

$\log(\Delta Y/\Delta Y_u)$

IECsRGBu4 relative  
tristimulus value difference

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

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

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

2  
100

$$dY_{90}/dY_u = 1,30, \gamma = 1,2, 1/\gamma = 1/1,2 = 0,83$$

$$dY_{18}/dY_u = 1,00, S_n = 50,00, D_n = -0,00$$

$$dY_{3,6}/dY_u = 0,76, Y_u = 18, dY_u = 2,40$$

1  
10

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

$$\log[(dY)/(dY)_u] = 0, \dots, 10$$

application  
range

0  
1

0,1

1

10

100

$Y_u = 18$

100

$Y$

-1

-2

-1

0

$Y_N = 3,6$

1

10

100

$Y_W = 90$

2

$\log(Y)$