

Correction of UN Regulation No. 148 (Light-signalling devices)

The text reproduced below was prepared by the GRE Informal Working Group on Simplification of Lighting and Light-Signalling Regulations (IWG SLR) with the aim to insert one additional correction to the SLR proposal to amend UN Regulation No. 148.00 (doc. ECE/TRANS/WP.29/GRE/2021/11).

The modifications to the text of UN Regulation No. 148.00 are marked in bold for new or strikethrough for deleted characters.

I. Proposal

Paragraph 5.10.2., amend to read:

“5.10.2. The lamp must be so designed that the light emitted directly towards the side, the front or the rear of the vehicle does not exceed 0.5 cd within the angular field as defined below.

(a) The vertical minimum angle φ_{\min} (in degrees) is:

$\varphi_{\min} = \arctan \left(\frac{1 - \text{mounting height}}{10((1-h)/10)} \right)$; where h is mounting height in m

(b) The vertical maximum angle φ_{\max} (in degrees) is: $\varphi_{\max} = \varphi_{\min} + 11.3$

The measurement shall be limited to a horizontal angle ranging from +90° to -90° with respect to the line which cuts the reference axis and which is perpendicular to the vertical longitudinal plane of the vehicle.

The measurement distance shall be 3.0 m minimum. ”

II. Justification

1. In paragraph 5.10.2., the lack of two parentheses in the angular field formula leads to wrong results. Moreover, the value “h” was not indicated in the formula. The proposed corrections intend to correct these two errors.