

# Amendments to R113 & R53

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# Background

- At 56/GRE, April 2006, IMMA presented Informal document GRE-56-7, which explained the research background and contained the original proposal for:
  - creating a new symmetrical beam in R113, with broadly the same performance as R98
  - adding this new beam and R98 to R53

# Discussions at 58/GRE

- 58/GRE agreed to the IMMA proposal provided that:
  - 5-years after the amendment came into force, the requirement would be that the cut-off line would have to remain within the range -0.5% and -2.5% under all conditions of loading (how this was to be achieved was up to the manufacturer)
  - compliance with this requirement would only be tested in the rider-alone and the fully laden condition
- IMMA would prepare the texts for 59/GRE

# The R113 Amendment

- The amendment is in GRE/2006/47/Rev.1
- The beam pattern for lamps >2000 lumens is based on the following elements:
  - (a) above the HH line the beam remains the same as the other beam patterns in Regulation No. 113
  - (b) below the HH line, the values for individual points have been raised but the highest increase still leaves the maximum value for that particular point at the same level as in Regulation No. 98, e.g. points 1 & 3.
- The overall effect of these measures is to maintain the same level of comfort for the on-coming driver, while providing better illumination for the rider.

# The R53 amendment

- The amendment is in GRE/2006/46/Rev.1
- This text introduces into R53, the installation requirements for headlamps with a light source having an objective luminous flux which exceeds 2000 lumens
- It specifies the tests for the vertical alignment of these lamps
- It also specifies the transitional provisions agreed by 58/GRE

# Corrections to GRE/2006/46/Rev.1

- GRE experts have identified corrections to the document, based on:
  - unnecessary duplication/conflict of definitions
  - unused definitions
  - clarification of the test procedure
- (Project modified text)