

$\log(\Delta Y)$

CIELABu8

tristimulus value difference

$$Y_{nc} = L^* W_{RGB} B_{nc} = 100, 52, 87, 31$$

$$T^*_{CIELABu8} = 50 (Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/2,0) \log[2,0(Y_u/49)] + [1 - (1/2,0)] \log(Y)$$

ΔY

2 100

1 10

0 1

-1

0,1

1

10

100

Y

-2

-1

0

$Y_N = 3,6$

$Y_W = 90$

2

$\log(Y)$

$$T^*_u = 50, dY_u = 4,06, dY_u/Y_u = 0,2257$$

$$\log(dY) = 4,06, m_u = 0,50$$

application
range