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Item 4.9.8 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRE

Proposal for Supplement 2 to the 01 series of amendments to UN Regulation No. 148 (Light-signalling devices)

Submitted by the Working Party on Lighting and Light-Signalling*

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its eighty-ninth session (ECE/TRANS/WP.29/GRE/89, paras. 9 and 16). It is based on ECE/TRANS/WP.29/GRE/2023/14 and ECE/TRANS/WP.29/GRE/2023/20. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their March 2024 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), 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.



Paragraph 3.3.1.2., renumber to 3.3.1.1.1.

Paragraph 3.3.1.3., renumber to 3.3.1.2.

Paragraph 3.3.4.4., amend to read:

"3.3.4.4. Lamps shall bear marking of the rated voltage(s) (i.e. 6V, 12V or 24V) or the range of voltage, in the case of lamps with:

- (a) An electronic light source control gear; and/or
- (b) A variable luminous intensity control; and/or
- (c) A secondary operating mode; and/or
- (d) Non-replaceable light sources."

Table 8, amend to read:

"Table 8

Luminous intensities for direction indicator lamps

Direction indicator of categories	Minimum luminous intensity in cd (Par. 4.8.3.1. (a))	Maximum luminous intensity in cd when used as (Par. 4.8.3.1. (b))		Standard light distribution (Par. 4.8.3.1. (c))	Angles of geometric visibility (Par. 4.8.3.1. (d))	
		A single lamp	A lamp marked "D" (Par. 3.3.2.5.2.)		Definition	Minimum luminous intensity in cd
1	$1.75 \cdot 10^2$	$1.20 \cdot 10^3$	$6.00 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$
1a	$2.50 \cdot 10^2$	$1.20 \cdot 10^3$	$6.00 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$
1b	$4.00 \cdot 10^2$	$1.20 \cdot 10^3$	$6.00 \cdot 10^2$	Figure A3-I	Table A2-1	$7 \cdot 10^{-1}$
2a (steady)	$5.0 \cdot 10^1$	$5.00 \cdot 10^2$	$2.50 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$
2b (variable)	$5.0 \cdot 10^1$	$1.00 \cdot 10^3$	$5.00 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$ (day) $7 \cdot 10^{-2}$ (night)
5	$6 \cdot 10^{-1}$	$2.80 \cdot 10^2$	$1.40 \cdot 10^2$	Table A2-2	Table A2-2	$6 \cdot 10^{-1}$
6	$5.0 \cdot 10^1$	$2.80 \cdot 10^2$	$1.40 \cdot 10^2$	Figure A3-IV	N.A.	N.A.
11	$9.0 \cdot 10^1$	$1.20 \cdot 10^3$	$6.00 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$
11a	$1.75 \cdot 10^2$	$1.20 \cdot 10^3$	$6.00 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$
11b	$2.50 \cdot 10^2$	$1.20 \cdot 10^3$	$6.00 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$
11c	$4.00 \cdot 10^2$	$1.20 \cdot 10^3$	$6.00 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$
12	$5.0 \cdot 10^1$	$5.00 \cdot 10^2$	$2.50 \cdot 10^2$	Figure A3-I	Table A2-1	$3 \cdot 10^{-1}$

Paragraph 5.7.7., amend to read:

"5.7.7. Colour:

The colour of the light emitted shall be amber. However, it can be red, if the rearmost side marker lamp is grouped or combined or reciprocally incorporated with the rear position lamp, the rear end-outline marker lamp, the rear fog lamp, the stop lamp, or is grouped with or has part of the light emitting surface in common with the rear retro-reflector."

Annex 8, paragraph 1.2.2., amend to read:

"1.2.2. For all other lamps, the luminous intensities measured after 1 min and either

- after 30 minutes of operation, or
- after photometric stability has occurred

shall comply with the minimum and maximum requirements.

Operation of direction indicator lamps shall be done in flashing mode ($f = 1.5$ Hz, duty factor 50 per cent).

The luminous intensity distribution after 1 min of operation may be calculated from the luminous intensity distribution either after 30 min of operation or after photometric stabilization, by applying at each test point the ratio of luminous

intensities measured at HV after 1 min and either after 30 min of operation or after photometric stabilization."
