

# **CALCULATIONS FOR „PERFORMANCE” GLARE LINE No 7**

## Assumptions taken for glare line No 7:

- The intensity under cut-off for distances considered (25 m...100 m) is high enough to cause glare
- Cut-off should be always under eye-height beyond 25 m from vehicle
- Minimum eye-height is 0.95 m
- Cut-off cannot be inclined higher than horizontal

### FORMULA:

$$I = \Delta h / L_{\min}$$

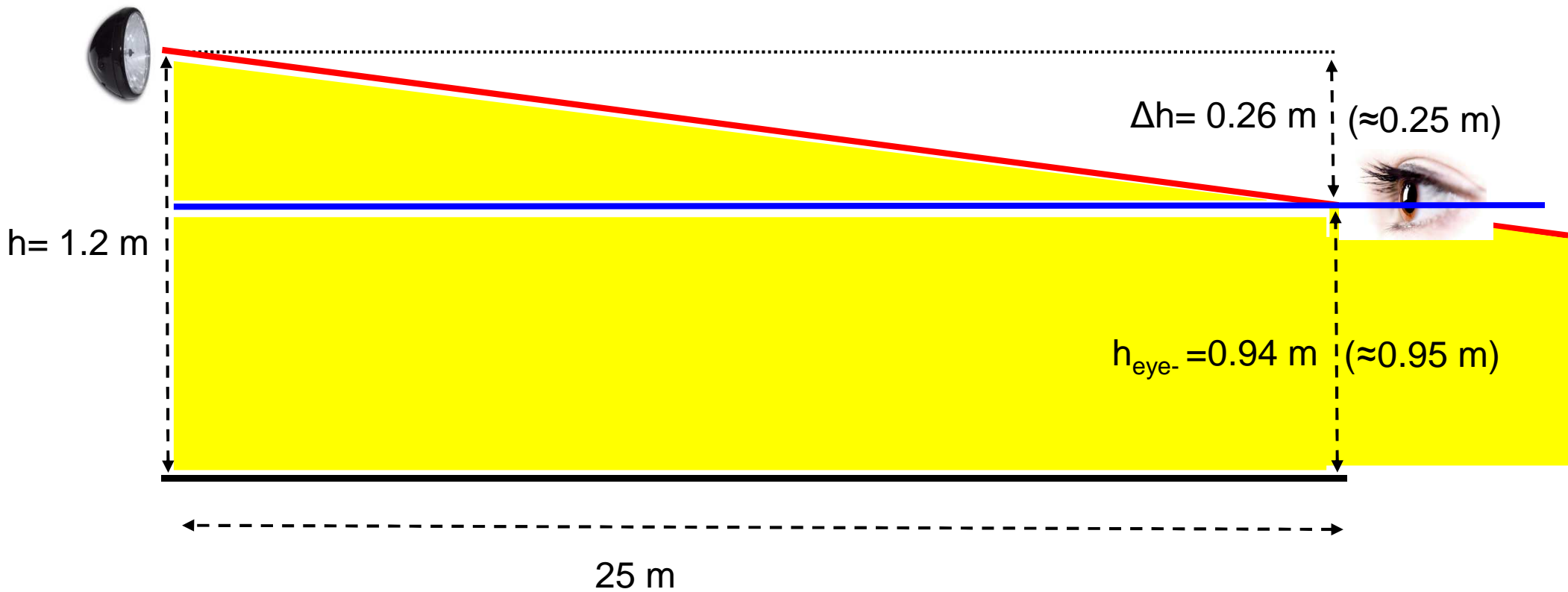
I - cut-off inclination

$\Delta h$  - headlamp optical axis height over minimum eye-height

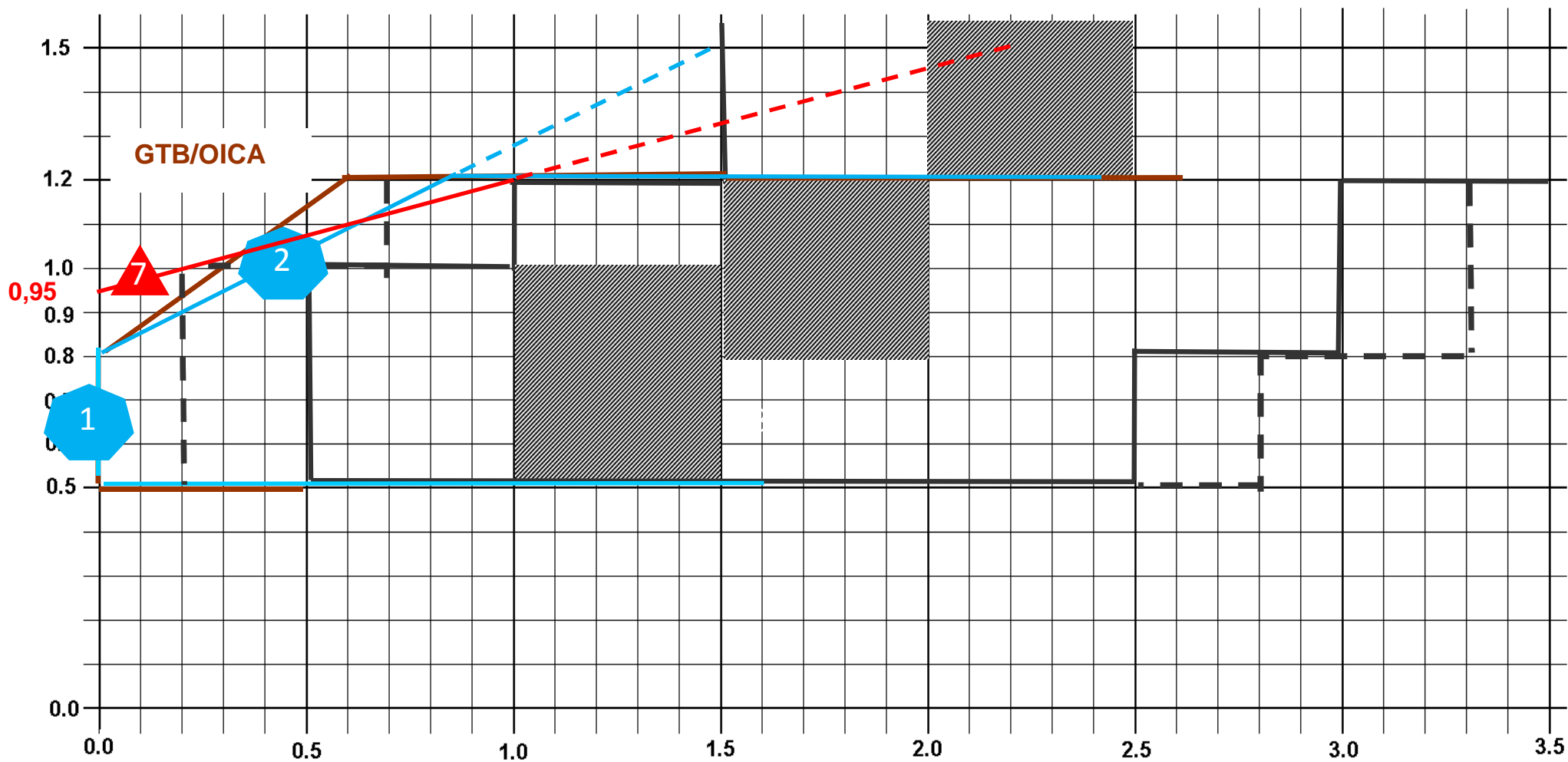
$L_{\min}$  - maximum distance beyond the vehicle where glare is accepted (25 m)

CALCULATION EXAMPLE FOR  
HEADLAMP HEIGHT OF 1.2 m

$$I = 0.25\text{m}/25\text{m} = 1\%$$



Lines '2' and '7' for 1.2 m and for 1.5 m



Right lines (3, 4, 5, 8, 9) are removed to have clear glare image

CALCULATION EXAMPLE FOR  
HEADLAMP HEIGHT OF 1.5 m

$$I = 0.55\text{m}/25\text{m} = 2.2\%$$

