

Informal document **GRE-85-03**

85th GRE, 26-29 October 2021

Agenda item 4 (b)

This presentation supports the draft proposal for the
new 01 series of amendments to UN Regulation No. 148
(GRE/2021/13)

A summary of the documents/SLR sessions taken into account as basis for requirement/provision changes is listed below:

SLR-33-02	Alignment max intensities direction indicator
SLR-35-01	Different corrections to series 00 and 01, failure provisions and missing text
SLR-37-05-Rev.1	Clarification of failure provisions
SLR-37-06	Added D-lamp option for DRL
SLR-40	Simplify the marking requirements
SLR-44-07	Added optional tests with regard to red light to the front & white light to the rear
SLR-43-09	Clarification failure provisions, failure for CoP values, clarification 700 cd DRL
SLR-45-05	Transitional provisions
SLR-46-15-Rev.1	Par. 3.1.2.1. and 3.1.2.2., description and drawing
SLR-45-13-Rev.1	Improvement of the marking provisions
SLR-46-11-Rev.1	Light source issue / testing conditions
SLR-48	Change index

Requirement/provision changes		
Par.	Content	Document / Session
3.1.2.1 / 3.1.2.2.	Amended requirements for description and drawings	SLR-46-15-Rev.1
3.2.5., Table 2	Change index for series 01	SLR-48
3.3.	Clarification of the requirements for approval marking / Unique Identifier	SLR-46-13 Rev.1
4.4.	Added D-lamp option for all functions on all vehicles where restrictions exist	SLR-37
4.4.1., 5.4.1., 5.4.3.	Option of D-lamps added for daytime running lamps	SLR-37-06
4.6.1.4.	Correction to the failure provisions of direction indicators for vehicles of category L	SLR-35-01 SLR-37-05-Rev.1
Par. 4.7., 4.8., Annex 8	Inclusion of all light source technologies (including future ones) and combinations of them Aligned and improved the testing conditions acc. to the light source options	SLR-46-11-Rev.1
4.8.3.1.1.	Added additional test for red light to the front / white light to the rear	SLR-44-07
5.6.1., Table 8	The maximum luminous intensity for all different front direction indicators is aligned to a general maximum value.	SLR-33-02
Par. 7	Transitional provisions for Series 01	SLR-45-05
Annex 3, Par. 1.2.	Added a missing paragraph that was omitted in the first version	SLR-35-01
Annex 7, drawing	Amended marking requirement (requirement for horizontal part of the downward facing arrow)	SLR-40

The document colours refer to an older version of the draft version of the R148.01 series, see GRE-84-14 for details

Clarification / improvements		
Par.	Content	Document / Session
All values	Introduction of scientific notation in order to assure that not more than 3 significant digits are shown for the required luminous intensity and luminous flux values	SLR-43-05-Rev.1 SLR-48-08
Introduction	Updated the introductory text to reflect the new series of amendments	SLR-40-12-Rev.1
Diff. Paras.	Renumbered for clearer order	SLR-38-03 Rev.1, SLR-38-04 Rev.1
Diff. Paras.	Clarification of the phrases “rated voltage” / “range of voltage” / “input voltage” and “wattage”	<i>SLR-48</i>
3.x	Rearranged and restructured provisions for type approval	<i>SLR-48 / SLR-49</i>
3.1.2.1., 3.1.2.2.	Clarified a provision for devices mounted behind the rear window	SLR-35-01
3.2.4., Table 1	The rows of the table were reduced by merging the different categories of a function	
3.3.4.5.	Rewritten to consider the correct light source module marking requirements	SLR-32-01-Rev.1
3.3.	Restructured and aligned as much as possible with Regulations 149 and 150	
3.5.	The general provisions for conformity of production are kept in this paragraph	SLR-32-21
4.6.	All failure provisions were merged under Par. 4.6. to avoid paragraph jumping	SLR-32-02/Rev.1
4.6.1.2.	Small text correction to reflect the changes in Annex 2	<i>SLR-37</i>
4.6.1.3.- 4.6.1.6.	An additional sentence was added to ensure the valid provisions for each function are clear.	SLR-37-05-Rev.1

Clarification / improvements		
Par.	Content	Document / Session
4.8.3.	Headline added Newly structured and clarified general text for photometric requirements.	SLR-38-03 Rev.1, SLR-38-04 Rev.1 <i>SLR-37</i>
4.8.3.1.	Merged all existing provisions regarding luminous intensities in one paragraph	SLR-38-03 Rev.1, SLR-38-04 Rev.1
4.8.7., 4.8.8. & 4.8.10.	Transferred to 4.8.2.4. to 4.8.2.6.	SLR-38-03 Rev.1, SLR-38-04 Rev.1
5.x.	All specific technical requirements are rearranged in Par. 5 according to a fixed framework. Every subparagraph (5.x.x) now has a title followed by the requirements for that specific function. The framework for each subparagraph (function) states: 5.x.1. Luminous intensity and standard light distribution 5.x.2. Minimum luminous intensity within the angles of geometric visibility 5.x.3. Minimum or maximum area of apparent surface 5.x.4. Measurement 5.x.5. Additional specific requirements 5.x.6. Failure provisions (only link to Par. 4.6.) 5.x.7. Colour	SLR-32-02/Rev.1

Clarification / improvements		
Par.	Content	Document / Session
5.x	Tables aligned with the new structure in 4.8.3.	SLR-38-03 Rev.1, SLR-38-04 Rev.1
5.x.1., 5.x.2.	Merged the two subparagraphs and clarified the text according to the general provisions in Par. 4.8.3. Done for all functions under paragraphs 5.1., 5.2., 5.3., 5.4., 5.5., 5.6., 5.7. and 5.8.	<i>SLR-37</i>
5.1.4., 5.2.4., 5.3.4., 5.5.4.	Partially moved requirements from Annex 2 to the subparagraphs of the relevant functions	<i>SLR-37</i>
5.7.4.	Moved requirement from Annex 3 to main text.	<i>SLR-37</i>
New Par. 6	Provisions for conformity of production from Par. 3.5. and Annexes 4 and 5 are collected here.	SLR-32-21
6.1.	Correct paragraph links for conformity of production requirements	
Annex 1, item 9.1.6.	Added an item to the communication form to follow the provisions of par. 4.5.4. (a)	SLR-35-01
Annex 2, 2.7.1., 2.7.2.	Removed requirements as already contained in the main body text	<i>SLR-37</i>
Annex 2	Changed „light distribution in space“ to „Angles of geometric visibility“ to be in line with Par. 4. / 5.	<i>SLR-37</i>
Annex 2, Table A2-1	The layout of the table was simplified to increase the readability and to avoid confusion	