

Stage 2 Simplification of UN lighting Regulations (GRE-IWG SLR)

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Update on GTB activities



21-22 SEPTEMBER 2021 - HYATT PALACE HOTEL NOVI, MI (USA)





CONTENTS:

- **✓** GRE-IWG SLR
 - Stage 2 Simplification of UN lighting Regulations
 - Headlamp levelling
 - DETA Unique Identifier
- ✓ Brief update on GTB activities

- Workload and meeting pace -

1.	11 September 2014 in Brusseis (BE)
11.	23 October 2014 in Geneva (CH)
<i>III</i> .	14 January 2015 in Brussels (BE)
IV.	13 April 2015 in Geneva (CH)
V.	13 October 2015 in Brussels (BE)
VI.	5-6 November 2015 in Brussels (BE)
VII.	15-16 December 2015 in Brussels (BE)
VIII.	13-14 January 2016 in Brussels (BE)
IX.	29 February & 1 March 2016 in Brussels (BE)
Χ.	14-15 April 2016 in Brussels (BE)
XI.	9-10 June 2016 in Brussels (BE)
XII.	5-7 September 2016 in Brussels (BE)
XIII.	5-7 October 2016 in Brussels (BE)
XIV.	5-7 December 2016 in Brussels (BE)
XV.	21-23 February 2017 in Brussels (BE)
XVI.	22-24 March 2017 in Brussels (BE)
XVII.	16-18 May 2017 in Tokyo (JP)
XVIII.	13-15 June 2017 in Brussels (BE)
XIX.	12-14 July 2017 in Brussels (BE)
XX.	4-6 October 2017 in Brussels (BE)
XXI.	18-21 December 2017 in Brussels (BE)
XXII.	29 Jan / 1 Feb 2018 in Shenzhen (CN)
XXIII.	4-6 April 2018 in Brussels (BE)

30 May / 1 June 2018 in Brussels (BE)

3-5 July 2018 in Brussels (BE)

11 Sentember 2014 in Brussels (BF)

XXVI.	24-26 September 2018 in Brussels (BE)				
XXVII.	10-12 December 2018 in Brussels (BE)				
XXVIII.	25-27 February 2019 in Brussels (BE)				
XXIX.	27-29 March 2019 in Brussels (BE)				
XXX.	22-24 May 2019 in Brussels	(BE)			
XXXI.	3-5 July 2019 in Brussels (BE)			
XXXII.	3-5 September 2019 in Tokyo	(JP)			
XXXIII.	9-11 October 2019 in Brussels (BE)				
XXXIV.	4-6 November 2019 in Bruss	els (BE)			
XXXV.	11-13 December 2019 in Bru	issels (BE)			
XXXVI.	8-10 January 2020 in Brusse	ls (BE)			
XXXVII.	2-4 March 2020 in Brussels (BE)			
XXXVIII.	27-29 May 2020 – WebEx				
XXXIX.	7-10 July 2020 – WebEx				
XL.	26-28 Aug 2020 – WebEx				
XLI.	21-23 Sep 2020 – WebEx				
XLII.	3-5 Nov 2020 – WebEx	38.			
XLIII.	9-11 Dec 2020 – WebEx				
XLIV.	12-14 Jan 2021 – WebEx				
XLV.	17-19 Feb 2021 – WebEx	44.7 30			
XLVI.	24-26 Mar 2021 – WebEx				
XLVII.	10-12 May 2021 – WebEx				
XLVIII.	16-18 June 2021 – WebEx				
XLIX.	20-22 July 2021 – WebEx				
L.	9-10 Sept 2021 – WebEx				





Next meetings:

SLR-51 on 7-8 Oct 2021 **SLR-52** on 15-17 Dec 2021

XXIV.

XXV.

Simplification of UN Lighting and Light-Signalling Regulations





STEP 1

Focus on the <u>device Regulations</u>
Nos. 148, 149 and 150 and to
update the installation UN
Regulations accordingly.

STEP 2

Simplify and update the technical requirements of the UN <u>installation Regulations</u> (Nos. 48, 53, 74, 86), to become technology neutral with performance-based and objective test requirements

SLR "Stage 2 / Step 1" submission to GRE-85



Reg.	Topic / Item	GRE doc. No.
R48.06/.07/.08		GRE/2021/16
R48.03/.04/.05		GRE/2021/17
R53.02/.03	Adaptation of Installation Boas to introduce now boadlaren Classes in B140.01	GRE/2021/19
R53.01	Adaptation of Installation Regs to introduce new headlamp Classes in R149.01	GRE/2021/20
R74.01/.02		GRE/2021/21
R86.01/.02		GRE/2021/22
R148	Draft consolidated 01 series of amendments to Reg. 148	GRE/2021/13
K148	Presentation of the main changes introduced with the 01 series of amendments to Reg. 148	GRE-85-03
D140	Draft consolidated 01 series of amendments to Reg. 149	GRE/2021/14
R149	Presentation of the main changes introduced with the 01 series of amendments to Reg. 149	GRE-85-04
D450	Draft consolidated 01 series of amendments to Reg. 150	GRE/2021/15
R150	Presentation of the main changes introduced with the 01 series of amendments to Reg. 150	GRE-85-05

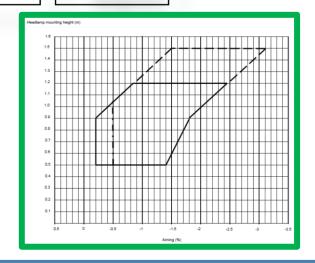
Headlamp Levelling



GRE-IWG SLR submitted a Revised proposal to GRE-84 GRE/2020/8/Rev.2



Removal of the manual levelling option, <u>except for off-road vehicles</u> (i.e. M₂G, M₃G, N₂G, N₃G) New aiming diagram



"GRE noted diverging positions on the proposed aiming diagram and manual levelling for off-road vehicles only. GRE remained optimistic that a consensus could be reached and requested IWG SLR to convene 1-2 additional separate meetings with the aim to reconcile the different positions and to prepare a revised proposal for the next session"



The (traditional) Approval Marking specifies (Example R148):

- 1. The number of the type approval
- 2. The contracting party (country) who is responsible for the type approval
- 3. The Regulation Number the device was type approved to
- 4. The status of the Regulation at the time of type approval
- 5. The different functions that are included in the device
- 6. Any possible restrictions in mounting height
- 7. Any possible restrictions in mounting position
- 8. Any possible restriction to the number of devices necessary (D or Y)

3170 E1 148R (series) 00 R1 S1 2a F1 AR (2a)Y

R1 S1 2a F1 AR

[E1] 3170

148R00

IMPORTANT:

ALL these markings must be visible after the installation of the device on the vehicle

MAY BE REPLACED BY

The (new) Unique Identifier Marking specifies:

1. The unique number of the type approval 270650

IMPORTANT:

ALL these markings must be visible after the installation of the device on the vehicle



With the UI, currently required information becomes invisible, unless you are part of one of the existing user groups in DETA

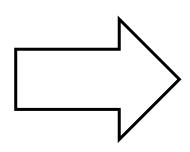


Example: Device used as a beam contributor for different AFS systems

Approval marking

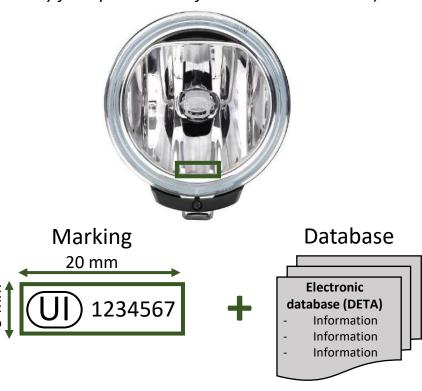
(On any fixed part visible after installation i.e. lens)







(On any fixed part visible after installation i.e. lens)

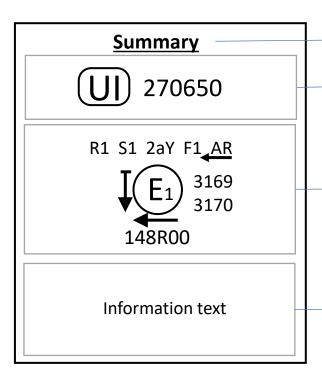


The presence of the marking in front of the optics could have an influence on the quality of the optical system

SLR approach endorsed by DETA



Part A – "Summary" document management



HEADLINE

UNIQUE IDENTIFIER as on the device

TRADITIONAL MARKING

The alternative marking as in the Regulation / Explaining text for the device.

EXPLANATORY / ADDITIONAL TEXT

Explanatory text for the symbols / markings /device if necessary. The intention is to provide equivalent information to the existing marking

Depending on GR's decision



SLR approach endorsed by **DETA**

Part B – Usergroup management

		DOCUMENTS AVAILABLE IN DETA				[<u> </u>	Explanation: R = read	
		CERT (communication on type approval)	TR (test report)	IF (information document)	OTHER (other document)	"Summary" (PDF)	W = read + write + delete	
USERGROUPS DETA	Approval granting TAA (for granted approval)	w	w	w	W	W	Existing access rights And documents (177 th + 183 rd WP.29)	
	CP applying the UN Reg. for which the approval was granted **)	R	R	R	R	R		
	CP applying UN Reg. 0 (access to the approvals of RO and the annexed UN Regulations)	R	R	R	R	R	Additional summary document Additional usergroup	
	CPs not applying that UN Reg.	R	-	-	-	R	Additional usergroup	
	Manufacturer *) (only for own approvals)	R	R	R	R	R		
[] [+]	Periodical technical inspection, Law enforcement bodies, Repair shops	-	-	-	-	R	The public has only read access right of the new document "Summary" via a separate web application	

^{*)} Manufacturers get access upon request to the DETA Administrator.

^{**)} The DETA focal point may provide access to the Market Surveillance Authority of his/her Country, subject to adherence with para. 91 of ECE/TRANS/WP.29/1145.

Brief update on GTB activities



GTB proposal to allow Driver Assistance Projections, on the road ahead of the vehicle, as part of the ADB

- The GTB revised proposal received general support during GRE-84 in April 2021, but several concerns over the proposed technical details were expressed by the CPs.
- ➤ Much work took place within the GTB/WGs after GRE-84, in order to improve the text for taking into account the observations from GRE. Two special session between GTB and Contracting Parties in GRE were organised in June and July 2021 to collect additional feedback.
- ➤ GTB submitted a revised and much improved official proposal to GRE-85 in October 2021 (see GRE/2021/18)
- Some of the aspects that have been addressed and improved:
 - How many (different) symbols or patterns can be used at the same time
 - Clarify if and when flashing and transforming is allowed
 - Positive vs. negative contrast
 - Consider only one symbol/patter per use case (i.e. no options)
 - Distraction for other road users (incl. adjacent lane)
 - Synergy with Reg. 125 on Field of Vision Assistant
 - Clarify in which conditions the Driver Assistance Projections may be used
 - Fail safe conditions

Brief update on GTB activities (cont.)



Work in progress

- Continue to support SLR during the Stage 2 simplification
- "Parking signal" performed by front and rear position lamps (instead of dedicated parking lamps)
- > Consolidation of Reg. 48-07 with correction of errors

Future work

- Signalling Road Projections
- > Reduced Low Beam, DRL and other lighting functions to save energy

Thank you for your attention!





Davide PUGLISI

GTB Secretary-General

Secretary of the GRE Informal WG
on the Simplification of the
UN Lighting and Light Signalling
Regulations (SLR)

Secretary@gtb-lighting.org

www.gtb-lighting.org

https://www2.unece.org/wiki/pages/viewpage.action?pageId=23759699