

$\log(l^*/l_u^*)$

LABJNDu0 relative standard lightness l^*/l_u^*

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

l^*/l_u^*

2 100

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

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

$l_N^*(3,6)=146, l_u^*(18)=332, l_w^*(90)=517$

1 10

0 1

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

$L_u^*=49, l_u^*=332$

application
range

0,1

1

10

100

Y

-1

0

1

2

$\log(Y)$