

l^* LABJNDu2 standard lightness l^* $Y_{nc}=Y_{wRGBnc}=100, \text{21, 72, 7}$

4
10000

$$l^*_{LABJNDu2} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$l^*_{LABJNDu2} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$l^*_N(3,6)=261, l^*_u(18)=593, l^*_w(90)=924$$

3
1000
 $\log[l^*/l^*_u]=0, m_u=0,33$

$$L^*_u=49, l^*_u=593$$

2
100
 $l^*_{90}=923,60, A_{0n}=1,0, A_{2u}=0,0876, c_x=0,84$

$$l^*_{18}=593,26, A_{1n}=0,0114, A_{2n}=0,0048$$

$$l^*_{3,6}=260,92, l^*_u=593,26, Y_u=18$$

application
range

1
-2
-1
0
1
10
100
 $x_N=0,2$
 $x_u=1$
 $x_w=5$
 Y
 $\log(Y)$