

$\log \left[\frac{(Y/\Delta Y)}{(Y_u/\Delta Y_u)} \right]$ relative CIE tristimulus
 $\log(S_r)$ $S_r/S_{ru} = (Y/\Delta Y)/(Y_u/\Delta Y_u)$ value Y sensitivity

2-100 $L^* = (t/a) \ln (1 + a \cdot Y)$ $a=0.3411$ $t/a=258.6$

relative tristimulus value sensitivity

$$\log \left[\frac{(Y/dY)}{(Y_u/dY_u)} \right] = \log \left[\frac{(t \cdot Y)}{(1 + a \cdot Y)} \right] - \log \left[\frac{(t \cdot Y_u)}{(1 + a \cdot Y_u)} \right]$$

1-10

$$Y_u=18, dY_u=0.08, Y_u/dY_u=222$$

$$\log \left[\frac{(Y/dY)}{(Y_u/dY_u)} \right] = 0, m_u=0.13$$

