

L^* CIELABu1 standard lightness L^*

$$Y_{nc} = L^* w_{RGBnc} = 100, 52, 87, 31$$

 L^*

150

$$L^*_{CIELABu1} = 66(Y/Y_u)^{1/3,0} - 16 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

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

100

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

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

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

$$L^*_u = 50,00, m_u = 50,24$$

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

application
range

0,1

-1

0

 $Y_N = 3,6$

10

1

 $Y_u = 18$ $Y_W = 90$

100

2

 $\log(Y)$