

$\log(\Delta Y)$

CIELABu8

Normfarbwertdifferenz

$Y_{nc} = Y_W$ RGB_{nc} = 100, 21, 72, 7

ΔY
2 100
1 10
0 1
-1

$$t^*_{\text{CIELABu8}} = 50 (Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/2,0) \log[2,0(Y_u/49)] + [1 - (1/2,0)] \log(Y)$$

$$t^*_u = 50, dY_u = 4,06, dY_u/Y_u = 0,2257$$

$$\log(dY) = 4,06, m_u = 0,50$$

----- Anwendungs-
bereich

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