Substitute/Retrofit Demonstration

5th GRE TF S/R Meeting

Aachen (Germany), 30-January 2019
H7 filament acc. to R37
OEM LED Headlamp

LED headlamp acc. To R112
Very bad “”H7-Retrofit””
(“Maiskolben”)

Please note that the H7 distribution appears different due to the changed camera settings: The low light level and the blueish color lead to a longer exposure time Which let the Halogen beam appear whiter and brighter than normal.
H7 Reflector Headlamp

Bad “H7-Retrofit”

H7 filament acc. to R37
Good “H7-Retrofit”

not fulfilling all equivalence criteria

H7 filament acc. to R37

Leading to a compliant beam with some deviations compared to the Halogen beam
H7 Substitute “H7/LED”  
Prototype fulfilling all proposed equivalence criteria; TFSR-05-04

H7 filament acc. to R37

Besides the color temperature, more or less the same beam. All beam details are traceable!