

**GRE Informal Working Group on  
Simplification of the UN Lighting and Light Signalling Regulations (SLR)**

**72<sup>nd</sup> meeting**  
Brussels, 9-11 April 2025

**REPORT**

		<b>Documents</b>
<b>1.</b>	<b>Welcome and opening remarks</b> The Chairman opened the meeting by welcoming all the participants to the 72 <sup>nd</sup> SLR session.	
<b>2.</b>	<b>Introduction of participants and organisations</b> A list of all participants is available in Annex 1 to this Report.	
<b>3.</b>	<b>Adoption of the agenda</b> The agenda was adopted with the insertion of new documents. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-72-01/Rev.1.	<b>SLR-72-01</b>
<b>4.</b>	<b>Approval of the reports of the previous sessions</b> - Report 66 <sup>th</sup> meeting - Brussels (BE), 7-9 February 2024 - Report 67 <sup>th</sup> meeting - Brussels (BE), 3-5 April 2024 - Report 68 <sup>th</sup> meeting - Brussels (BE), 26-29 July 2024 - Report 69 <sup>th</sup> meeting - Tokyo (JP), 10-12 September 2024 - Report 70 <sup>th</sup> meeting - Brussels (BE), 12-13 December 2024 - Report 71 <sup>st</sup> meeting - Brussels (BE), 5-7 February 2025 SLR approved the reports on the 66 <sup>th</sup> , 67 <sup>th</sup> , 68 <sup>th</sup> and 69 <sup>th</sup> sessions without modifications. The approval of the remaining SLR reports was postponed to the next session.	<b>SLR-66-12</b> <b>SLR-67-14</b> <b>SLR-68-17</b> <b>SLR-69-16</b> <b>SLR-70-17</b> <b>SLR-71-12</b>
<b>5.</b>	<b>Correction of errors in Reg. 150</b> - Homework Team “R-150” proposal (Rev. of SLR-71-06/Rev.1) Mr. Kohyama presented document SLR-72-10 explaining that it is a clean version of the collection of corrections to R150 discussed at SLR-71 in February 2025. The participants reviewed and improved the document as reflected in SLR-72-10/Rev.1. The “Homework Team R-150” will prepare for SLR-73 a revised version of document SLR-72-10/Rev.1 also including justifications. After SLR approval at SLR-73, it intended to be submitted as a formal document to GRE-93.	<b>SLR-72-10</b>
<b>6.</b>	<b>Improvements of the definitions in Regs. 53, 74 and 86</b> - IMMA proposal for R53 with visible track-change (Rev. of SLR-71-09/Rev.1) - IMMA proposal for R74, with visible track-change (based on SLR-71-10/Rev.1) - CEMA draft proposal for R86, based on SLR-71-03/Rev.1 - Consider references to the functions/definitions instead of referring to their paragraphs number, or a combination thereof	<b>SLR-72-16</b> <b>SLR-72-17</b> <b>SLR-72-14</b>

	<p>The expert from IMMA introduced doc. SLR-72-16, a “track-change” version of the proposal to simplify the definitions of Reg.53 (doc. SLR-70-12). The participants reviewed and improved the document as reflected in SLR-72-16/Rev.1. This proposal will be reflected in a baseline document for Reg. 53 that IMMA will prepare for SLR-73.</p> <p>The expert from UK suggested to add, in Annex 1, an item to indicate what series of R48 was used as a reference for the definitions. Today the only reference is the approval certificate with a date, but it does not specify the series of amendments. He commented that adding such information would not increase the administrative burden but it would help the access of information.</p> <p>The expert from IMMA observed that specifying the supplement would not bring any benefit but it could be worth for SLR to consider adding a reference to the series of amendments. An example of the draft text resulting from the discussion during SLR-72 is available, for further consideration, in doc. SLR-72-16/Rev.1</p> <p>The expert from IMMA also introduced doc. SLR-72-17, a “track-change” version of the latest proposal to simplify the definitions of Reg.74 (doc. SLR-71-10/Rev.1). IMMA will reflect this proposal in a baseline document for Reg. 74.</p> <p>The expert from CEMA presented a proposal (doc. SLR-72-14) collecting all the modifications to the definitions of Reg.86 as well as some CEMA comments for harmonisation with Reg.48. CEMA will reflect this proposal in a baseline document for Reg. 86. The modifications proposed to Reg. 48 (deletion of Par. 2.3.4. "Overall dimensions") will be reflected in the next baseline for R48.</p> <p>SLR agreed to decide case-by-case whether replacing references to specific paragraphs with the subject addressed in such paragraphs, or indicating both. SLR furthermore considered to indicate deleted major paragraphs as “reserved” (or “void” or “for future use”), in order to avoid renumbering all the subsequent paragraphs and cross references. This latter approach would be applied in any case for deleted Annexes.</p>	
7.	<p><b>Simplification of paragraphs 6.x.4. and 6.x.5.</b></p> <ul style="list-style-type: none"> <li>- GTB status update to SLR (Reg.48)</li> <li>- Consideration of similar work for the other installation Regulations</li> </ul> <p>The expert from GTB provided a brief status report of the work in progress. The discussion will resume at SLR-73, pending input from GTB on the initial draft presented in doc. SLR-69-11.</p>	
8.	<p><b>Question on lamps and retro-reflectors on movable components</b></p> <p>During the discussion to simplify the provisions for movable components proposed in doc. SLR-72-03 (<i>see item 12 of this Report</i>), the participants suggested that the correct answer among the options given in document SLR-71-08 was A: “<i>Yes, this is a "fixed position" and therefore paragraphs 5.18.1 to 5.18.3 are applicable</i>”.</p> <p>No further discussion. This item will be removed from the SLR agenda.</p>	SLR-71-08
9.	<p><b>Harmonisation of requirements – “Prohibited if not allowed”</b></p> <ul style="list-style-type: none"> <li>- SLR Officers’ input reflecting outcome of discussions in GRE and SLR</li> <li>- OICA input for consideration</li> </ul> <p>SLR reconsidered the latest wording resulting from the SLR discussions (document SLR-70-14/Rev.1) as well as the new input from OICA (document SLR-72-20). The expert from OICA underlined the importance of avoiding different interpretation of the text to have uniform application of the proposed provisions.</p> <p>The expert from UK expressed concerns on the possibility that any commercial vehicle could be fitted with an amber warning beacon. He also suggested to reword Par. 5.22. on top of the existing proposal.</p>	SLR-70-14/Rev.1 SLR-72-20

	<p>SLR recognised that the existing Par. 5.17. of Reg. 53 never caused problems but this might not be the case for Reg. 48. For this reason SLR agreed to keep this point still open for the time being, to further consider how not having adverse effects.</p> <p>The Chairman observed general convergence from the participants on the need to clarify this matter in order to avoid different interpretations of the text.</p> <p>The text of Par. 5 proposed in doc. SLR-70-14/Rev.1 (see the box in slide 3) is not yet the final wording, but will be shown to GRE-92 for feedback from CPs, especially those not usually attending SLR.</p>	
10.	<p><b>Improve the visibility of DI</b></p> <ul style="list-style-type: none"> <li>- Available material and documents (<i>for reference purposes</i>) <ul style="list-style-type: none"> <li>- From Germany (SLR-66-09, SLR-68-14, SLR-69-15, SLR-70-15)</li> <li>- From OICA (see SLR-69-08)</li> </ul> </li> <li>- German revised proposal for SLR-71</li> <li>- German improved wording of proposed Par. 5.7.1.3.3.</li> <li>- OICA input for consideration</li> <li>- CEMA input for consideration</li> </ul> <p>SLR considered the new inputs from OICA (doc. SLR-72-18) and reiterated that the three main factors causing the problem are: size (too small D.I.), proximity (D.I. too close to stop lamps), luminance (too high values).</p> <p>The expert from Poland observed that angles and homogeneity are also important factors and that the values proposed by OICA need a justification. The expert from OICA clarified that the numbers in slide 19 of doc. SLR-72-18 come from existing lamps and were chosen to have a concrete basis for discussion.</p> <p>SLR also considered the input from CEMA (doc. SLR-72-21) and observed that it is in line with the OICA position. The expert from IMMA shared the same stance.</p> <p>The discussion will resume at SLR-73. Mrs. Barton offered to provide some examples and calculations based on the OICA position summarised in slide 19 of doc. SLR-72-18. All experts were invited to exchange views in preparation for the next session. Germany will improve the wording of Par. 5.7.1.3.3. in document SLR-71-04 to better clarify the intention of the proposed requirements.</p>	<p><b>SLR-71-04</b></p> <p><b>SLR-72-18</b></p> <p><b>SLR-72-21</b></p>
11.	<p><b>Apparent surface</b></p> <ul style="list-style-type: none"> <li>- Polish revised proposal to simplify the definition of “surface”</li> <li>- Replace “light emitting surface” with “illuminating surface” in R150</li> <li>- Dutch revised proposal on simplification of “apparent surface”</li> <li>- GTB status update on the work in progress</li> <li>- Polish examples of luminance surface measurements</li> </ul> <p>SLR considered several new documents:</p> <ul style="list-style-type: none"> <li>- Draft proposal from Poland (doc. SLR-72-02), along with some examples (doc. SLR-72-19), to replace the current different definitions with only one “Light emitting surface” definition. The general idea of this proposal was considered not in contradiction with the Dutch proposal.</li> <li>- Draft proposal from “HWT-R150” (doc. SLR-72-11) to replace “light emitting surface” with “illuminating surface” as it was deemed to be more appropriate. The HWT-R150 will prepare a revised proposal with justification for SLR-73.</li> <li>- Revised draft proposal from The Netherlands (doc. SLR-72-12) to improve the definitions and to introduce an alternative method to determine the edges of the apparent surface of signalling lamps by measurement of the luminance image of the individual lamp functions.</li> <li>- Brief status report from GTB (doc. SLR-72-15) on the work in progress for a method based on design data that is easy to be applied at an early design stage. GTB will provide input to SLR-73. In parallel, GTB will investigate a luminance measurement method for determination of apparent surface edges as suggested in the Dutch proposal.</li> </ul>	<p><b>SLR-72-02</b></p> <p><b>SLR-72-11</b></p> <p><b>SLR-72-12</b></p> <p><b>SLR-72-15</b></p> <p><b>SLR-72-19</b></p>

	The discussion will resume at SLR-73. Any input and ideas for consideration shall be sent to the Secretary prior to the session.	
12.	<p><b>Baseline document for Regulation No. 48</b></p> <ul style="list-style-type: none"> <li>- R48 latest draft text, based on SLR-69-05/Rev.1</li> <li>- Improvements of paragraphs 5.18 to 5.20</li> </ul> <p>The Secretary reported that SLR-71-07/Rev.1 is still the latest baseline document for Reg. 48, reflecting all the modifications and improvements agreed so far, as well as several comments and suggestions of improvements for consideration. This document will be updated for SLR-73 to include the latest amendments agreed by WP.29 and GRE. All the participants were reminded to use this document as a basis to draft any proposal to SLR concerning Reg.48.</p> <p>Mr. Gorzkowski introduced the outcome of work (doc. doc. SLR-72-03) made by a small group of volunteers tasked by SLR to work on the improvements of Par. 5.18 to 5.20. SLR acknowledged the significant simplification proposed to the provisions for movable components. The discussion will resume at SLR-73 based on document SLR-72-03/Rev.1.</p>	<p><b>SLR-71-07/Rev.1</b> <b>SLR-72-03</b></p>
13.	<p><b>Baseline documents for Stage 2 / Step 2 work on Regs. 53, 74 and 86</b></p> <p>This item was put on the agenda as a placeholder for future discussion. SLR will decide in a future meeting if Regs. 53, 74 and 86 should also be submitted to GRE as clean baseline documents.</p>	
14.	<p><b>IWVTA proposals to delete UI marking provisions; Review by SLR</b></p> <ul style="list-style-type: none"> <li>- Proposal for UN Regulation No. 148-00</li> <li>- Proposal for UN Regulation No. 148-01</li> <li>- Proposal for UN Regulation No. 149-00</li> <li>- Proposal for UN Regulation No. 149-01</li> <li>- Proposal for UN Regulation No. 150-00</li> <li>- Proposal for UN Regulation No. 150-01</li> </ul> <p>The expert from The Netherlands explained that the six proposals contained in documents SLR-72-04 to SLR-72-09 are basically identical and are all aimed at deleting the UI marking provisions from the device Regulations, both 00 and 01 series of amendments. Furthermore, the chairman explained that the reason for requesting the review by SLR was merely to check (editorially) if nothing was missed.</p> <p>SLR took note of these proposals, without adding any further comments that anything was missed. They will be submitted to GRE-92 as informal documents from The Netherlands.</p>	<p><b>SLR-72-04</b> <b>SLR-72-05</b> <b>SLR-72-06</b> <b>SLR-72-07</b> <b>SLR-72-08</b> <b>SLR-72-09</b></p>
15.	<p><b>Technological neutrality for light sources</b></p> <p><i>For information:</i></p> <ul style="list-style-type: none"> <li>- Paper to support the proposal</li> <li>- Replaceability of light source modules</li> <li>- Revised proposal for Regs. 48, 148 and 149, based on SLR-67-03/Rev.1 and SLR-67-11 from Japan</li> <li>- How to implement lifetime requirements</li> <li>- GTB feedback on lifetime requirements</li> </ul> <p><i>For discussion:</i></p> <ul style="list-style-type: none"> <li>- Input from Germany, based on SLR-68-10, for discussion at SLR-71</li> <li>- GTB input for consideration at SLR-72</li> </ul> <p>The expert from GTB explained the GTB position as summarised in slide 3 of doc. SLR-72-13. SLR debated whether today there is a real problem with LEDs that needs to be addressed, or if the motivation is the technological neutrality only. A number of participants pointed out that durability requirements for LEDs do not</p>	<p><b>SLR-65-04</b> <b>SLR-65-05</b> <b>SLR-68-10</b></p> <p><b>SLR-68-11</b> <b>SLR-70-05</b></p> <p><b>SLR-71-02/Rev.1</b> <b>SLR-72-13</b></p>

	<p>seem justified since an LED component would always pass the lifetime test while there are other elements that may fail. LED is now a proven technology, however testing should be requested for new technology to be safe. Moreover, it was observed that aftermarket products should have the same level of stringency of original parts.</p> <p>The expert from Germany reported that there is no problem at the moment but, to manage potential problems in the future, it is necessary to have some regulatory provisions to be referred to for enforcement. He added that Germany is open to find a compromise, but a solution shall be found.</p> <p>Germany and GTB will further discuss informally this matter during GRE-92 and, if necessary, in dedicated web-meetings. GTB offered to consider the possibility to formulate a revised proposal, if possible, for SLR-73 taking into account the feedback from the discussion with Germany.</p>	
16.	<p><b>Any Other Business</b></p> <p>- SLR status report to GRE-92</p> <p>The Officers have summarised as follows the main contents that should be included in the SLR status report to GRE-92:</p> <ul style="list-style-type: none"> <li>- Improvements of the definitions in Regs. 53, 74 and 86 <ul style="list-style-type: none"> <li>o Deletion of redundant definitions already covered in Reg.48 (embed R53 proposal)</li> <li>o Consider references to the functions/definitions instead of referring to their paragraphs number, or a combination thereof</li> </ul> </li> <li>- Simplification of Installation Regulations <ul style="list-style-type: none"> <li>o Baseline document for R48-10 (consideration also for R53, 74, 86) <ul style="list-style-type: none"> <li>▪ Restructure of Sub-paragraphs 6.x.4. and 6.x.5.</li> <li>▪ Improvements of paragraphs 5.18 to 5.20 (movable components)</li> <li>▪ Harmonisation of requirements – “Prohibited if not allowed”</li> </ul> </li> </ul> </li> <li>- Technological neutrality of light sources</li> <li>- Apparent surface</li> <li>- Improvement of DI visibility against stop lamps</li> <li>- Correction of errors and omissions in Reg. 150</li> </ul> <p>SLR endorsed the contents as presented and agreed that the status report will follow the same format of the last sessions, with a request for feedback from CPs on the subject “Prohibited if not allowed”.</p>	
17.	<p><b>Next meeting(s)</b></p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> <li>➤ 73<sup>rd</sup> SLR meeting - Hybrid in Brussels, on 9-11 July 2025</li> <li>➤ 74<sup>th</sup> SLR meeting - Hybrid in Brussels, on 10-12 September 2025</li> <li>➤ 75<sup>th</sup> SLR meeting - Hybrid in Brussels, on 10-12 December 2025</li> </ul> <p>SLR considered the possibility to hold a meeting in January 2026 for final check of the formal proposals intended for submission to GRE-94 in April 2026. A decision will be taken at the next, or subsequent, meeting when it will be possible to assess the maturity of the whole SLR package.</p>	
18.	<p><b>Closure</b></p> <p>The Chairman thanked all the participants for their contributions and the great teamwork. He also thanked CLEPA for hosting SLR and closed the meeting.</p>	

**Participation at 72<sup>nd</sup> SLR meeting  
Brussels + WebEx, 9-11 April 2025**

*(Note: the asterisk "\*" indicates those who have participated in person)*

<b>9 April 2025</b>	<b>10 April 2025</b>	<b>11 April 2025</b>
Mr. Derwin ROVERS (NL, SLR Chair) *	Mr. Derwin ROVERS (NL, SLR Chair) *	Mr. Derwin ROVERS (NL, SLR Chair) *
Mr. Davide PUGLISI (GTB, SLR Secr.) *	Mr. Davide PUGLISI (GTB, SLR Secr.) *	Mr. Davide PUGLISI (GTB, SLR Secr.) *
Mr. Phil BAILEY (UK) *	Mr. Jim ABRAHAM (OICA)	Mr. Jim ABRAHAM (OICA)
Ms. Silke BARTON (CLEPA)	Mr. Phil BAILEY (UK) *	Mr. Phil BAILEY (UK) *
Mr. Tomás CAETANO (CLEPA) *	Ms. Silke BARTON (CLEPA)	Ms. Silke BARTON (CLEPA)
Mr. Ziya Metin COSKUN (OICA)	Mr. Ziya Metin COSKUN (OICA)	Mr. Thomas BAUCKHAGE (CLEPA)
Mr. Antoine DEPREE (FR)	Mr. Antoine DEPREE (FR)	Mr. Ziya Metin COSKUN (OICA)
Mr. Manabu FUSHIMI (JP)	Mr. Manabu FUSHIMI (JP)	Mr. Antoine DEPREE (FR)
Mr. Marcin GORZKOWSKI (SAE)	Mr. Valter GENONE (GTB)	Mr. Manabu FUSHIMI (JP)
Mr. Beny GRIGORESCU (GTB)	Mr. Marcin GORZKOWSKI (SAE)	Mr. Mark GRAINGER (OICA)
Mr. Frédéric HAY (CLEPA)	Mr. Mark GRAINGER (OICA)	Mr. Beny GRIGORESCU (GTB)
Mr. Pere HERNANDEZ (IMMA) *	Mr. Beny GRIGORESCU (GTB)	Mr. Frédéric HAY (CLEPA) *
Mr. Takahiro KOHYAMA (JP)	Mr. Frédéric HAY (CLEPA) *	Mr. Pere HERNANDEZ (IMMA) *
Mr. Takuya MINAGAWA (IMMA)	Mr. Pere HERNANDEZ (IMMA) *	Mr. Rainer KRAUTSCHEID (DE)
Mr. Kota NAKAHIRA (IMMA)	Mr. Takahiro KOHYAMA (JP)	Mr. Takuya MINAGAWA (IMMA)
Mr. Seiji NEMOTO (JP) *	Mr. Takuya MINAGAWA (IMMA)	Mr. Seiji NEMOTO (JP) *
Mr. Michael PERNKOPF (CLEPA)	Mr. Seiji NEMOTO (JP) *	Mr. Philipp PLATHNER (IEC)
Mr. Lukas SCHWENKSCHUSTER (GTB)	Mr. Philipp PLATHNER (IEC)	Mr. Walter SCHLAGER (IEC) *
Ms. Sonia SUDRIE (OICA)	Mr. Walter SCHLAGER (IEC) *	Mr. Lukas SCHWENKSCHUSTER (GTB)
Mr. Takashi SUGIURA (IMMA)	Mr. Lukas SCHWENKSCHUSTER (GTB)	Ms. Sonia SUDRIE (OICA)
Mr. Tomasz TARGOSIŃSKI (PL)	Ms. Sonia SUDRIE (OICA)	Mr. Takashi SUGIURA (IMMA)
Mr. Christophe TISSIER (CEMA) *	Mr. Takashi SUGIURA (IMMA)	Mr. Tomasz TARGOSIŃSKI (PL)
Mr. Yasumasa TOMINAGA (JP)	Mr. Tomasz TARGOSIŃSKI (PL)	Mr. Yasumasa TOMINAGA (JP)
	Mr. Christophe TISSIER (CEMA) *	
	Mr. Yasumasa TOMINAGA (JP)	
	Mr. Wilfried VAN LAARHOVEN (NL) *	