

$\log(\Delta Y)$

CIELABu5

tristimulus value difference

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

$$T^*_{CIELABu5} = 66(Y/Y_u)^{1/3,0} - 16 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/3,0) \log[3,0(Y_u/65)] + [1 - (1/3,0)] \log(Y)$$

2
100
1
10
0
1

$$T^*_u = 50, dY_u = 4,58, dY_u/Y_u = 0,2544$$

$$\log(dY) = 4,58, m_u = 0,66$$

-1
-2
0,1
-1
0
1
10
1
100
2
Y
log(Y)
 $Y_N = 3,6$
 $Y_u = 18$
 $Y_W = 90$

application
range