

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

relative IECsRGB-
tristimulus value difference

$\Delta Y/\Delta Y_u$

2 100

$$L^*_{IECsRGB} = 100 (Y/Y_n)^{1/2,4}$$

relative IECsRGB-tristimulus value difference

1 10

$$\begin{aligned} \log(dY) &= \log(2,4 (Y_n/100)) + (1-(1/2,4)) \log(Y/Y_n) \\ &= \log(2,4(Y_n^{1/2,4})/100) + (1-(1/2,4)) \log(Y) \end{aligned}$$

0 1

$$Y_u=18, dY_u=0,90, dY_u/Y_u=0,0480$$

$$\log[(dY)/(dY_u)]=0, m_u=0,58$$

application
range

-1

0,1

0

$Y_N=4$

10

$Y_u=18$

100

Y

-2

-1

0

1

2

$\log(Y)$