

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

$\Delta Y/\Delta Y_u$

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

2 **100**  $L^* = s(Y/Y_n)^n - d$  ( $Y_n=100, Y_u=11, s=134,6, n=0,31, d=19,2$ ) [1a]

$L^* = r(Y/Y_u)^n - d$  ( $r = s(Y_u/Y_n)^n = 79,10, L^*_u = r - d = 59,8$ ) [1b]

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

$dY_u = [Y_n / (n s)] (Y_u/Y_n)^{1-n} = 1,4083$  [2d]

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

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

0  $L^*_{TUB}/L^*_{TUB,u} = (Y/Y_u)^{1/n} = 10^{1/n} = 1,20$

$m_{nu} = 1 - n = 0,690$

$m_u = 0,636$

$L^*_{TUB}/L^*_{TUB,u} = (Y/Y_u)^{1/n} = 10^{1/n} = 1,20$   
 $L_{aw} = 40 \text{ cd/m}^2$

application range

