

$\log [(Y/\Delta Y) / (Y_u/\Delta Y_u)]$ relative CIE tristimulus

$\log(S_r)$ $S_r/S_{ru}=(Y/\Delta Y)/(Y_u/\Delta Y_u)$ value Y sensitivity

3 1000

relative tristimulus value sensitivity of CIELAB

$$\log[(Y/\Delta Y)/(Y_u/\Delta Y_u)] = \log(Y/Y_u)^{1/3}$$

$$L^*_u=50, Y_u=18, dY_u=0,83$$

2 100

$$L^*_u=50, Y_u=18, dY_u=0,83, Y_u/dY_u=21$$

$$\log[(Y/dY)/(Y_u/dY_u)]=0, m_u=0,33$$

1 10

0

-2

0,1

-1

1

0

10

1

$Y_u=18$ 100 Y

2

2

$\log(Y)$

application range