

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

IECsRGBu4 relative
tristimulus value difference

$Y_{nc} = Y_W$ RGB $_{nc} = 100, 21, 72, 7$

$\Delta Y/\Delta Y_u$

2 100

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

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

1 10

0 1 $l^*_u = 50, dY_u = 2,40, dY_u/Y_u = 0,1333$

$\log[(dY)/(dY)_u] = 0,1333 \log(Y/Y_u)$

application
range

0,1 1

10 18 100 $Y_u = 18$

-1 -2 -1 0 1 10 100 Y
 $Y_N = 3,6$ 1 $Y_W = 90$ 2 $\log(Y)$