log ($\Delta Y/Y$)

**CIELABn3**

**tristimulus value sensitivity**

$S_r = (\Delta Y/Y)$      $Y_{nc} = L^* W_{R} B_{nc} = 100, 52, 8\%, 31$

$L^*_{CIELABn3} = 100 (Y/Y_u)^{1/2,0} + 1$   ($Y_n = 100, Y_{nc}/100 <= Y <= Y_{nc}$)

$\log(dY/Y) = \log[2,0(Y_u/99)] - (1/2,0) \log(Y/Y_u)$

     $= (1/2,0) \log[2,0(Y_u/99)] - (1/2,0) \log(Y)$

$\log(dY/Y) = -0,57, \ m_u = -0,50$

**application range**

$L^*_{u} = 43, \ dY_u = 4,75, \ dY_u/Y_u = 0,2639$

$(dY/Y)_{90} = 0,1180, \ \gamma = 2,0, \ 1/\gamma = 1/2,0 = 0,50$

$(dY/Y)_{18} = 0,2639, \ S_n = 99,21, \ D_n = 0,78$

$(dY/Y)_{3,6} = 0,5888, \ Y_w = 100, \ dY_u = 4,75$

$Y_u = 18$

$Y_N = 3,6 \mid Y_W = 90$

0,1   1   10   100   $Y$

log($Y$)

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