**Side illuminating lamp**

72 GRE 20-22 October 2014
Accident risk at night

2 times higher

**Fatalities:**
Each 13-th accident during daytime
Each 4-th accident during night time

Many night time accidents are with pedestrians and animals
American research result:

Significant percentage of nighttime traffic time takes place with speed higher than relative visibility distance

Polish research result:

- Most vehicles are driven with incorrectly aimed headlamps
- Manual levelling device is not used or is used incorrectly
- Awareness of driver is insufficient
- Quality of beam pattern in use is often insufficient
Headlights aim on the road

LEGAL REQUIREMENTS
RESULTS

Insufficient visibility

Glare
RESULTS

source: http://wedlnydomowe.pl/
PROPOSAL

Side illuminating lamp

(similar to cornering lamp)
Field of geometric visibility

Lamp should be basically **invisible** for road users
USE:

- With passing beam
- During nighttime
- Outside built-up areas
To be checked:

Need of cut-off and aiming?

\((2.5^\circ; \ 4.5\% \ \text{down})\)
Your reactions, comments, suggestions,
will be appreciated
THANK YOU FOR YOUR ATTENTION