

L^* IECsRGBu1 standard lightness L^*

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

 L^*

150

$$L^*_{IECsRGBu1} = 50 (Y/Y_u)^{1/2,4} \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

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

100

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

$$L^*_{18} = 50,00, S_u = 50,00, D_u = -0,00$$

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

$$L^*_u = 50,00, m_u = 47,94$$

50

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

application
range

0,1

1

10

100

 Y

-2

-1

0

 $Y_N = 3,6$ $Y_W = 90$ $\log(Y)$