

$\log [(Y/\Delta Y) / (Y_u/\Delta Y_u)]$

relative CIELAB-

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

3-1000

$$L^*_{\text{CIELAB}} = 116 (Y/Y_n)^{1/3} - 16$$

relative CIELAB-tristimulus value contrast

2-100

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

$$L^*_{u}=50, Y_u=18, dY_u=0,83$$

$$L^*_{u}=50, Y_u=18, dY_u=0,83, Y_u/dY_u=21$$

1-10

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

application range

0

0,1
-1

1
0

$Y_N=4$

10
1

$Y_u=18$
100

y
2