

$L^*/L^*_u$ 

TUBsRGB-Helligkeit  $L^*$  normiert  
für die Umgebungshelligkeit  $L^*_u$

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

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

$$L^*/L^*_u = (Y/Y_u)^{1/\ln(10)} \quad (\ln(x) = \ln(10) \log(x)) \quad [1c]$$

