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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on Lighting and Light-Signalling (GRE)  
(Fifty-first session, 15-19 September 2003,  
agenda item 1.3.1.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 98

(Headlamps with gas-discharge light sources)

Transmitted by the expert from the Working Party "Brussels 1952" (GTB)

Note: The text reproduced below was prepared by the secretariat (see TRANS/WP.29/GRE/50, paras. 39 and 40). It based on the document without a symbol (informal document No. 20), distributed during the fiftieth GRE session. The document aims to incorporate in the Regulation the specifications of the harmonized driving beam pattern (TRANS/WP.29/GRE/47, para. 60). With regard to the request by GRE (see TRANS/WP.29/GRE/50, para. 40), GTB informed the secretariat on its decision to maintain the use of the letters as proposed in the informal document.

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Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

**A. PROPOSAL**

Paragraph 4.2.2.4., amend to read:

"4.2.2.4. on headlamps meeting the requirements of this Regulation in respect of the driving beam only, the letter "DR"; or on headlamps meeting the requirements of the worldwide harmonized driving beam specified in tables D & E in annex 3, the letter "DH";"

Paragraph 4.2.2.5., amend to read:

"4.2.2.5. on headlamps meeting the requirements of this Regulation in respect of both the passing beam and the driving beam, the letters "DCR"; or on headlamps meeting the requirements of the worldwide harmonized driving beam specified in tables D & E in annex 3, the letter "DCH";"

Paragraph 6.3.2.3., amend to read:

"6.3.2.3. Starting from point HV, horizontally to the right and left, the illuminance shall be not less than 40 lux up to a distance of 1.125 m and not less than 10 lux up to a distance of 2.25 m.

In the case of a headlamp designed to produce a worldwide-harmonized driving beam, the intensities shall conform to the tables "A" and "B" in annex 3. Table "A" applies in the case where a primary driving beam is being produced with a single light source. Table "B" applies in the case where the driving beam is being produced by a secondary driving beam headlamp operated with a passing beam headlamp or a primary driving beam headlamp."

Annex 1, footnote 3/, add the markings "**DH, DH PL**," and "**DCH, DCH PL**" to the existing list.

Annex 3,

Insert after the title tables A and B, to read:

"Annex 3

Table A - Primary driving beam headlamp

Refer to Figure D for details of test point positions

TEST POINT NUMBER	TEST POINT LOCATION	Required illumination in lux	
		Min.	Max.
1	H-V (1/)	(1/)	---
2	H-3R & 3L	40.0	---
3	H-6R & 6L	10.0	---
4	H-9R & 9L	4	---
5	H-12R & 12L	1.2	---
6	2U-V	2	---
7	4D-V	---	(2/)
	MAX. LUMINOUS INTENSITY	70.0	180.0

- (1/) Intensity at H-V shall be equal to or greater than 80 per cent of the maximum intensity in the beam pattern.  
 (2/) Intensity at 4D-V shall be equal to or less than 30 per cent of the maximum intensity in the beam pattern.

Table B - Secondary driving beam headlamp operated with a passing beam headlamp or a primary driving beam headlamp

Refer to Figure E for details of test point positions

TEST POINT NUMBER	TEST POINT LOCATION	Required illumination in lux	
		Min.	Max.
1	H-V (1/)	(1/)	---
2	H-3R & 3L	40.0	---
3	H-6R & 6L	10.0	---
6	2U-V	2	---
7	4D-V	---	(2/)
	MAX. LUMINOUS INTENSITY	70	180

- (1/) Intensity at H-V shall be equal to or greater than 80 per cent of the maximum intensity in the beam pattern.  
 (2/) Intensity at 4D-V shall be equal to or less than 30 per cent of the maximum intensity in the beam pattern."

Add at the end of annex 3 figures D and E, to read:

"Figure D  
Primary Driving Beam

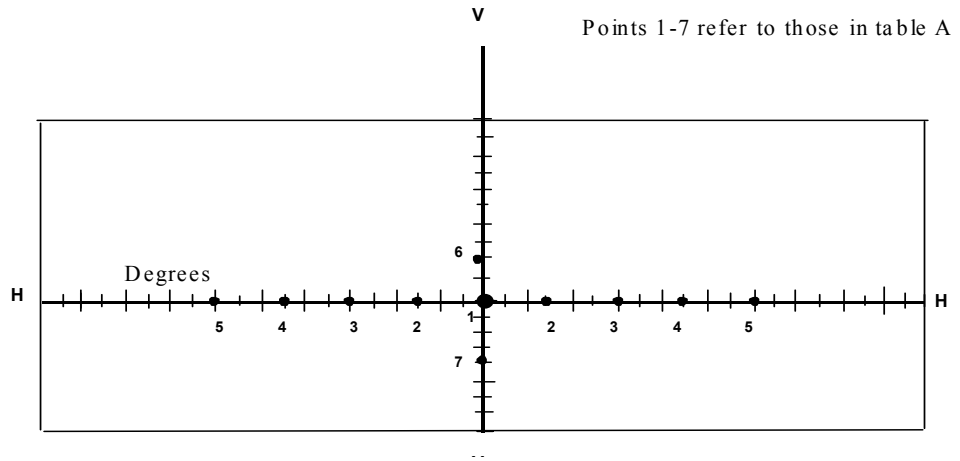


Figure E  
Secondary Driving Beam

