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

Alternative definition of photometric requirements

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PRESENT STATE OF REGULATION (SCREEN REQUIREMENTS)

H=0.75m, I=1%D
TRANSLATION OF **SCREEN PHOTOMETRY** TO THE ROAD \( H=0.75 \text{m}, I=1\%D \)
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 = \(\frac{16.8}{(75/25)^2}\) = **1.87 Lux** at the road surface.

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

Illuminance at 50m = \(\frac{16.8}{(50/25)^2}\) = **4.2 Lux** at the road surface.

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

Illuminance at 50m = \(\frac{8.4}{(50/25)^2}\) = **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
PROPOSAL

Requirements 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 ILLUMINATION WILL BE APPROPRIATE

• NO „EXOTIC” LIGHT DISTRIBUTIONS
HID headlamps – similarly defined
THANK YOU FOR YOUR ATTENTION