

$\log(\Delta Y)$

IECsRGBu4

tristimulus value difference

$$Y_{nc} = L^* \mathbf{w}_{RGB} \mathbf{B}_{nc} = 100, \text{red}, \text{green}, \text{blue}$$

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

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

2 100

ΔY

1 10

0 1

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

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

application
range

0,1

1

10

$Y_u = 18$

100

Y

-1

-1

0

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$