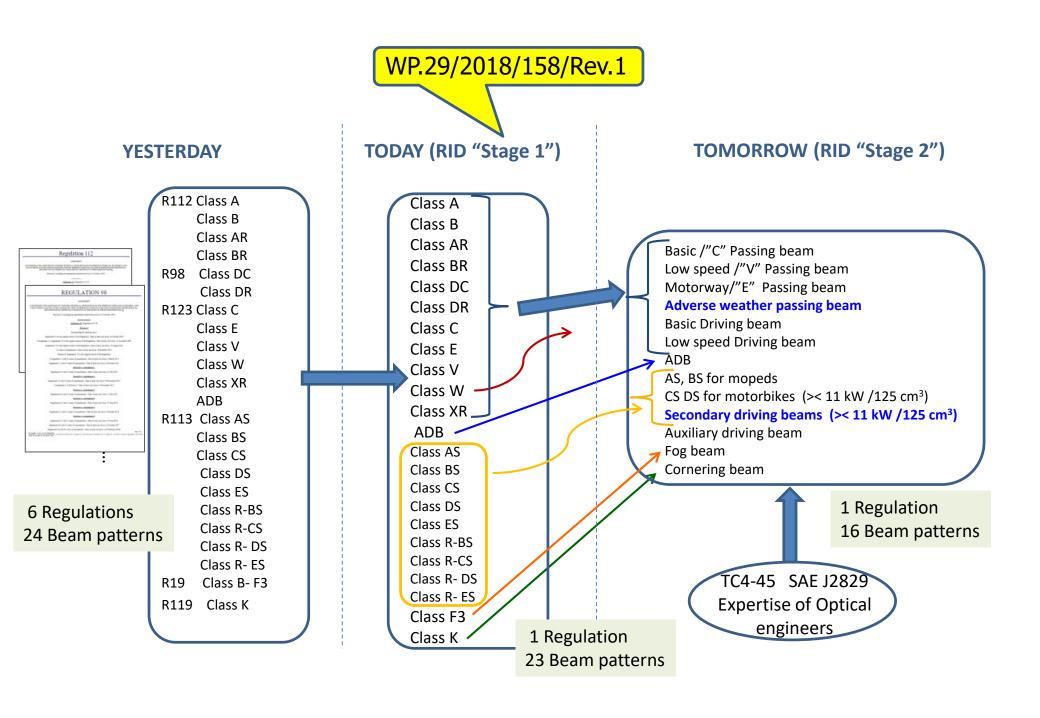
Simplification of the UN Lighting and Light-signalling Regulations

Poland - response to request SLR for advice



Clear justification needed why it is still needed 16 beam patterns?

- Basic (passing beam) what does "Basic" mean? What is max. speed for basic?
- Low speed which speed? Why?
- Motorway is Basic sufficient for motorway or not?

Should be Basic forbidden for motorway driving?

- Adverse weather passing beam is the Basic passing beam sufficient during adverse weather?
 - If **yes** anything more than Basic is not needed (up to manufacturer no need to regulate). If **not** will be Adverse weather mandatory for performance based RID ?
- Is **Fog lamp** = Adverse weather?

 If not who and how will decide regarding use of Adverse weather?

Basic Driving beam

What is the difference for safety between Basic passing beam and Driving beam? (Is Basic passing beam sufficient for safety? If not the other performance based solution is needed)

Is the need to regulate driving beam? (Cancel glare restriction only?)

 Low speed Driving beam – is Basic or Low speed passing beam insufficient?

ADB - if Basic passing beam is sufficient than is no need to define ADB – it can be industry standard and have to meet Basic passing beam only. If not the new attempt to safety/performance headlighting needed

AS, BS for mopeds? - Why low speed Passing is insufficient?

- Secondary driving beams (>< 11 kW /125 cm3)
 - What is the purpose?
 Is the Basic passing beam (or Basic driving beam???) insufficient?

Auxiliary driving beam – as above.

Cornering beam - OK

Installation requirements after SLR step 1 Regulation RID



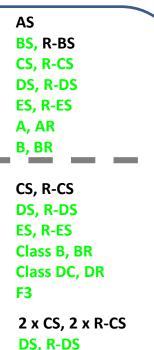


R86



>125 cm³

R74



ES, R-ES

A, AR B, BR

DC, DR

F3

GREEN colour means «optional»

BLACK colour means «mandatory»

Should the beam requirements be based on the category of the vehicle?

- We don't see the need to generate design based special beams for two-wheelers, tractors, machinery, etc.
- The performance oriented is visibility distance and width directly connected with speed and stopping distance + effective protection against glare

There are needed:

- 1. Basic beam
- 1A. Low (which?) speed preferred max. speed assigned to **Basic** type approval
- 2. Adverse weather or fog ?? if Basic is not sufficient.
- 3. Cornering as supporting comfort

The rest RID should meet Basic or Low speed. If not sufficient more safety details needed.

GRE advice needed (1/3)

Is it OK to continue having the headlamp provisions expressed on the basis of luminous intensities equivalent to illuminance measured on screen at a distance of 25m?

Poland advice (1/3)

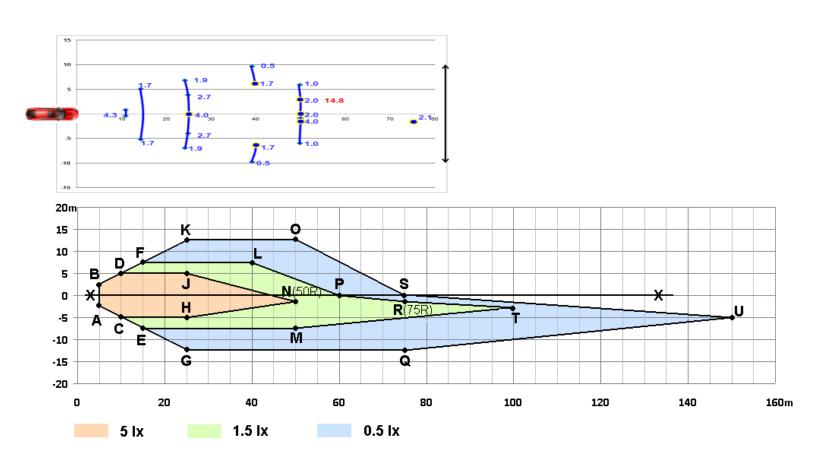
Is it is incorrectly stated question (OK or NOT OK).

Provisions should be adequate **to performance** for road illumination and glare exposed eyes area – not for the screen.

For testing it is possible to use equivalent coordinate system – e.g. goniometer angular and intensities. There is no problem to recalculate.

Poland questions to SLR (or GTB?) idea for RID

(expressed in SLR 28-02)



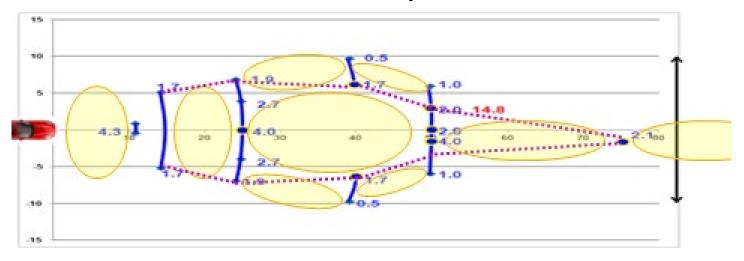
Poland questions to SLR (or GTB?) idea for RID

Clear and detailed justification to each proposed value is expected

- Regarding performance, what does 1.7 lx mean and why it differs from 1.9 lx or 2.0 lx or 1.0 lx or 0.5 lx or 4.0 lx etc?
- Doubt about the distances and widths chosen e.g. why only outside for 40 m etc.
- Why is the required value in point 75R is increased by 20%?
 What does this mean for performance (increase distance or other values in relation to safety)?

Poland questions to SLR (or GTB?) idea for RID

Doubt regarding holes in illumination requirements.



Are holes in light distribution alowed?

Poland questions to SLR idea of RID

• Should the **true performance** requirements with higher expectations than today be met by all present technologies?

 Does the proposal restrict any existing headlamp design which are today legal?

Poland advice to SLR idea of RID

- New attempt for glare suggested. Allow to vertical non-uniform intensity instead of fixed value for glare zone.
 - Intensity may decrease with increasing vertical angle (higher above cut-off than today)
- No reasons for preserving screen points and segments philosophy directly taken from the historical requirements based on parabolic design.

THANK YOU FOR ATTENTION