

$\log(\Delta Y)$

IECsRGBu0

tristimulus value difference

$$Y_{nc} = L^* \cdot W_{RGB} = 100, 52, 87, 31$$

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

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

2
1
0
-1

100
10
1
0,1

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

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

application
range

0,1

1

10

100

$Y_u = 18$

$Y_W = 90$

100

2

Y

$Y_N = 3,6$

1

2

$\log(Y)$