

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

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

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

1-10

$$\log[(Y/dY)/(Y_u/dY_u)]=0, m_u=0.33$$

application range

0

0,1
-1

1
0

10
1

Y_u=18 100 Y

-2 2

WE160-8A_1