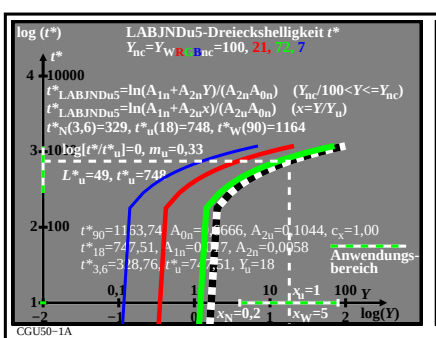
log (t*)
LABJNDu5-Dreieckshelligkeit t*
Ync=YWRGBnc=100, 21, 72, 7
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
t*LABJNDu5=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
t*N(3,6)=329, t*u(18)=748, t*W(90)=1164
log[t*/t*u]=0, mu=0,33
L*u=49, t*u=748
t*90=1163,74, A0n=0,6666, A2u=0,1044, cx=1,00
t*18=747,51, A1n=0,017, A2n=0,0058
t*3,6=328,76, t*u=747,51, Yu=18
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−1A
log (t*/t*u)
LABJNDu5 relative Dreieckshelligkeit t*/t*u
Ync=YWRGBnc=100, 21, 72, 7
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
t*LABJNDu5=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
t*N(3,6)=329, t*u(18)=748, t*W(90)=1164
t*90/t*u=1,55, A0n=0,6666, A2u=0,1044, cx=1,00
t*18/t*u=1,00, A1n=0,017, A2n=0,0058
t*3,6/t*u=0,43, t*u=747,51, Yu=18
log[t*/t*u]=0, mu=0,33
L*u=49, t*u=748
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−2A
log(ΔY)
LABJNDu5
Normfarbwertdifferenz
Ync=YWRGBnc=100, 21, 72, 7
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
dY=A0n(A1n+A2nY)=A0n(A1n+A2ux), siehe CIE 230:2019
dY90=0,35, A0n=0,6666, A2u=0,1044, cx=1,00
dY18=0,08, A1n=0,017, A2n=0,0058
dY3,6=0,02, Yu=18, dYu=0,08
t*u=748, dYu=0,08, dYu/Yu=0,0044
log(dY)=0,08, mu=0,05
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−3A
log(ΔY/ΔYu)
LABJNDu5 relative
Normfarbwertdifferenz
Ync=YWRGBnc=100, 21, 72, 7
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
t*LABJNDu5=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
dY/dYu=(A1n+A2nx)/(A1n+A2u)
dY90/dYu=4,43, A0n=0,6666, A2u=0,1044, cx=1,00
dY18/dYu=1,00, A1n=0,017, A2n=0,0058
dY3,6/dYu=0,31, Yu=18, dYu=0,08
t*u=748, dYu=0,08, dYu/Yu=0,0044
log[(dY)/(dYu)]=0, mu=0,36
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−4A
log (ΔY/Y)
LABJNDu5
Normfarbwertempfindlichkeit
Ync=YWRGBnc=100, 21, 72, 7
Sr=(ΔY/Y)
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
t*LABJNDu5=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
dY/Y=A0n(A1n+A2nY)/Y=A0n(A1n+A2ux)/Y
(dY/Y)90=0,0039, A0n=0,6666, A2u=0,1044, cx=1,00
(dY/Y)18=0,0044, A1n=0,017, A2n=0,0058
(dY/Y)3,6=0,0076, Yu=18, dYu=0,08
log(dY/Y)=−2,34, mu=−0,13
t*u=748, dYu=0,08, dYu/Yu=0,0044
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−5A
log [(ΔY/Y) / (ΔY/Y)u]
LABJNDu5 relative
Normfarbwertempfindlichkeit
Ync=YWRGBnc=100, 21, 72, 7
Sr/Sru=(ΔY/Y)/(ΔY/Y)u
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
t*LABJNDu5=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
(dY/Y)/(dY/Y)u=[(A1n+A2ux)/xu]/(A1n+A2u)
(dY/Y)90/(dY/Y)u=0,88, A0n=0,6666, A2u=0,1044, cx=1,00
(dY/Y)18/(dY/Y)u=1,00, A1n=0,017, A2n=0,0058
(dY/Y)3,6/(dY/Y)u=1,95, Yu=18, dYu=0,08
log[(dY/Y)/(dY/Y)u]=0, mu=−0,13
t*u=748, dYu=0,08, dYu/Yu=0,0044
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−6A
log (Y/ΔY)
LABJNDu5
Normfarbwertkontrast
Ync=YWRGBnc=100, 21, 72, 7
Cr=(Y/ΔY)
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
t*LABJNDu5=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
Y/dY=Y/[A0n(A1n+A2nY)]=xYu/[A0n(A1n+A2ux)]
t*u=748, dYu=0,08, Yu/dYu=222
log(Y/dY)=2,34, mu=0,13
(Y/dY)90=250,46, A0n=0,6666, A2u=0,1044, cx=1,00
(Y/dY)18=222,40, A1n=0,017, A2n=0,0058
(Y/dY)3,6=142,55, Yu=18, dYu=0,08
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−7A
log [(Y/ΔY) / (Y/ΔY)u]
LABJNDu5 relativer
Normfarbwertkontrast
Ync=YWRGBnc=100, 21, 72, 7
Cr/Cru=(Y/ΔY)/(Y/ΔY)u
t*LABJNDu5=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
t*LABJNDu5=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
(Y/dY)/(Y/dY)u=[x/(A1n+A2ux)]/(A1n+A2u)
(Y/dY)90/(Y/dY)u=1,12, A0n=0,6666, A2u=0,1044, cx=1,00
(Y/dY)18/(Y/dY)u=1,00, A1n=0,017, A2n=0,0058
(Y/dY)3,6/(Y/dY)u=0,64, Yu=18, dYu=0,08
log[(Y/dY)/(Y/dY)u]=0, mu=0,13
t*u=748, dYu=0,08, Yu/dYu=222
Anwendungs-bereich
xN=0,2
xW=5
log(Y)
CGU50−8A
CGU50−7N