TUBsRGB tristimulus value difference
ΔY normalized to ΔY_u

$\log (\Delta Y / \Delta Y_u)$

$\Delta Y / \Delta Y_u$

$L^* = s\,(Y/Y_n)^n - d$ ($Y_n = 100$, $Y_u = 18$, $s = 100$, $n = 1/\ln(10)$, $d = 0$) [1a]

$L^* = r\,(Y/Y_n)^n - d$ ($r = s\,(Y_u/Y_n)^n = 47{,}48$, $L^* = r - d$) [1b]

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

$dY_u = [Y_n/(\,n\,s\,)]\,(Y_u/Y_n)^{1-n} = 1{,}0934$ [2d]

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

$\log(dY/dY_u) = (1-n)\,\log(Y/Y_u)$ [2f]

$\mathbf{0{,}391}$

$m_{nu} = 1 - n = 0{,}565$

$m_u = 0{,}565$

application range

$\mathbf{0{,}1}$ $\mathbf{-0{,}739}$ $\mathbf{10}$ $Y_u = 18$ $\mathbf{100}$

Y

$\log Y$

heo40–6a