

L^* CIELABn3-Normhelligkeit L^*

$$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$$

 L^*

4 10000

$$L^*_{CIELABn3} = 100(Y/Y_n)^{1/2,0} + 1 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{N(3,6)} = 20, L^*_u(18) = 43, L^*_{W(90)} = 95$$

3 1000

$$L^*_{90} = 94,90, \gamma = 2,0, 1/\gamma = 1/2,0 = 0,50$$

$$L^*_{18} = 42,87, S_n = 99,21, D_n = 0,78$$

$$L^*_{3,6} = 19,56, L^*_n = 42,87, Y_n = 18$$

2 100

$$\log[L^*/L^*_{u}] = 0, m_u = 0,49$$

$$L^*_{u} = 49, L^*_{u} = 43$$

Anwendungsbereich

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