



Economic and Social Council

Distr.: General
10 August 2018

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Eightieth session

Geneva, 23-26 October 2018

Item 4 of the provisional agenda

Simplification of lighting and light-signalling UN Regulations

Proposal to improve and clarify the text of the UN Regulation on Road-Illumination Devices (RID)

Submitted by the Informal Working Group on Simplification of Lighting and Light-Signalling Regulations (IWG SLR)*

The text reproduced below was prepared by IWG SLR with the aim to improve and clarify the text of the new RID UN Regulation. The modifications are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/274, para. 123 and ECE/TRANS/2018/21/Add.1, cluster 3.1), 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

GE.18-13207(E)



* 1 8 1 3 2 0 7 *

Please recycle



I. Proposal

Paragraph 2.1., amend to read:

"2.1. All the definitions given in the latest series of amendments to UN Regulation No. 48 in force at the time of application for type approval shall apply, unless otherwise specified **in this UN Regulation or in the pertinent installation UN Regulations Nos. 53, 74 and 86.**"

Annex 2, paragraphs 1.2.2.3., 1.2.3. and 1.2.4., amend to read:

~~1.2.2.3.~~**1.2.3.** If the results of the test described above do not meet the requirements, the alignment of the headlamp may be changed, provided that the axis of the beam is not displaced laterally by more than 0.5 degree to the right or left and not by more than 0.2 degree up ~~and~~ **or** down.

~~1.2.3.~~**1.2.4.** For AFS corresponding to paragraph 5.3. of this UN Regulation, if the results of the test described above do not meet the requirements, the alignment of the system may be changed in each class, provided that the axis of the beam is not displaced laterally by more than 0.5 degree to the right or left and not by more than 0.2 degree up ~~and~~ **or** down, each independently and with respect to the first aiming.

These provisions do not apply to lighting units as indicated under paragraph 5.3.3.1.1. of this UN Regulation.

~~1.2.4.~~**1.2.5.** If in the case of a lamp equipped with a replaceable light source the results of the tests described above do not meet the requirements, tests shall be repeated using another standard (étalon) light source."

Table 9, Part A, column "Passing beam/Class C", amend to read:

"

Tabled requirements expressed in cd			Position / deg.			Passing beam							
			horizontal		vertical	Class C		Class V		Class E		Class W	
No.	Element	At/from	to	at	min	max	min	max	min	max	min	max	
Part A	1	B50L	L 3.43	-	U 0.57	50⁴	350	50	350	50	625 ⁷	50	625
	3	BR	R 2.50	-	U 1.00	50⁴	1 750	50	880	50	1 750	50	2 650
	4	Segment BRR	R 8.00	R 20	U 0.57	50⁴	3 550	-	880	-	3 550	-	5 300
	5	Segment BLL	L 8.00	L 20	U 0.57	50⁴	625	-	880	-	880	-	880
	6	P	L 7.00	-	H	63	-	-	-	-	-	63	-
	7	Zone III	As specified in Table 11			-	625	-	625	-	880	-	880
	8a	S50+S50LL+S50RR ⁵	-	-	U 4.00	190⁶	-	-	-	190 ⁶	-	190 ⁶	-
	9a	S100+S100LL+S100RR ⁵	-	-	U 2.00	375⁶	-	-	-	375 ⁶	-	375 ⁶	-
	10	50 R	R 1.72	-	D 0.86	-	-	5 100	-	-	-	-	-
	11	75 R	R 1.15	-	D 0.57	10 100	-	-	-	15 200	-	20 300	-
	12	50 V	V	-	D 0.86	5 100	-	5 100	-	10 100	-	10 100	-
	13	50 L	L 3.43	-	D 0.86	3 550	13 200⁸	3 550	13 200 ⁸	6 800	-	6 800	26 400 ⁸
	14	25 LL	L 16.00	-	D 1.72	1 180	-	845	-	1 180	-	3 400	-
	15	25 RR	R 11.00	-	D 1.72	1 180	-	845	-	1 180	-	3 400	-
	16	Segment 20 and below	L 3.50	V	D 2.00	-	-	-	-	-	-	-	17 600 ²
	17	Segment 10 and below	L 4.50	R 2.00	D 4.00	-	12 300⁴	-	12 300 ¹	-	12 300 ¹	-	7 100 ²
	18	I _{max} ³	-	-	-	16 900	44 100	8 400	44 100	16 900	79 300 ⁷	29 530	70 500 ²

"

II. Justification

Paragraph 2.1.

1. Although the wording "unless otherwise specified" is already part of the text, IWG SLR concluded that, for the sake of clarity, it would be appropriate to specify the UN Regulations related to other categories of vehicles in the definition paragraph.

Annex 2, paragraphs 1.2.2.3., 1.2.3. and 1.2.4.

2. SLR recommends to harmonize the Conformity of Production (CoP) provisions regarding the permitted re-aim angles for classes A and B headlamps (contained in UN Regulation No. 112, see the table below) with the provisions for all other classes and for the adaptive front-lighting systems (AFS).

Table

Provisions for CoP measurements (example for right-hand traffic)

<i>UN Regulation No.</i>	<i>98</i>	<i>112</i>	<i>113</i>	<i>123</i>	<i>Proposal for RID: for all classes of headlamps and for AFS</i>
vertically	not more than 0,2° up or down	-	not more than 0,2° up or down	not more than 0,2° up and down	not more than 0,2° up or down
horizontally	not more than 0,5° to the left or to the right	not more than 1,0° to the left or to the right	not more than 0,5° to the left or to the right	not more than 0,5° to the left or to the right	not more than 0,5° to the left or to the right
see paragraph	Annex 8, 1.2.3.	Annex 5, 1.2.3.	Annex 5, 1.2.5.	Annex 5, 1.2.2.	Annex 2, 1.2.3. and 1.2.4.

Table 9

3. The values indicated in the column for Class C passing beam have been taken from UN Regulation No. 123. During the review of the table, IWG SLR has also checked all footnotes.

General

4. If adopted by the Working Party on Lighting and Light-Signalling (GRE) at its eightieth session in October 2018, this proposal may be sent, as an informal document, to the November 2018 session of the World Forum for Harmonization of Vehicle Regulations (WP.29) for consideration together with the formal RID proposal. In this way, WP.29 will have the possibility to adopt a better text "ab initio" in November 2018.