

$\log(\Delta Y/Y)$

CIELABn4

tristimulus value sensitivity

$Y_{nc} = Y_{WRGBnc} = 100, 21, 72, 7$

$S_r = (\Delta Y/Y)$

2-100

$$l^*_{CIELABn4} = 87(Y/Y_n)^{1/1,5} + 13 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\begin{aligned} \log(dY/Y) &= \log[1,5(Y_u/86)] - (1/1,5) \log(Y/Y_u) \\ &= (1/1,5) \log[1,5(Y_u/86)] - (1/1,5) \log(Y) \end{aligned}$$

1-10

$$\log(dY/Y) = -0,52, m_u = -0,66$$

$$l^*_u = 41, dY_u = 5,40, dY_u/Y_u = 0,3005$$

application range

0-1

$$(dY/Y)_{90} = 0,1027, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$$

$$(dY/Y)_{18} = 0,3005, S_n = 86,98, D_n = 15,01$$

$$(dY/Y)_{3,6} = 0,8768, Y_n = 100, dY_n = 5,40$$

0,1

1

10

100

$Y_u = 18$

100

$Y$

-1

0

$Y_N = 3,6$

1

10

$Y_W = 90$

2

$\log(Y)$