

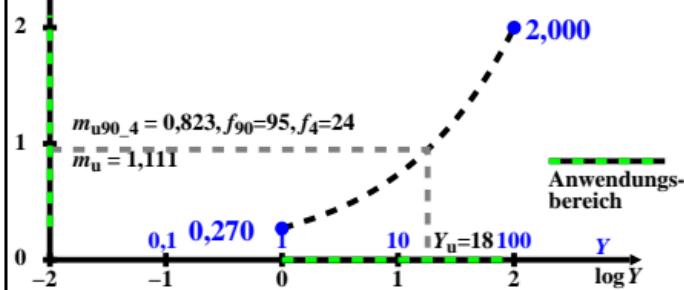
L^*/L^*_u TUBsRGB-Helligkeit L^* normiert für die UmgebungsHelligkeit L^*_u

L^*/L^*_u

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=20, s=100,0, n=1/\ln(10), d=0) \text{ [a]}$$

$$L^* = r(Y/Y_u)^n - d \quad (r=s(Y_u/Y_n)^n=47,48, L^*_u=r-d=47,4) \quad [1b]$$

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



hgp91-5a

$\Delta Y/\Delta Y_u$ TUBsRGB-Normfarbwertdifferenz ΔY normiert für ΔY_u

$\Delta Y/\Delta Y_u$

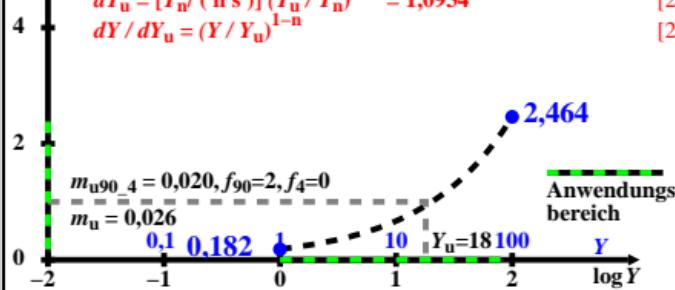
$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=20, s=100,0, n=1/\ln(10), d=0) \text{ [a]}$$

$$L^* = r(Y/Y_u)^n - d \quad (r=s(Y_u/Y_n)^n=47,48, L^*_u=r-d=47,4) \quad [1b]$$

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

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

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



hgp91-6a

$(\Delta Y/Y) / (\Delta Y/Y_u)$ TUBsRGB-Y-Empfindlichkeit normiert für $(\Delta Y/Y_u)$

$S_r/S_{ru} = (\Delta Y/Y)/(\Delta Y/Y_u)$

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=20, s=100,0, n=1/\ln(10), d=0) \text{ [a]}$$

$$L^* = r(Y/Y_u)^n - d \quad (r=s(Y_u/Y_n)^n=47,48, L^*_u=r-d=47,4) \quad [1b]$$

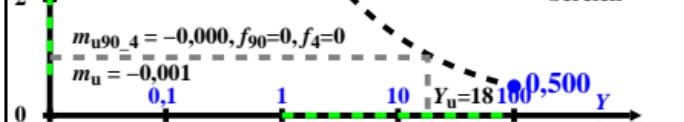
$$dY/Y = [(Y_n / (n s)) (Y_u / Y_n)^{1-n}] / Y \quad [3c]$$

$$(dY/Y)_u = [(Y_n / (n s)) (Y_u / Y_n)^{1-n}] / Y_u \quad [3d]$$

$$(dY/Y) / (dY/Y)_u = (Y/Y_u)^{-n} \quad [3e]$$

3,697

Anwendungsbereich



hgp91-7a

hgp91-7n

$(Y/\Delta Y) / (Y/\Delta Y_u)$ TUBsRGB-Y-Kontrast normiert für $(Y/\Delta Y_u)$

$C_r/C_{ru} = (Y/\Delta Y)/(Y/\Delta Y_u)$

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=20, s=100,0, n=1/\ln(10), d=0) \text{ [a]}$$

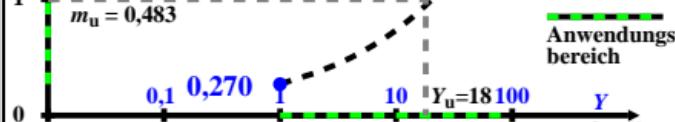
$$L^* = r(Y/Y_u)^n - d \quad (r=s(Y_u/Y_n)^n=47,48, L^*_u=r-d=47,4) \quad [1b]$$

$$Y/dY = Y / \{ [(Y_n / (n s)) (Y_u / Y_n)^{1-n}] \} \quad [4c]$$

$$(Y/Y_u) = Y_u / \{ [(Y_n / (n s)) (Y_u / Y_n)^{1-n}] \} \quad [4d]$$

$$(Y/dY) / (Y/dY)_u = (Y/Y_u)^n \quad [4e]$$

1,998



hgp91-8a