

$\log(Y/\Delta Y)$

CIELABu4

tristimulus value contrast

$Y_{nc} = Y_{WRGBnc} = 100, 21, 72, 7$

$C_r = (Y/\Delta Y)$

2 100

$l^*_{CIELABu4} = 37(Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(Y/dY) = -\log[1,5(Y_u/36)] + (1/1,5) \log(Y/Y_u)$

$= -(1/1,5) \log[1,5(Y_u/36)] + (1/1,5) \log(Y)$

1 10

$l^*_u = 50, dY_u = 4,05, Y_u/dY_u = 4$

$\log(Y/dY) = 0,64, m_u = 0,66$

0 1

application range

-1 0 1 10 100 $Y_u = 18$ 100 Y

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