

l^* LABJNDu1 standard lightness l^*

$$Y_{nc} = Y_W \text{RGB}_{nc} = 100, 21, 7$$

 l^*

600

$$l^*_{\text{LABJNDu1}} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$l^*_{\text{LABJNDu1}} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$l^*_{N(3,6)} = 146, l^*_{u(18)} = 332, l^*_{W(90)} = 517$$

400

$$l^*_{u(18)} = 332,22, m_u = 264,66$$

$$L^*_{u(18)} = 49, l^*_{u(18)} = 332$$

200

$$l^*_{90} = 517,21, A_{0n} = 1,5, A_{2n} = 0,1044, c_x = 1,00$$

$$l^*_{18} = 332,22, A_{1n} = 0,017, A_{2n} = 0,0058$$

$$l^*_{3,6} = 146,11, l^*_{u(18)} = 332,22, Y_u = 18$$

application
range

-2

0,1

-1

0

 $x_N = 0,2$

10

1

 $x_W = 5$

100

2

 Y $\log(Y)$