

l^*/l_u^* CIELABu4 relative standard lightness l^*/l_u^* $Y_{nc}=Y_{wRGBnc}=100, 21, 72, 7$ l^*/l_u^*

2-100

 $l_{CIELABu4}^* = 37(Y/Y_u)^{1/1,5} + 13 \quad (Y_u=18, Y_{nc}/100 < Y \leq Y_{nc})$ $l_{N(3,6)}^* = 26, l_u^*(18) = 50, l_{W(90)}^* = 121$

1-10

 $l_{90}^*/l_u^* = 2,42, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$ $l_{18}^*/l_u^* = 1,00, S_n = 36,98, D_n = 13,01$ $l_{3,6}^*/l_u^* = 0,51, l_u^* = 50,00, Y_u = 18$

0-1

 $\log[l^*/l_u^*] = 0, m_u = 0,49$ $L_u^* = 49, l_u^* = 50$

application range

0,1

1

10

100

 $Y_u = 18$

Y

-2

-1

 $Y_N = 3,6$

1

 $Y_W = 90$

2

 $\log(Y)$