

Informal document GRE-88-08-Rev.1 (88th GRE, 25-28 April 2023, agenda item 10 (c))

WORKING PARTY ON LIGHTING AND LIGHT-SIGNALLING (88TH SESSION)

Informal document from France:

- ✓ Blue lighting in front lightning units
- ✓ Work lightnings



Regulation No. 48

Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signalling devices

- ✓ 5. General specifications: 5.15. The colours of the light emitted by the lamps are the following...
 - > No blue colour in the régulation
 - Only white colour on the front (except for direction-indicator lamp)



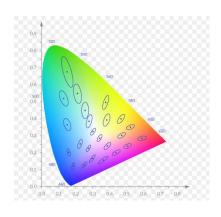


Regulation No. 149

Uniform provisions concerning the approval of road illumination devices (lamps) and systems for power-driven vehicles

✓ Certification measure

√ Visualization







Only White colour

White and blue colour

✓ 4. General technical requirements / 4.16. Colour of light emitted:

The colour of the light emitted **shall be white** for all lamps. However, for front fog lamps the colour of the light emitted may be selective yellow if requested by the applicant.



Questions:

- ✓ What is your opinion on this subject?
- ✓ Do we need to adapt the certification method?
- ✓ Do we need to recognize other colours, possibly by integrating into another function?
- **√** ...



Opinions about colour lighting in front lightning units

Many different national rules (GRE 88 discussions):

- ✓ Blue colour often for emergency or police but not clearly defined in UNECE rules
- ✓ Other colours are seen but not necessarily allowed ("shall be white")
- ✓ Need to work on certification method or to do something that set what an eye can see
- ✓ Technologie have some limits to take into account



Propositions about colour lightning:

- ✓ Option 1: Work on certification method
 - ✓ Need a special workgroup?
- ✓ Option 2: integrate a visual perception "white":
 - ✓ by keeping actual certification rules,
 - ✓ By adding a definition and specificity of a visual perception
 - ✓ by integrating reflexion of colour (witch can be different of emited colour),
 - ✓ By adding a percentage of blue colour
 - **√** ...



WORK LIGHTNINGS



Work lightnings

- ✓ Sometimes, we can see theses devices on the road.
- ✓ Potentially dazzling for the following vehicle.
- ✓ These lights are not « manoeuvring lamp » (R48, 2.7.3.1).
- ✓ Usually switch on/off by the driver (no automatic switch-off depending on the speed of the vehicle for example).



https://www.besse-aupy.com/option/feux-de-travail/



Work lightnings

- ✓ UN Regulation No. 86 « Installation of lighting and light-signalling devices for agricultural tractors":
 - √ 2.6.21: "Work lamp" means a device for illuminating a working area or process.
 - ✓ 6.13.9. This lamp shall <u>not be combined</u> or reciprocally incorporated with another lamp.
 - ✓ No specificities related to driving, switch off on the road, do not dazzle...
- ✓ No regulation for other vehicles?

- ✓ In french traffic regulation (R313-22), « Any vehicle or agricultural or public works equipment may be equipped, for night work, with one or more work lights".
- ✓ Using these devices on roads open to public traffic under conditions other than night work is punished.



Work lightnings

- ✓ Do you allow these lighting systems in your country?
- ✓ How do you regulate them?
- ✓ Do you think that GRE have to regulate them?

- ✓ For example:
 - ✓ Add a new définition in Regulation n° 48
 - ✓ Add General and Specific Technical Requirements in Regulations n° 148



Opinions about work lightnings

Many different national rules (GRE 88 discussions):

- ✓ Colour: White, yellow...
- ✓ Not at the rear of the vehicle...
- ✓ Type of vehicle: industrial, agricultural, all type...
- ✓ Use: parking only, small speed, work condition only, loading/unloading
- ✓ Do not dazzle
- **√** ...

Need to include new technologies

√ ...



Propositions about work lightnings

- ✓ Move/duplicate the definition and specifications from R86 to R48
- ✓ Define conditions of automatic switch-off, installation, not dazzling...
- ✓ Specific national rules have to stay possible



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