

$\log(t^*)$

CIELABu5 triangle lightness t^*

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

t^*

4 10000

$t^*_{\text{CIELABu5}}=66(Y/Y_u)^{1/3,0}-16 \quad (Y_u=18, Y_{nc}/100 < Y \leq Y_{nc})$

$t^*_{N(3,6)}=23, t^*_u(18)=50, t^*_{W(90)}=97$

3 1000

$t^*_{90}=96,50, \gamma=3,0, 1/\gamma=1/3,0=0,33$

$t^*_{18}=50,00, S_n=65,49, D_n=-15,49$

$t^*_{3,6}=22,72, t^*_u=50,00, Y_u=18$

2 100

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

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

application
range

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