

$\log(\Delta Y)$

IECsRGBu0

tristimulus value difference

$$Y_{nc} = L^* \mathbf{w} \mathbf{RGB}_{nc} = 100, 52, 87, 31$$

$$L^*_{IECsRGBu0} = 50 (Y/Y_u)^{1/2,4} \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/2,4) \log[2,4(Y_u/50)] + [1 - (1/2,4)] \log(Y)$$

ΔY

2 100

1 10

0 1

$$L^*_u = 50, dY_u = 4,80, dY_u/Y_u = 0,2666$$

$$\log(dY) = 4,80, m_u = 0,58$$

$$dY_{90} = 12,27, \gamma = 2,4, 1/\gamma = 1/2,4 = 0,4$$

$$dY_{18} = 4,80, S_n = 50,00, D_n = -0,00$$

$$dY_{3,6} = 1,87, Y_u = 18, dY_u = 4,80$$

application
range

0,1

1

10

$Y_u = 18$

100

Y

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$