



# Economic and Social Council

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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

### Working Party on Lighting and Light-Signalling

#### Ninety-first session

Geneva, 22–25 October 2024

Item 6 (a) of the provisional agenda

#### Installation UN Regulations:

UN Regulation No. 48 (Installation of lighting and light-signalling devices)

## Proposal for a Supplement to the 08 and 09 series of amendments to UN Regulation No. 48

### Submitted by the expert from France\*

The text reproduced below was prepared by the expert from France. The modifications to the existing text of the UN Regulation are marked bold for new text.

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\* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), 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.

## I. Proposal

Add a new paragraph 2.5.21. to read:

**"2.5.21. "Work lamp", a device for illuminating a working area or process."**

Paragraph 5.15., add the end:

**"5.15. The colours of the light emitted by the lamps 7 are the following:**

**...**

**Work lamp: [White]"**

Add a new paragraph 6.28. and its subparagraphs, to read:

**"6.28. Work lamp**

**6.28.1. Presence**

**Optional on motor vehicles and trailers**

**6.28.2. Number**

**No special requirement**

**6.28.3. Arrangement**

**No special requirement, however the requirements of paragraph 6.28.9. apply.**

**6.28.4. Position**

**Not higher than the maximum height of the vehicle.**

**6.28.5. Geometric Visibility**

**No special requirement.**

**6.28.6. Orientation**

**Downwards, however the requirements of paragraph 6.28.9. apply.**

**6.28.7. Electrical Connections**

**This lamp shall be operated independently of all other lamps in view of the fact that it does not act as a signalling device on the road.**

**The work lamps shall be automatically switched OFF without any delay if the forward speed of the vehicle exceeds [15] km/h and they shall remain switched OFF until the conditions for activation are met again.**

**The automatic switch ON is reactivated if the manual switch is ON and the vehicle speed drops below [15] km/h for at least [3] seconds.**

**If the work lamps are installed on several sides of the vehicle, the number of manual controls must be sufficient to switch ON and OFF each side independently, to comply with the requirements of paragraph 6.28.9.3.**

**6.28.8. Tell-tale**

**Manually activated and Operating tell-tale mandatory.**

**6.28.9. Other requirements**

**6.28.9.1 This lamp shall not be combined or reciprocally incorporated with another lamp.**

**6.28.9.2 This lamp shall not illuminate the opposite lane of traffic.**

**6.28.9.3 Luminous intensity and standard light distribution:**

**6.28.9.3.1 Above 10°D: The intensity of light emitted shall not exceed [600] cd, when installed in any mounting position specified by the applicant.**

**Under 10°D: The light intensity is limited to [16000] cd.**

**6.28.9.3.2 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 [150] cd within the angular field as defined below.**

(a) **The vertical minimum angle  $\phi_{\min}$  (in degrees) is:**

$$\phi_{\min} = \arctan ((1-\text{mounting height})/10);$$

where h is mounting height in m

(b) **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° to -90° with respect to the line which cuts the reference axis and which is perpendicular to the vertical longitudinal plane of the vehicle.**

**6.28.9.4 Measurement:**

**The measurement distance shall be [3.0] m minimum.**

*Annex 1, add a new item 9.31. to read*

**“9.31. Work lamps: yes/no<sup>2</sup>**

## **II. Justification**

1. Sometimes, we can see these devices on the road. They are potentially dazzling for the following vehicle in particular.
2. Usually they are switched on/off by the driver (no automatic switch-off depending on the speed of the vehicle, for example). The driver often forgets to turn off these lights when the work is finished.
3. These lights are not manoeuvring lamps. No rules exist today except in UN Regulation No. 86 « Installation of lighting and light-signalling devices for agricultural tractors”:
4. They are usually installed after sales.
5. The objective of this proposal is to define common rules while leaving the choice to countries to adopt them or not. These rules must in particular make it possible to automatically cut off the work lamps in circulation to avoid glare and make traffic safer.