

**log ( $\Delta Y/\Delta Y_u$ )**      **TUBsRGB tristimulus value difference**

$\Delta Y/\Delta Y_u$

$\Delta Y$  normalized to  $\Delta Y_u$

**2**      **100**  $L^* = s (Y/Y_n)^n - d$  ( $Y_n=100, Y_u=18, s=100, n=1/\ln(10), d=0$ ) [1a]

$L^* = r (Y/Y_u)^n - d$  ( $r = s (Y_u/Y_n)^n = 47,48, L^*_u = r - d$ ) [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]

**1**      **10**  $dY / dY_u = (Y / Y_u)^{1-n}$  [2e]

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

