

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

l^*

4 10000

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

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

$$l^*_{N(3,6)} = 174, l^*_u(18) = 396, l^*_w(90) = 616$$

3 1000

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

$$L^*_u = 49, l^*_u = 396$$

2 100

$$l^*_{90} = 615,73, A_{0n} = 1,5, A_{2u} = 0,0876, c_x = 0,84$$

$$l^*_{18} = 395,50, A_{1n} = 0,0044, A_{2n} = 0,0048$$

$$l^*_{3,6} = 173,94, l^*_u = 395,50, Y_u = 18$$

application
range

1

0,1

1

10

100

Y

-2

-1

0

1

2

$\log(Y)$