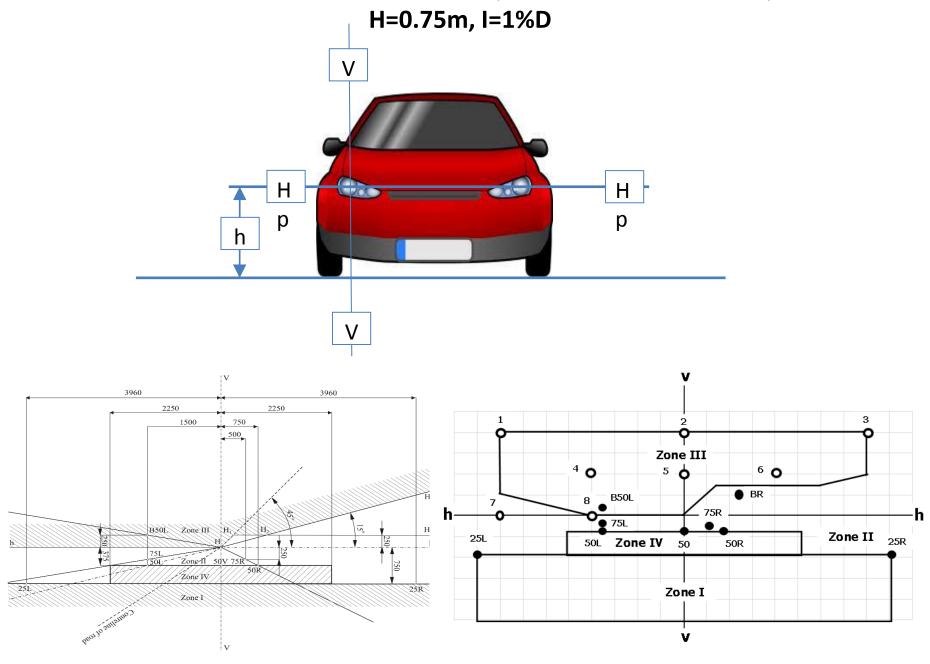
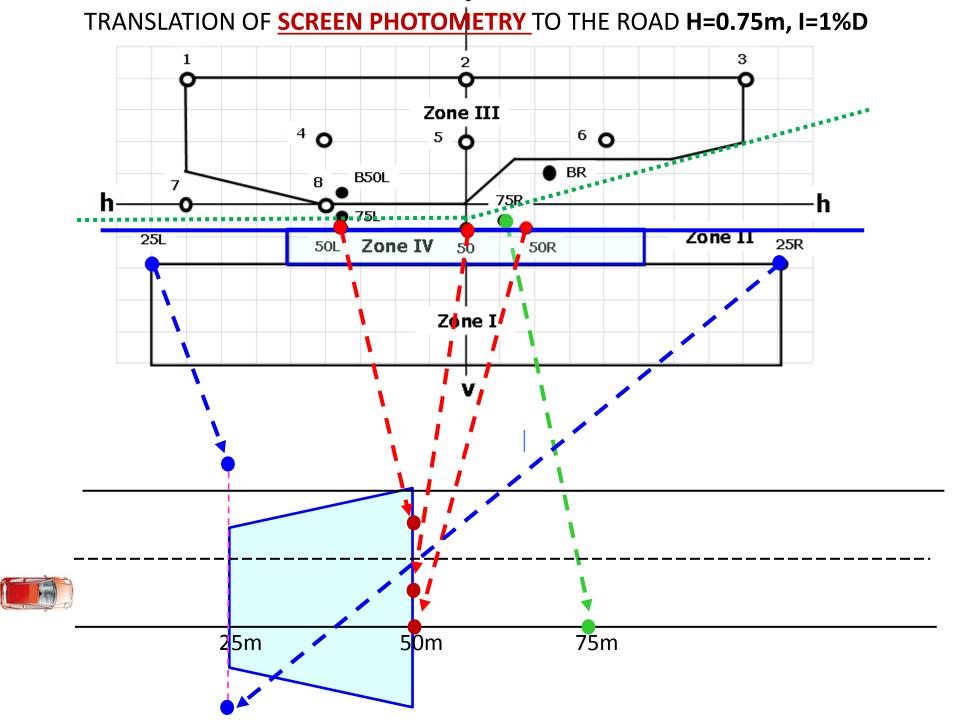
To ECE/TRANS/WP.29/GRE/2014/35 and 36

Alternative definition of photometric requirements

Tomasz Targosinski Ph. D. Eng Poland 72 GRE 20-22 October 2014

PRESENT STATE OF REGULATION (SCREEN REQUIREMENTS)





TRANSLATION OF **SCREEN PHOTOMETRY VALUES**

TO THE ROAD (**H=0.75m, I=1%D**)

For 75R the minimum value is 16.8 lux @25m

Illuminance at 75 m = $16.8/(75/25)^2 = 1.87$ Lux at the road surface.

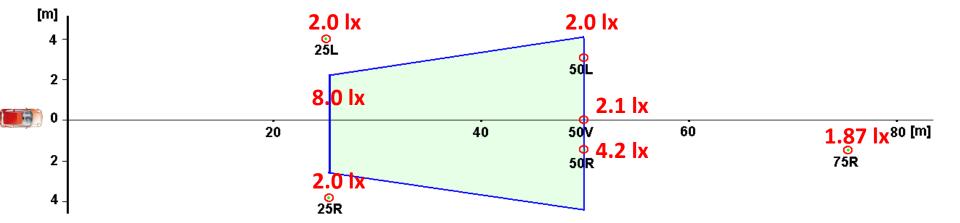
For 50R the minimum value is 16.8 lux @25m

Illuminance at $50m = 16.8/(50/25)^2 = 4.2$ Lux at the road surface.

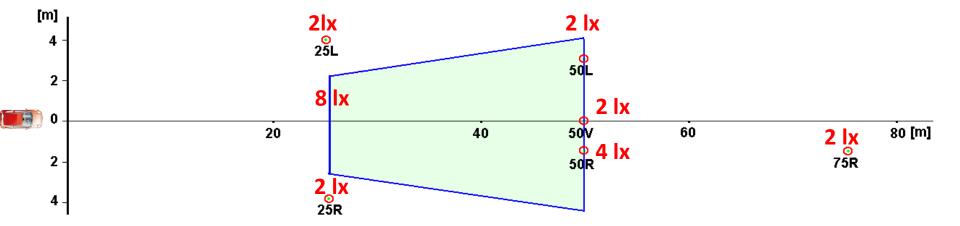
For 50V the minimum value is 8.4 lux @25m

Illuminance at $50m = 8.4/(50/25)^2 = 2.1$ Lux at the road surface.

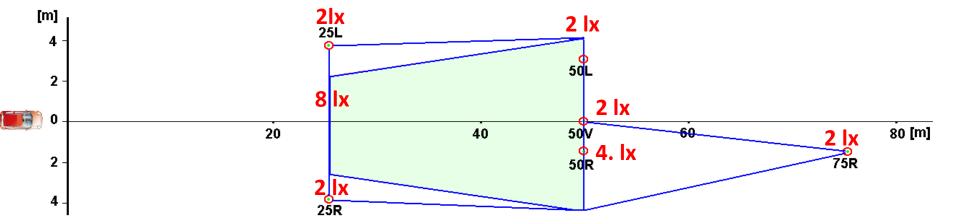
PRESENT STATE (Reg. No 112)



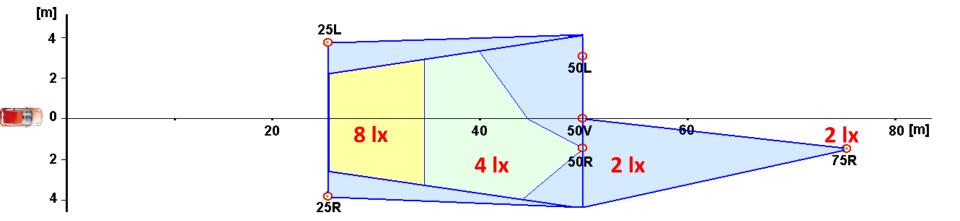
PRESENT STATE (Reg. No 112) (rounded to full lux)



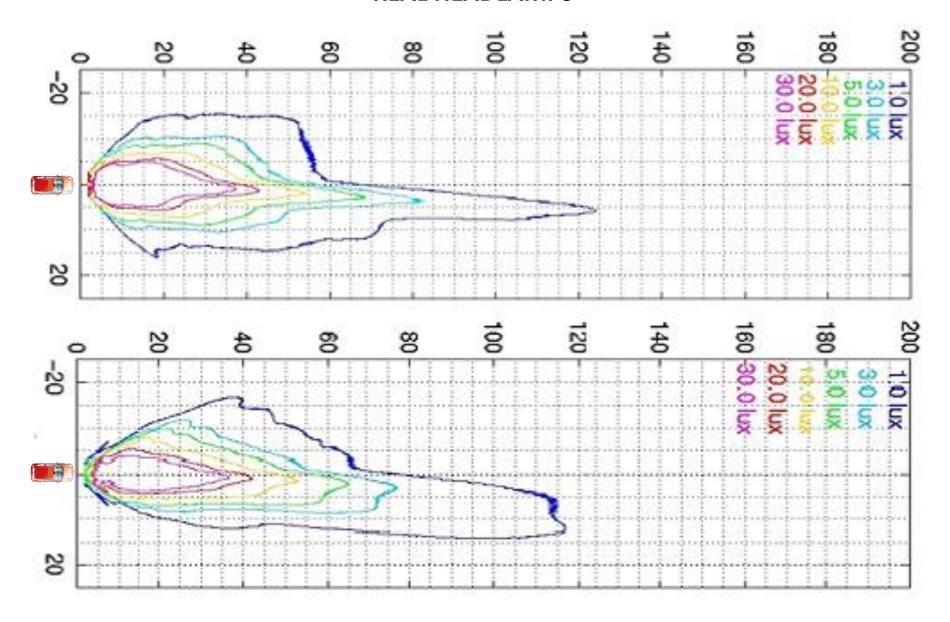
PRESENT STATE (approximation for "uniformity"



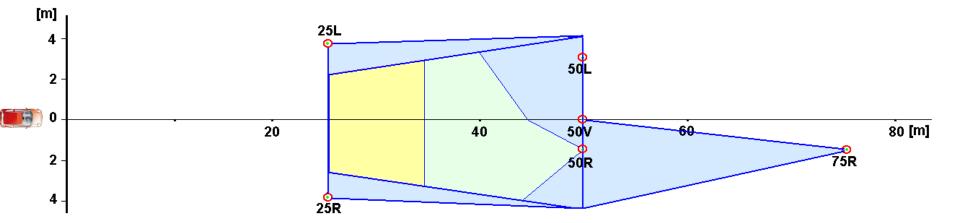
PROPOSAL for approximation



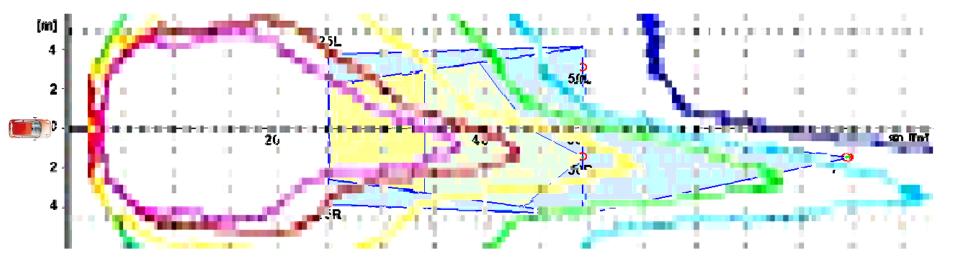
REAL HEADLAMPS



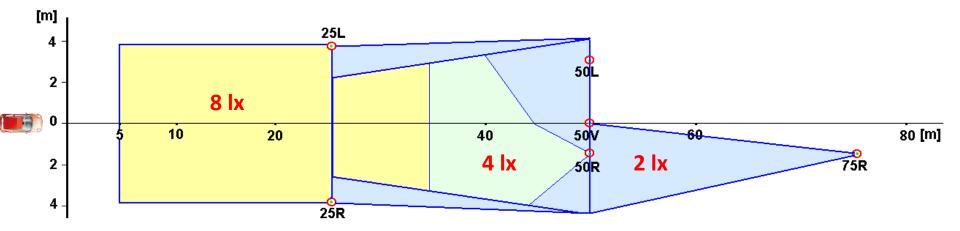
REAL HEADLAMPS REGULATION PRESENT REGULATORY STATE



REAL HEADLAMPS



PROPOSAL Reqiurements defined at the road surface

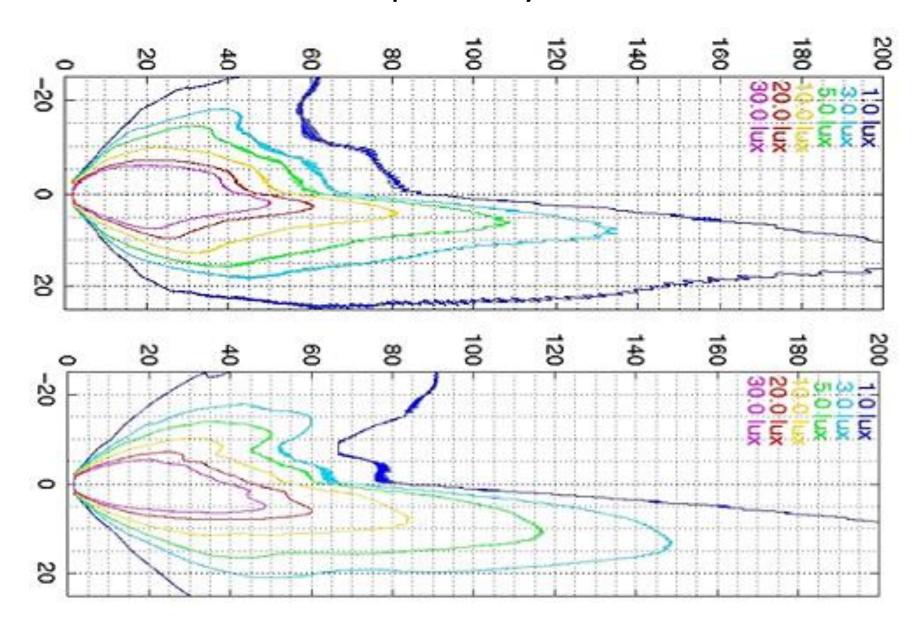


PROPOSAL

- •MEASUREMENT WILL BE DONE IDENTICAL AS TODAY (PHOTOGONIOMETRICAL)
- •REQUIRED VALUES WILL NOT CHANGE !!!
- •FLUX LIMIT WILL BE NOT NEEDED !!!
- ROAD ILLUMINATON WILL BE APROPRIATE

•NO "EXOTIC" LIGHT DISTRIBUTIONS

HID headlamps - similarly defined





THANK YOU FOR YOUR ATTENTION