

$\log (L^*/L^*_u)$

CIELAB-Helligkeit L^* normiert
für die Umgebungshelligkeit L^*_u

L^*/L^*_u

2 **100** $L^* = s(Y/Y_n)^n - d$ ($Y_n=100, Y_u=18, s=116,0, n=1/3, d=16,0$) [1a]

$L^* = r(Y/Y_u)^n - d$ ($r = s(Y_u/Y_n)^n = 65,49, L^*_u = r - d = 49,4$) [1b]

$L^*/L^*_u = g(Y/Y_u)^n - h$ ($g = r/(r-d) = 1,32, h = d/(r-d) = 0,32$) [1c]

$\log [(L^*/L^*_u + h) / g] = n \log (Y/Y_u)$ [1d]

1 **10** $\ln [(L^*/L^*_u + h) / g] = \ln(10) n \log (Y/Y_u)$ [1e]

$(L^*/L^*_u + h) / g = e^{\ln(10) n \log (Y/Y_u)}$ [1f]

