

$\log(\Delta Y)$

IECsRGBu2

tristimulus value difference

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

$$L^*_{IECsRGBu2} = 50 (Y/Y_u)^{1/2,0} \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/2, 0) \log[2, 0(Y_u/50)] + [1 - (1/2, 0)] \log(Y)$$

$\Delta Y$

2 100

1 10

0 1

$$L^*_u = 50, dY_u = 4,00, dY_u/Y_u = 0,2222$$

$$\log(dY) = 4,00, m_u = 0,50$$

application  
range

0,1

1

10

100

$Y_u = 18$

$Y_W = 90$

$Y$

-1

0

1

2

$\log(Y)$