

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

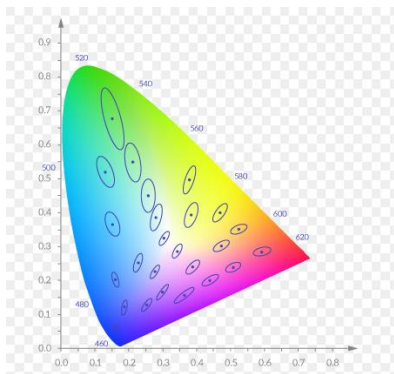
- ✓ 5. General specifications: 5.15. The colours of the light emitted by the lamps are the following...
 - No blue colour in the régulation
 - Only white colour on the front (except for direction-indicator lamp)



Regulation No. 149

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

✓ Certification measure



Only White colour

✓ Visualization



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 (which can be different of emitted colour),
 - ✓ By adding a percentage of blue colour
 - ✓ ...

WORK LIGHTNINGS

Work lightnings

- ✓ Sometimes, we can see these 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-apy.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 not be combined 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

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

Informal document from France:

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

Patrice.baillet@developpement-durable.gouv.fr