log(ΔY)

CIELABu7
tristimulus value difference
$Y_{nc} = Y_{W, R, G, B, nc} = 100, 21, 72, 7$

ΔY

2•100

$t^*_{CIELABu7} = 59\,(Y/Y_u)^{1/2,5} - 9$ $(Y_u = 18,\ Y_{nc}/100 < Y <= Y_{nc})$
$\log(dY) = (1/2,5)\log[2,5(Y_u/58)] + [1-(1/2,5)]\log(Y)$

1•10

$t^* = 50,\ dY_u = 4,27,\ dY_u/Y_u = 0,2377$

$\log(dY) = 4,27,\ m_u = 0,59$

0•1

application
range

-1

0,1   10 $Y_u = 18$ 100 Y

$Y_N = 3,6$ 1 $Y_W = 90$

-2   0   1   2   log(Y)

BEY70–3A