

$\log(L^*_{80}/L^*_{80,u})$ HAULAB lightness L^*_{80} normalized
 $L^*/L^*_{80,u}$ to the background lightness $L^*_{80,u}$

$$100L^*=s(Y/Y_u)^n - d \quad (Y_u=100, Y_u=23, s=153,7, n=0,31, d=47,9) \quad [1a]$$

$$L^*=r(Y/Y_u)^n - d \quad (r=s(Y_u/Y_u)^n=90,34, L^*_u=r-d=42,3) \quad [1b]$$

$$L^*/L^*_{80,u}=g(Y/Y_u)^n - h \quad (g=r/(r-d)=2,13, h=d/(r-d)=1,13) \quad [1c]$$

$$\log [(L^*/L^*_{80,u} + h) / g] = n \log (Y/Y_u) = 0,31 \log (Y/23) \quad [1d]$$

$$\ln [(L^*/L^*_{80,u} + h) / g] = n \ln(10) \log (Y/Y_u) = 0,71 \log (Y/23) \quad [1e]$$

$$(L^*/L^*_{80,u} + h) / g = e^{n \ln(10) \log (Y/Y_u)} = e^{0,71 \log (Y/23)} \quad [1f]$$

