L^*/L^*_u

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

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

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

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

$\log(L^*/L^*_u) = (1/\ln(10))\,\log(Y/Y_u)$ [1d]

$\ln(L^*/L^*_u) = \log(Y/Y_u)$ [1e]

$L^*/L^*_u = e^{\log(Y/Y_u)}$ [1f]