

$\log(t^*)$

CIELABn5-Dreieckshelligkeit t^*

$Y_{nc} = Y_{W\text{RGB}nc} = 100, 21, 72, 7$

t^*

4 10000

$t^*_{\text{CIELABn5}} = 116(Y/Y_n)^{1/3,0} - 16 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$

$t^*_{N(3,6)} = 23, t^*_{u(18)} = 50, t^*_{W(90)} = 96$

3 1000

$t^*_{90} = 96,01, \gamma = 3,0, 1/\gamma = 1/3,0 = 0,33$

$t^*_{18} = 49,71, S_n = 115,49, D_n = -15,49$

$t^*_{3,6} = 22,55, t^*_n = 49,71, Y_n = 18$

2 100

$\log[t^*/t^*_u] = 0, m_u = 0,43$

$L^*_u = 49, t^*_u = 50$

Anwendungsbereich

1 0,1 1 10 100 $Y_u = 18$ 100 Y
-2 -1 0 1 2 $\log(Y)$
 $Y_N = 3,6$ $Y_W = 90$