

L^* CIELABu2 standard lightness L^*

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

 L^*
4 10000

$$L^*_{CIELABu2} = 59(Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_N(3,6) = 22, L^*_u(18) = 50, L^*_W(90) = 103$$

3 1000

2 100

$$\log[L^*/L^*_u] = 0, m_u = 0,46$$

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

application
range

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