amend to read:

# “Table 8

# **Luminous intensities of passing-beam (all intensities expressed in cd)**

| *Headlamps for RH traffic\*\*\*, Passing beam of* | | | | | | *Class A* | | *Class B* | | *Class D* | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | *See beam pattern in Annex 4* | | | | *Figure A4-V* | | *Figure A4-V* | | *Figure A4-VI* | |
|  |  |  | *Position in degrees* | | |  | |  | |  | |
|  |  |  | *horizontal* | | *vertical* |  | |  | |  | |
| *Part A* | *No.* | *Element* | *at/from* | *to* | *at* | *min* | *max* | *min* | *max* | *min* | *max* |
| 1 | B50L | 3.43 L |  | 0.57 U |  | 350 |  | 350 |  | 350 |
| 2 | BR | 2.50 R |  | 1.00 U |  | 1,750 |  | 1,750 |  |  |
| 3 | Zone III (see Part C) |  |  |  |  | 625 |  | 625 |  | 625 |
| 4 | 50R | 1.72 R |  | 0.86 D | 5,100 |  | 10,100 |  | 12,500 |  |
| 5 | 75R | 1.15 R |  | 0.57 D | 5,100 |  | 10,100 |  | 12,500 |  |
| 6 | 50V | V |  | 0.86 D |  |  | 5,100 |  | 7,500 |  |
| 7 | 50L | 3.43 L |  | 0.86 D |  | 13,200\* |  | 13,200\* |  | 18,480 |
| 8 | 75L | 3.43 L |  | 0.57 D |  | 10,600 |  | 10,600 |  |  |
| 9 | 25L1 | 3.43L |  | 1.72 D |  |  |  |  |  | 18,800 |
| 10 | 25L2 | 9.00 L |  | 1.72 D | 1,250 |  | 1,700 |  | 2,500 |  |
| 11 | 25R1 | 9.00 R |  | 1.72 D | 1,250 |  | 1,700 |  | 2,500 |  |
| 12 | 25L3 | 15.00 L |  | 1.72 D |  |  |  |  | 1,250 |  |
| 13 | 25R2 | 15.00 R |  | 1.72 D |  |  |  |  | 1,250 |  |
| 14 | 15L | 20.00 L |  | 2.86 D |  |  |  |  | 625 |  |
| 15 | 15R | 20.00 R |  | 2.86 D |  |  |  |  | 625 |  |
|  | Segment I A to B | 5.15 L | 5.15 R | 0.86 D |  |  |  |  | 3,750 |  |
|  | **~~Segment I C to D~~ C-D** | 2.50 R |  | 1.00 U |  |  |  |  |  | 1,750 |
|  | Segment III and under | 9.37 L | 8.50 R | 4.29 D |  |  |  |  |  | 12,500 |
|  | Zone IV | 5.15 L to 5.15 R –  0.86D to 1.72D | | | 1,700 |  | 2,500 |  |  |  |
|  | Zone I | 9.00 L to 9.00 R –  1.72 D to 4.00 D | | |  | 17,600 |  | < 2I\*\* |  |  |
|  | **~~E~~Imax** R | Vertical above 1.72D,  right of V-V line | | |  |  |  |  |  | 43,800 |
|  | **~~E~~Imax** L | Left of V-V line | | |  |  |  |  |  | 31,300 |

*…”*

*Table 9, part B*, amend to read:

# “Table 9

**Passing-beam photometric requirements in conjunction with Figure A4-VII**

…

Part B (bending mode): Table 9 applies, however with the lines Nos. 1, 7, 13 and 18 being replaced by those listed hereunder

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Part B* | 1 | B50L | L 3.43 | - | U 0.57 | 504 | 530 | **~~50~~** | **~~350~~** **530** | **~~50~~** | **~~625~~** | **~~50~~** | **~~625~~ 790** |
| 7 | Zone III | As specified in Table 11 | | | - | 880 | - | 880 | - | 880 | - | 880 |
| 13 | 50 L | L 3.43 | - | D 0.86 | 1,700 | - | 1,700 | - | 3,400 | - | 3,400 | - |
| 18 | Imax | - | - | - | 10,100 | 44,100 | 5,100 | 44,100 | 10,100 | 79,3007 | 20,300 | 70,5002 |

…”

*Annex 7, paragraph 1. (a)*, amend to read:

“(a) In the case of a headlamp with an asymmetrical passing-beam pattern:

at the point for Imax for driving-beam and in points 25L**2**, 50 R, B 50 L for passing-beam (or 25R**2**, 50 L, B 50 R for headlamps designed for left-hand traffic);”

*Annex 7, paragraph 1. (d)*, amend to read:

“(d) In the case of an AFS:

at the point for Imax for driving-beam and in points 25L**L**, 50V, B 50 L (or ~~R~~ **25RR, 50V, B 50 R for AFS designed for left-hand traffic**)~~, whichever applies~~ for passing-beam;”

*Annex 7, paragraph 2.1.2.2.1. (a)*, amend to read:

“(a) Passing-beam, except for AFS system:

- 50 R - B 50 L – 25L**2** for headlamps designed for right-hand traffic;

- 50 L - B 50 R – 25R**2** for headlamps designed for left-hand traffic.”

II. Justification

1. The proposals to rename the element “Segment I C to D” in Table 8, to amend the luminous intensity requirements in Table 9, Part B and to correct Annex 7, paragraph 2.1.2.2.1. (a), are alignments with UN Regulations Nos. 98, 112 and 123.

2. The proposal to rename “Emax R/L” in Table 8 as well as to change Annex 7, paragraph 1. d) is a correction of mistakes already contained in the frozen UN Regulations Nos. 98 and 123 that had been copied into the current UN Regulation No. 149. For this reason, a parallel proposal to correct UN Regulations Nos. 98 and 123 has been prepared by IWG SLR (see ECE/TRANS/WP.29/GRE/2020/11).

1. \* In accordance with the programme of work of the Inland Transport Committee for 2020 as outlined in proposed programme budget for 2020 (A/74/6 (part V sect. 20) para 20.37), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate. [↑](#footnote-ref-2)