

l^*/l_u^* CIELABn4 relative standard lightness l^*/l_n^* $Y_{nc}=Y_W \mathbf{R} \mathbf{G} \mathbf{B}_{nc}=100, \mathbf{21}, \mathbf{72}, \mathbf{7}$ l^*/l_u^*

2 100

 $l_{CIELABn4}^* = 87(Y/Y_n)^{1/1,5} + 13 \quad (Y_n=100, Y_{nc}/100 < Y \leq Y_{nc})$ $l_{N(3,6)}^* = 22, l_{u(18)}^* = 41, l_{W(90)}^* = 94$

1 10

 $l_{90}^*/l_u^* = 2,30, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$ $l_{18}^*/l_u^* = 1,00, S_n = 86,98, D_n = 13,01$ $l_{3,6}^*/l_u^* = 0,55, l_n^* = 40,74, Y_n = 18$

0 1

 $\log[l^*/l_u^*] = 0, m_u = 0,45$ $L_u^* = 49, l_u^* = 41$

application range

-1

0,1

1

10

100

 $Y_u = 18$

100

Y

-2

-1

0

 $Y_N = 3,6$

1

 $Y_W = 90$

2

log(Y)