

$\log(L^*)$

IECsRGBu0 standard lightness L^*

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

L^*

4 10000

$$L^*_{IECsRGBu0} = 50(Y/Y_u)^{1/2,4} \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{N(3,6)} = 26, L^*_u(18) = 50, L^*_{W(90)} = 98$$

3 1000

$$L^*_{90} = 97,77, \gamma = 2,4, 1/\gamma = 1/2,4 = 0,41$$

$$L^*_{18} = 50,00, S_n = 50,00, D_n = -0,00$$

$$L^*_{3,6} = 25,51, L^*_u = 50,00, Y_u = 18$$

2 100

$$\log[L^*/L^*_u] = 0, m_u = 0,41$$

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

application
range

1

0,1

10

Y_u = 18

100

Y

-2

-1

0

Y_N = 3,6

1

Y_W = 90

2

log(Y)