

$\log(\Delta Y/Y)$

CIELABn2

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

2 100

$l^*_{CIELABn2} = 109(Y/Y_n)^{1/2,5} - 9 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/Y) = \log[2,5(Y_u/108)] - (1/2,5) \log(Y/Y_u)$

$= (1/2,5) \log[2,5(Y_u/108)] - (1/2,5) \log(Y)$

1 10

$\log(dY/Y) = -0,59, m_u = -0,39$

$l^*_u = 46, dY_u = 4,57, dY_u/Y_u = 0,2543$

application
range

0 1

$(dY/Y)_{90} = 0,1336, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$

$(dY/Y)_{18} = 0,2543, S_n = 108,42, D_n = 8,42$

$(dY/Y)_{3,6} = 0,4830, Y_n = 100, dY_n = 4,57$

0,1

1

10

100

$Y_u = 18$

$Y_w = 90$

Y

-1

0

1

2

$\log(Y)$

$Y_N = 3,6$

$Y_W = 90$