1958 AGREEMENT

Consideration of draft amendments to existing Regulations

Proposal for Supplement 1 to the series 04 of amendments to the Regulation No. 48
(Installation of lights)

Submitted by the Working Party on Lighting and Light-Signalling (GRE) */

The text reproduced below was adopted by GRE at its fifty-eighth session. It is based on ECE/TRANS/WP.29/GRE/2007/62, not amended and on ECE/TRANS/WP.29/GRE-58-19 as reproduced in Annex II to the report. It is submitted to WP.29 and AC.1 for consideration (ECE/TRANS/WP.29/GRE/58, paras. 15 and 25).

*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.
Insert a new paragraph 2.27, to read:

"2.27. "Overall length" means the distance between the two vertical planes perpendicular to the median longitudinal plane of the vehicle and touching its front and rear outer edge, disregarding the projection:

(a) of devices for indirect vision;
(b) of end-outline marker lamps;
(c) of coupling devices, in the case of motor vehicles.

For trailers in the “overall length” and in any measurement in length the drawbar shall be included, except when specifically excluded."

In paragraphs 6.17.4.3. and 6.18.4.3. delete the sentence "in the case of trailers, account shall be taken of the length of the drawbar for the measurement of this distance".

In paragraph 6.18.1. delete the sentence "the length of trailers shall be calculated including the drawbar".

In paragraph 6.21.1.2.2.1. delete the sentence "(including the drawbar for trailers)".

In paragraphs 6.1.4.3, 6.2.4.3, 6.3.4.3 and 6.19.4.3 change the wording "or indirectly through the rear-view mirrors" by “or indirectly through the devices for indirect vision”.

Insert a new paragraph 2.28. and footnote 3/, to read:

"2.28. Colour of the light emitted from a device

2.28.1. "White" means the chromaticity coordinates (x,y) of the light emitted that lie inside the chromaticity areas defined by the boundaries:

\[
\begin{align*}
W_{12} & : \text{green boundary: } y = 0.150 + 0.640 x \\
W_{23} & : \text{yellowish green boundary: } y = 0.440 \\
W_{34} & : \text{yellow boundary: } x = 0.500 \\
W_{45} & : \text{reddish purple boundary: } y = 0.382 \\
W_{56} & : \text{purple boundary: } y = 0.050 + 0.750 x \\
W_{61} & : \text{blue boundary: } x = 0.310
\end{align*}
\]
with intersection points:

| W1 | 0.310 | 0.348 |
| W2 | 0.453 | 0.440 |
| W3 | 0.500 | 0.440 |
| W4 | 0.500 | 0.382 |
| W5 | 0.443 | 0.382 |
| W6 | 0.310 | 0.283 |

2.28.2. "Selective-yellow" means the chromaticity coordinates \((x, y)\) of the light emitted that lie inside the chromaticity areas defined by the boundaries:

SY\(_{12}\) green boundary: \(y = 1.290 x - 0.100\)
SY\(_{23}\) the spectral locus
SY\(_{34}\) red boundary: \(y = 0.138 + 0.580 x\)
SY\(_{45}\) yellowish white boundary: \(y = 0.440\)
SY\(_{51}\) white boundary: \(y = 0.940 - x\)

with intersection points:

| SY\(_1\) | 0.454 | 0.486 |
| SY\(_2\) | 0.480 | 0.519 |
| SY\(_3\) | 0.545 | 0.454 |
| SY\(_4\) | 0.521 | 0.440 |
| SY\(_5\) | 0.500 | 0.440 |

2.28.3. "Amber" means the chromaticity coordinates \((x, y)\) of the light emitted that lie inside the chromaticity areas defined by the boundaries:

A\(_{12}\) green boundary: \(y = x - 0.120\)
A\(_{23}\) the spectral locus
A\(_{34}\) red boundary: \(y = 0.390\)
A\(_{41}\) white boundary: \(y = 0.790 - 0.670 x\)
with intersection points:

<table>
<thead>
<tr>
<th></th>
<th>x</th>
<th>y</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.442</td>
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<tr>
<td>A₃</td>
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<tr>
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<td>0.390</td>
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</tbody>
</table>

2.28.4. "Red" means the chromaticity coordinates \((x,y)\) of the light emitted that lie inside the chromaticity areas defined by the boundaries:

- \(R_{12}\) yellow boundary: \(y = 0.335\)
- \(R_{23}\) the spectral locus
- \(R_{34}\) the purple line (its linear extension across the purple range of colours between the red and the blue extremities of the spectral locus).
- \(R_{41}\) purple boundary: \(y = 0.980 - x\)

with intersection points:

<table>
<thead>
<tr>
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<th>y</th>
</tr>
</thead>
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<tr>
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<tr>
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<td>0.259</td>
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</tbody>
</table>

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3/ CIE Publication 15.2, 1986, Colorimetry, the CIE 1931 standard colorimetric observer."

Paragraph 4.4.1., the reference to footnote 3/ and footnote 3/, renumber as footnote 4/.

Paragraph 5.15, insert footnote 5/ and the references to footnotes 4/ and 5/ and footnotes 4/ and 5/, renumber as footnotes 6/ and 7/.

"5.15. The colours of the light emitted by the lamps 5/ are the following:

- main-beam headlamp: white.....
  - identical incident light 6/  
  - red or yellow to the rear; 7/  
  - .....  

5/ Measurement of the chromaticity coordinates of the light emitted by the lamps is not part of this regulation"
Paragraph 6.2.4.2., the reference to footnote 6/ and footnote 6/, renumber as footnote 8/.

Paragraph 6.2.9., the reference to footnote 7/ and footnote 7/, renumber as footnote 9/.

Paragraph 6.3.4.2., the reference to footnote 8/ and footnote 8/, renumber as footnote 10/.

Paragraphs 6.3.5., 6.3.6.1.1. and 6.5.8., the reference to footnote 9/ and footnote 9/, renumber as footnote 11/.

Paragraph 6.19... the reference to footnote 10/ and footnote 10/, renumber as footnote 12/.

Paragraph 6.19.7., the reference to footnote 11/ and footnote 11/, renumber as footnote 13/.