log [(ΔY/Y) / (ΔY/Y)_u]    **CIE Y sensitivity**

$S_r/S_{ru} = (ΔY/Y)/(ΔY/Y)_u$ **normalized to** $ΔY_u/Y_u$

$100 L*_{85,2} = (t/a) \ln(1 + a \cdot Y)$    [1f]

a=0,3411    t/a=88,23    t/a=258,6    [2f]

**tristimulus value Y sensitivity**

$(dY/Y) / (dY_u/Y_u)$

$= [(1 + a \cdot Y)/Y] / [(1 + a \cdot Y_u)/Y_u]$    [3f]

3,580

0,885

$\log[(dY/Y)/(dY/Y)_u] = 0$, $m_u = -0,13$

$Y_u = 18$, $dY_u = 0,08$, $(dY/Y)_u = 0,004$

**application range**

0,1    1    10    $Y_u = 18$ 100 $Y$

heb60−6a