

$\log(Y/\Delta Y)$

$\log(S_r) \quad S_r = (Y/\Delta Y)$

CIE tristimulus
value Y sensitivity

2-100

tristimulus value sensitivity according to CIELAB

$$\begin{aligned}\log(Y/dY) &= \log[(1/3)(116/Y_n)] + (1/3)\log(Y/Y_n) \\ &= \log[(1/3)(116/(Y_n^{1/3}))] + (1/3)\log(Y)\end{aligned}$$

1-10

0-1

$$L^*_u=50, Y_u=18, dY_u=0.83, Y_u/dY_u=21$$

$$\log(Y/dY)=1.33, m_u=0.33$$

application
range

