

$\log(\Delta Y/Y)$

CIE LABu2

tristimulus value sensitivity

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$S_r = (\Delta Y/Y)$

2-100

$$L^*_{CIE LABu2} = 59(Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY/Y) = \log[2,5(Y_u/58)] - (1/2,5) \log(Y/Y_u)$$

$$= (1/2,5) \log[2,5(Y_u/58)] - (1/2,5) \log(Y)$$

1-10

$$\log(dY/Y) = -0,62, m_u = -0,39$$

$$L^*_u = 50, dY_u = 4,27, dY_u/Y_u = 0,2377$$

application range

0-1

$$(dY/Y)_{90} = 0,1248, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$$

$$(dY/Y)_{18} = 0,2377, S_n = 58,42, D_n = -8,42$$

$$(dY/Y)_{3,6} = 0,4515, Y_u = 18, dY_u = 4,27$$

0,1

1

10

100

$Y_u = 18$

100

Y

-1

-2

-1

0

$Y_N = 3,6$

1

1

$Y_w = 90$

2

100

$\log(Y)$