EXPLANATIONS TO ECE/TRANS/WP.29/GRE/2016/18

OPTIONAL PERFORMANCE BASED CLASS B1 PASSING BEAM (REG. No 112)

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FIXED DESIGN FACTORS INCLUDED IN REQUIREMENTS OF REG. 112

LUMINOUS FLUX OF LIGHT SOURCE

FOCAL DISTANCE BETWEEN LIGHT SOURCE AND REFLECTOR

GEOMETRICAL SHAPE AND SIZE OF FILAMENT

GEOMETRICAL SIZE OF HEADLAMP

USE OF „STANDARD“ HEADLAMP (an effective diameter not less than 160 mm) AND „ETALON“ BULB

Shield for CUT-OFF
AFTER REMOVING FLUX THE OTHER FACTORS WILL INFLUENCE THE FINAL QUALITY OF BEAM PATTERN
REQUIREMENTS AREA OF EXISTING REG. No. 112

GOOD PERFORMING HALOGEN HEADLAMP
(2004 - TWELVE YEARS OLD)
REQUIREMENTS AND TECHNOLOGY POSSIBILITY
Feedback received

PROPOSAL SLIGHTLY MODIFIED
EXISTING AREA OF REQUIREMENTS IN REG. 112

PROPOSED AREA OF REQUIREMENTS AND VALUES (SINGLE HEADLAMP)

Slightly modified according feedback
PROPOSED VALUES AND REAL POSSIBILITY
(HALOGEN HEADLAMP – 2004)
ANOTHER EXAMPLE
GOOD PERFORMING HID SYSTEM
OPTIONAL REQUIREMENTS (CLASS B1 Reg. 112)

PROFITS:

• REAL PERFORMANCE BASED REQUIREMENTS

• REMOVE ALL OLD "DESIGN" FACTORS

• ALLOW FOR USE ANY LIGHT SOURCE INDEPENDENTLY ON FLUX, POWER, SIZE ETC.

• OPTIONAL – NO OBLIGATION TO FOLLOW BUT:
PROFITS:

• OPTIONAL – NO OBLIGATION TO FOLLOW BUT:

  - IF HEADLAMP WILL MEET „STRONGER” (B1 – LED LEVEL) REQUIREMENTS CAN BE EFFECTIVELY PROMOTED/ADVERTISED TO THE CUSTOMERS

  - FREEDOM FOR LED HEADLAMPS - NO NEED TO FOLLOW „1000lm” FLUX REQUIREMENT

  - TIME TO THE FINISH OF SIMPLIFICATION PROCESS CAN BE USED TO COLLECT EXPERIENCE WITHOUT ADDITIONAL EFFORT

  - IN FUTURE WILL BE POSSIBLE CORRECTION (SIMPLIFICATION) OF REQUIREMENTS BEFORE EVENTUAL INTRODUCING IT AS OBLIGATORY

  - NO PROBLEM WITH OBJECTIONS FROM SOME MANUFACTURERS – IT IS NO OBLIGATION TO FOLLOW THIS REQUIREMENTS
THANK YOU FOR YOUR ATTENTION