

$\log(\Delta Y)$

IECsRGBu3

tristimulus value difference

$Y_{nc} = Y_W$ RGB $_{nc} = 100, 21, 72, 7$

ΔY

2 100

$$l^*_{IECsRGBu3} = 50 (Y/Y_u)^{1/1,6} \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/1,6) \log[1,6(Y_u/50)] + [1 - (1/1,6)] \log(Y)$$

1 10

$$l^*_u = 50, dY_u = 3,20, dY_u/Y_u = 0,1777$$

$$\log(dY) = 3,20, m_u = 0,37$$

0 1

$$dY_{90} = 5,85, \gamma = 1,6, 1/\gamma = 1/1,6 = 0,62$$

$$dY_{18} = 3,20, S_n = 50,00, D_n = -0,00$$

$$dY_{3,6} = 1,74, Y_u = 18, dY_u = 3,20$$

application range

0,1

1

10

100

$Y_u = 18$

100

Y

-2

-1

0

$Y_N = 3,6$

1

10

$Y_W = 90$

2

$\log(Y)$