

$\log(\Delta Y)$

IECsRGBu4

tristimulus value difference

$$Y_{nc} = L^* W_{RGBnc} = 100, 52, 87, 31$$

$$L^*_{IECsRGBu4} = 50 (Y/Y_u)^{1/1,2} \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/1,2) \log[1,2(Y_u/50)] + [1 - (1/1,2)] \log(Y)$$

ΔY

2 100

1 10

0 1

-1

$$L^*_u = 50, dY_u = 2,40, dY_u/Y_u = 0,1333$$

$$\log(dY) = 2,40, m_u = 0,1333$$

$$dY_{90} = 3,13, \gamma = 1,2, 1/\gamma = 1/1,2 = 0,83$$

$$dY_{18} = 2,40, S_n = 50,00, D_n = -0,00$$

$$dY_{3,6} = 1,83, Y_u = 18, dY_u = 2,40$$

application range

0,1

1

10

100

$Y_u = 18$

100

Y

-2

-1

0

$Y_N = 3,6$

1

10

100

$Y_W = 90$

2

$\log(Y)$