

$\log(l^*)$

LABJNDu0 standard lightness l^*

$Y_{nc}=Y_{wRGBnc}=100, 21, 72, 7$

l^*

4 10000

$$l^*_{LABJNDu0} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$l^*_{LABJNDu0} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$l^*_{N(3,6)}=219, l^*_u(18)=498, l^*_{w(90)}=776$$

3 1000

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

$$L^*_u=49, l^*_u=498$$

2 100

$$l^*_{90}=775,82, A_{0n}=1,0, A_{2u}=0,1044, c_x=1,00$$

$$l^*_{18}=498,34, A_{1n}=0,007, A_{2n}=0,0058$$

$$l^*_{3,6}=219,17, l^*_u=498,34, Y_u=18$$

application
range

1

0,1

1

10

100

Y

-2

-1

0

1

2

$\log(Y)$