HAULAB tristimulus value difference
ΔY normalized to ΔY_u

$\Delta Y/\Delta Y_u$

$L^* = s\,(Y/Y_n)^n - d$ $(Y_n=100, Y_u=12, s=163{,}9, n=0{,}31, d=36{,}8)$ [1a]

$L^* = r\,(Y/Y_n)^n - d$ $(r = s\,(Y_u/Y_n)^n = 96{,}32, L^*_u = d = 59{,}4)$ [1b]

$dY = [Y_n/(\,n\,s\,)]\,(Y/Y_n)^{1-n}$ [2c]

$dY = [Y_u/(\,n\,s\,)]\,(Y_u/Y_n)^{1-n} = 1{,}1565$ [2d]

$dY/dY_u = (Y/Y_u)^{1-n}$ [2e]

$m_{u90\_4} = 0{,}018, f_{90}=1, f_4=0$

$m_u = 1{,}559$

$4{,}112$

$1{,}059$

$0{,}1$ 1 $0{,}276$ 10 $Y_u=18$ 100

$Y_u=12$

$\varphi = 30'$
$L_{aw} = 40\ \mathrm{cd/m^2}$
application range

-2 -1 0 1 2 **log Y**

hev80–8a