log [(Y/ΔY) / (Y/ΔY)_u]

CIELABu0 relative
tistimulus value contrast
$C_r/C_{ru}=(Y/\Delta Y)/(Y/\Delta Y)_u$ $y_{nc}=y_W, y_R, y_B, y_{nc}=100, 21, 12, 7$

$l^*_{CIELABu0}=66(Y/Y_u)^{1/3,0}-16$ $(Y_u=18, Y_{nc}/100<Y<=Y_{nc})$

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

$\log[(Y/dY)/(Y/dY)_u]=0, m_u=0,33$

$l^*_u=50, dY_u=4,58, Y_u/dY_u)$

application
range

$Y_N=3,6$ $Y_W=902$

0,1   1   10   100 Y

−2   −1   0   1   2   log(Y)

BEY00−8A