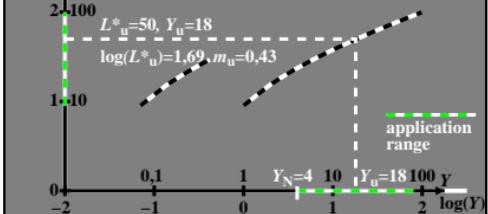


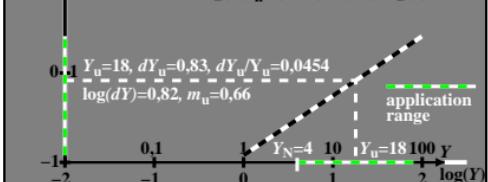
$\log(L^*)$ CIELAB lightness
with $Y_u=90/5=18$, $Y_u=90/5=18$

$\log(L^*)/L^*$ CIELAB lightness for all colours with $L^*=50$:
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
($s=66$, $Y_u=18$, $1/255 < Y < 7$)



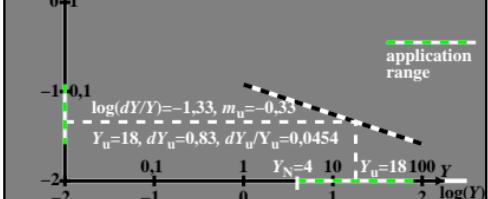
BEU90-1A

$\log(\Delta Y)$ CIELAB-tristimulus value difference
 $\log(\Delta Y)/\Delta Y$ (s=66, $Y_u=18$, $1/255 < Y < 7$)
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
CIELAB-tristimulus value difference
 $\log(dY) = \log(3(Y_u/116)) + (2/3)\log(Y/Y_u)$
 $= \log(3(Y_u^{1/3}/116)) + (2/3)\log(Y)$



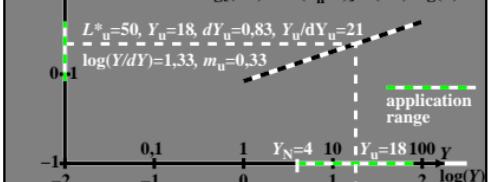
BEU90-3A

$\log(\Delta Y/Y)$ CIELAB-tristimulus value sensitivity
 $\log(C_r)$ $C_r = (\Delta Y/Y)$ (s=66, $Y_u=18$, $1/255 < Y < 7$)
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
CIELAB-tristimulus value sensitivity
 $\log((dY/Y)) = \log(3(Y_u^{1/3}/116)) - (1/3)\log(Y)$



BEU90-5A

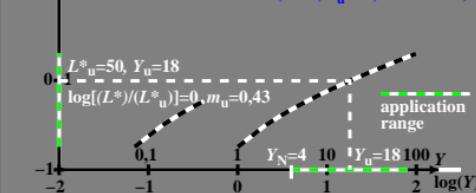
$\log(Y/\Delta Y)$ CIELAB-tristimulus value contrast
 $\log(S_r)$ $S_r = (Y/\Delta Y)$ (s=66, $Y_u=18$, $1/255 < Y < 7$)
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
CIELAB-tristimulus value contrast
 $\log(Y/dY) = \log[(1/3)(116/Y_u)] + (1/3)\log(Y/Y_u)$
 $= \log[(1/3)116(Y_u^{-1/3})] + (1/3)\log(Y)$



BEU90-7A

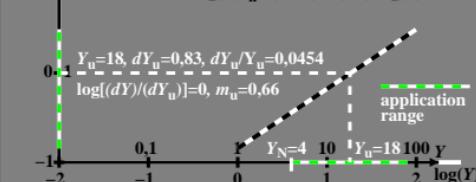
$\log(L^*/L^*_{u_0})$ relative CIELAB lightness
with $Y_u=90/5=18$, $Y_u=90/5=18$

$L^*/L^*_{u_0}$ relative normalized CIELAB data
CIELAB lightness for all colours with $L^*_{u_0}=18$:
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
($s=66$, $Y_u=18$, $1/255 < Y < 7$)



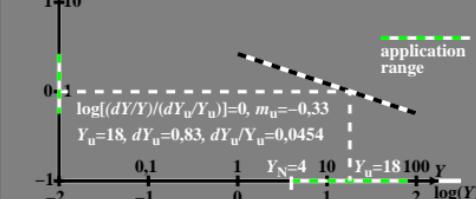
BEU90-2A

$\log(\Delta Y/\Delta Y_u)$ relative CIELAB-tristimulus value difference
 $\Delta Y/\Delta Y_u$ (s=66, $Y_u=18$, $1/255 < Y < 7$)
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
relative CIELAB-tristimulus value difference
 $\log(dY) = \log(3(Y_u/116)) + (2/3)\log(Y/Y_u)$
 $= \log(3(Y_u^{1/3}/116)) + (2/3)\log(Y)$



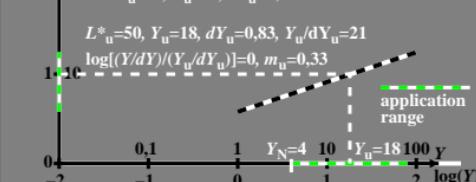
BEU90-4A

$\log[(\Delta Y/Y) / (\Delta Y_u/Y_u)]$ relative CIELAB-tristimulus value sensitivity
 $C_r/C_{ru} = (\Delta Y/Y) / (\Delta Y_u/Y_u)$ (s=66, $Y_u=18$, $1/255 < Y < 7$)
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
relative CIELAB-tristimulus value sensitivity
 $\log((dY/Y)/(dY_u/Y_u)) = \log((Y/Y_u)^{-1/3})$



BEU90-6A

$\log[(Y/\Delta Y) / (Y_u/\Delta Y_u)]$ relative CIELAB-tristimulus value contrast
 $\log(S_r/S_{ru})$ $S_r/S_{ru} = (Y/\Delta Y) / (Y_u/\Delta Y_u)$ (s=66, $Y_u=18$, $1/255 < Y < 7$)
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
relative CIELAB-tristimulus value contrast
 $\log((Y/dY)/(Y_u/dY_u)) = \log((Y/Y_u)^{1/3})$



BEU90-8A