



Economic and Social Council

Distr.: General
22 August 2025

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

197th session

Geneva, 11–14 November 2025

Item 4.8.8 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRE

Proposal for Supplement 5 to the 01 series of amendments to UN Regulation No. 148 (Light-Signalling Devices)

Submitted by the Working Party on Lighting and Light-Signalling*

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its ninety-second session (ECE/TRANS/WP.29/GRE/92, para. 23). It is based on ECE/TRANS/WP.29/GRE/2024/20/Rev.1 as amended by GRE-92-32. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their November 2025 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect. 20), table 20.6), 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.

Paragraph 1., amend to read:

“1 Scope

This Regulation applies to the following light-signalling devices (lamps):

- Rear-registration plate illuminating lamps
- Direction indicator lamps
- Position lamps
- Stop lamps
- End-outline marker lamps
- Reversing lamps
- Manoeuvring lamps
- Rear fog lamps
- Parking lamps
- Daytime running lamps
- Side marker lamps
- Reversing projectors.”

Insert a new paragraph 3.1.2.9., to read:

“3.1.2.9. In the case of a reversing projector tested together with the reversing lamp according to the requirements of paragraph 5.12.1.2. (b), drawings showing the relative position of the projector and the lamp and the associated measurement report.”

Table 1, amend to read:

“

<i>Lamp (function)</i>	<i>Symbol</i>	<i>Paragraph</i>
Daytime running lamp	RL	5.4.
...		
Stop lamp (variable)	S2	5.5.
Reversing projector	RP	5.12.

”

Table 2, amend to read:

“

<i>Series of amendments to the Regulation</i>	<i>00</i>	<i>01</i>	
<i>Lamp (function)</i>	<i>Change Index for the specific Lamp (function)</i>		
Daytime running lamp	0	1	
...			
Stop lamp (central high mounted)	0	1	
Reversing projector	-	0	

”

Insert a new paragraph 5.12. and related subparagraphs, to read:

“5.12. Reversing projector (RP)

- 5.12.1. Luminous intensity and standard light distribution:
- 5.12.1.1. The intensity of light emitted shall not exceed $1.20 \cdot 10^4$ cd within the projection area as defined by the individual specifications of UN Regulation No. 48, when installed in any mounting position specified by the applicant.
- 5.12.1.2. In addition, outside of the projection area as defined by the individual specifications of UN Regulation No. 48, one of the following conditions shall be fulfilled:
- (a) The light emitted directly towards the rear of the vehicle shall not exceed $5 \cdot 10^{-1}$ cd within the angular field as defined below.
 - (i) The vertical minimum angle $\phi_{\min}$ (in degrees) is:
 $\phi_{\min} = \arctan((1-h)/10)$; where h is mounting height in m
 - (ii) The vertical maximum angle $\phi_{\max}$ (in degrees) is:
 $\phi_{\max} = \phi_{\min} + 11.3$

The measurement shall be limited to a horizontal angle ranging from $+90^\circ$ to -90° with respect to the line which cuts the reference axis and which is perpendicular to the vertical transversal plane of the vehicle.
 - (b) When the apparent surfaces of the reversing projector and the apparent surface of the reversing lamp are arranged in such a way that:
 - (i) Either the projection of the apparent surfaces in the direction of the reference axis of them occupies not less than 60 per cent of the smallest quadrilateral circumscribing the projections of the said apparent surfaces in the direction of the reference axis; or
 - (ii) The minimum distance between the facing edges of the apparent surfaces in the direction of the reference axis of them does not exceed 75 mm when measured perpendicularly to the reference axis,

the reversing projector shall be tested together with the reversing lamp and the integrated luminous intensity shall not exceed the maximum luminous intensity required in the Table 10.
- 5.12.2. Minimum luminous intensity within the angles of geometric visibility
No requirement.
- 5.12.3. Minimum or maximum area of apparent surface:
No requirement.
- 5.12.4. Measurement:
No additional requirement.
- 5.12.5. Additional specific requirements:
None
- 5.12.6. Failure provisions:
No requirement.
- 5.12.7. Colour:
The colour of light emitted shall be white.”

Annex 1,

Initial table, amend the list of lamps to read:

“

Lamp:2	Rear-registration plate illuminating lamp Direction indicator lamp Stop lamp Position lamp End-outline marker lamp Reversing lamp Manoeuvring lamp Rear fog lamp Parking lamp Daytime running lamp Side marker lamp Reversing projector
--------	--

”

Insert a new item 9.1.7. and its subitems, to read:

- “9.1.7. Reversing projector:
- 9.1.7.1. Tested together with reversing lamp:yes/no²
- 9.1.7.2. The luminous intensity of reversing projector is intended to be reduced to not exceed 8.00·10³ cd:yes/no²”