

Informal document GRE-84-13  
84th GRE, 26-30 April 2021  
Agenda item 4 (b)

This presentation supports the draft proposal for a  
new series of amendments to UN Regulation No. 148

It corresponds with the marked, coloured and commented  
changes in informal document GRE-84-14

A summary of the documents/SLR sessions taken into account as basis for this proposal is provided below with different colours:

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-45-07	<i>Change index (To be finalised)</i>

## Requirement/provision changes

Par.	Content	Document
3.1.2.1 / 3.1.2.2.	Amended requirements for description and drawings	SLR-46-15-Rev.1
3.2.5., Table 2	<i>Change index for series 01</i>	(SLR-45-07)
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-37-06
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	Introducing technology neutral requirements relating to light sources, including combinations of them; Aligned and improved the testing conditions acc. to the light source options and making the Regulation future-proof, by catering for new light source technologies	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 7, drawing	Amended marking requirement (requirement for horizontal part of the downward facing arrow)	SLR-40

## Editorial changes

Par.	Content	Document
3.2.4., Table 1	The rows of the table were reduced by merging the different categories of a function	
Annex 2, Table A2-1	The layout of the table was simplified to increase the readability and to avoid confusion	
3.3.4.5.	Rewritten to consider the correct light source module marking requirements	SLR-32-01-Rev.1
6.1.	Correct paragraph links for conformity of production requirements	No document
[LSD] [RID] [RRD]	The occurrences of these phrases were replaced by 148, 149 and 150 accordingly	No document
4.6.	All failure provisions were merged under Par. 4.6. to avoid paragraph jumping	SLR-32-02/Rev.1
5.x.	<p>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, if no requirements exist it will state “not applicable” or “no additional requirements”.</p> <p>The framework for each subparagraph (function) states:</p> <ul style="list-style-type: none"> <li>5.x.1. Luminous intensity and standard light distribution</li> <li>5.x.2. Minimum luminous intensity within the angles of geometric visibility</li> <li>5.x.3. Minimum or maximum area of apparent surface</li> <li>5.x.4. Measurement</li> <li>5.x.5. Additional specific requirements</li> <li>5.x.6. Failure provisions (only link to Par. 4.6.)</li> <li>5.x.7. Colour</li> </ul>	SLR-32-02/Rev.1

**Editorial changes**

<b>Par.</b>	<b>Content</b>	<b>Document</b>
3.5.	The general provisions for conformity of production stay in this paragraph	SLR-32-21
New Par. 6	Provisions for conformity of production from Par. 3.5. and Annexes 5 and 6 are collected here.	SLR-32-21
Annex 4 & Annex 5	The specific requirements were merged under Par. 6 of the main text.	SLR-32-21
4.8.3.	Headline added	SLR-38-03 Rev.1, SLR-38-04 Rev.1
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
Diff. Paras.	Renumbered for clearer order	SLR-38-03 Rev.1, SLR-38-04 Rev.1
Tables in 5.	Aligned with the new structure in 4.8.3.	SLR-38-03 Rev.1, SLR-38-04 Rev.1
Introduction	Updated the introductory text to reflect the new series of amendments	SLR-40-12-Rev.1
3.1.2.1., 3.1.2.2.	Clarified a provision for devices mounted behind the rear window	SLR-35-01

**Editorial changes**

<b>Par.</b>	<b>Content</b>	<b>Document</b>
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
All values	Changed values to scientific notation	SLR-43-05-Rev.1
3.3.5.2.	Clarification of the text	SLR-37
4.6.1.2.	Small text correction to reflect the changes in Annex 2	SLR-37
4.8.3.	Newly structured and clarified general text for photometric requirements. Some paragraphs were renumbered, some were moved to other places, no change in requirements.	SLR-37
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.	SLR-37
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	SLR-37
5.7.4.	Moved requirement from Annex 3 to main text.	SLR-37
Annex 2	Changed text „light distribution in space“ to „Angles of geometric visibility“ to be in line with Par. 4 and 5.	SLR-37
Annex 2 2.7.1., 2.7.2.	Removed requirements as double to main body text	SLR-37