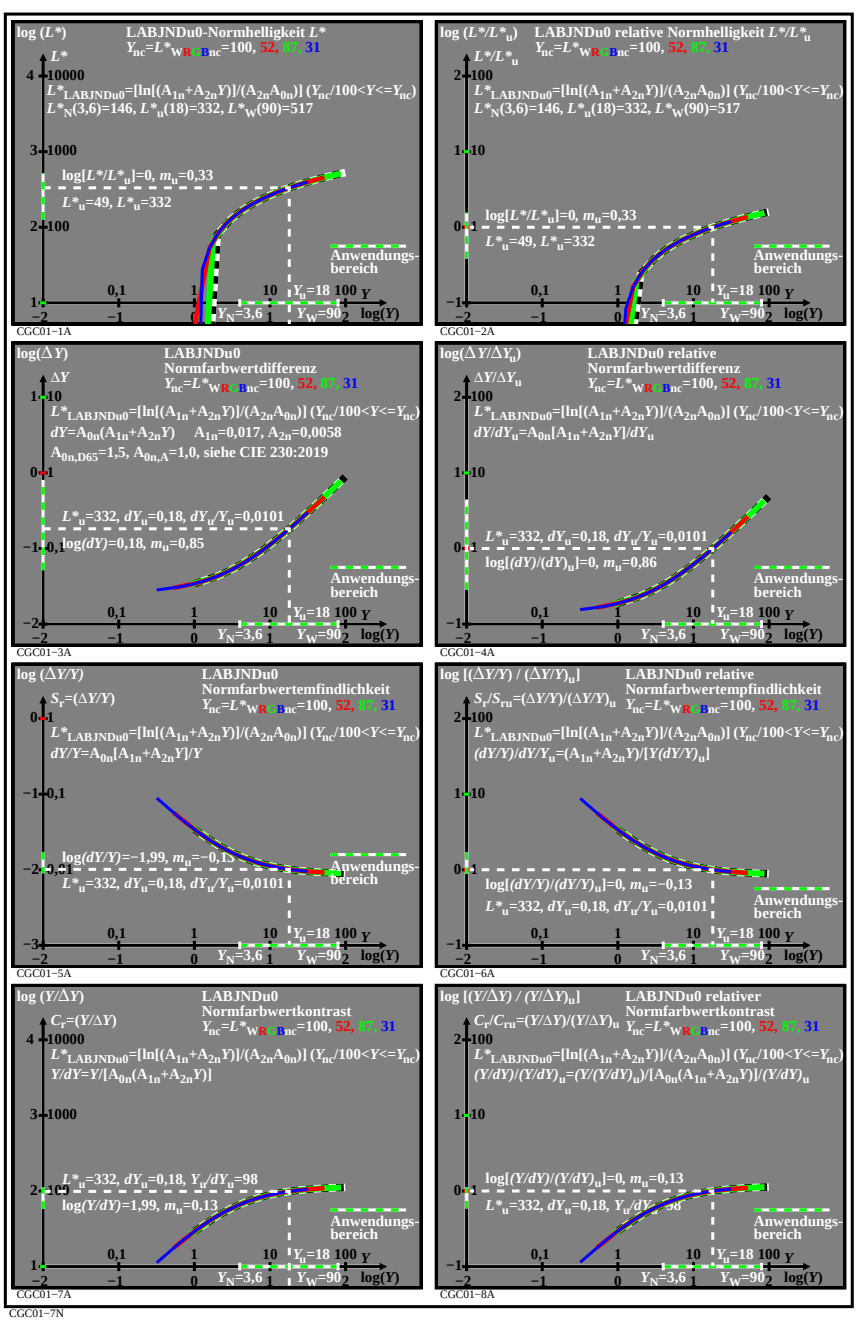
log (L*)
LABJNDu0-Normhelligkeit L*
Ync=L*WRGBnc=100, 52, 87, 31
L*
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
L*N(3,6)=146, L*u(18)=332, L*W(90)=517
log[L*/L*u]=0, mu=0,33
L*u=49, L*u=332
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-1A
log (L*/L*u)
LABJNDu0 relative Normhelligkeit L*/L*u
Ync=L*WRGBnc=100, 52, 87, 31
L*/L*u
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
L*N(3,6)=146, L*u(18)=332, L*W(90)=517
log[L*/L*u]=0, mu=0,33
L*u=49, L*u=332
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-2A
log(ΔY)
LABJNDu0
Normfarbwertdifferenz
Ync=L*WRGBnc=100, 52, 87, 31
ΔY
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
dY=A0n(A1n+A2n Y) A1n=0,017, A2n=0,0058
A0n,D65=1,5, A0n,A=1,0, siehe CIE 230:2019
L*u=332, dYu=0,18, dYu/Yu=0,0101
log(dY)=0,18, mu=0,85
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-3A
log(ΔY/ΔYu)
LABJNDu0 relative
Normfarbwertdifferenz
Ync=L*WRGBnc=100, 52, 87, 31
ΔY/ΔYu
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
dY/dYu=A0n[A1n+A2n Y]/dYu
L*u=332, dYu=0,18, dYu/Yu=0,0101
log[(dY)/(dY)u]=0, mu=0,86
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-4A
log (ΔY/Y)
LABJNDu0
Normfarbwertemfindlichkeit
Ync=L*WRGBnc=100, 52, 87, 31
Sr=(ΔY/Y)
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
dY/Y=A0n[A1n+A2n Y]/Y
log(dY/Y)=−1,99, mu=−0,13
L*u=332, dYu=0,18, dYu/Yu=0,0101
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-5A
log [(ΔY/Y) / (ΔY/Y)u]
LABJNDu0 relative
Normfarbwertempfindlichkeit
Ync=L*WRGBnc=100, 52, 87, 31
Sr/Sru=(ΔY/Y)/(ΔY/Y)u
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
(dY/Y)/dY/Yu=(A1n+A2n Y)/[Y(dY/Y)u]
log[(dY/Y)/(dY/Y)u]=0, mu=−0,13
L*u=332, dYu=0,18, dYu/Yu=0,0101
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-6A
log (Y/ΔY)
LABJNDu0
Normfarbwertkontrast
Ync=L*WRGBnc=100, 52, 87, 31
Cr=(Y/ΔY)
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
Y/dY=Y/[A0n(A1n+A2n Y)]
L*u=332, dYu=0,18, Yu/dYu=98
log(Y/dY)=1,99, mu=0,13
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-7A
log [(Y/ΔY) / (Y/ΔY)u]
LABJNDu0 relativer
Normfarbwertkontrast
Ync=L*WRGBnc=100, 52, 87, 31
Cr/Cru=(Y/ΔY)/(Y/ΔY)u
L*LABJNDu0=[ln[(A1n+A2n Y)]/(A2n A0n)] (Ync/100<Y<=Ync)
(Y/dY)/(Y/dY)u=(Y/(Y/dY)u)/[A0n(A1n+A2n Y)]/(Y/dY)u
log[(Y/dY)/(Y/dY)u]=0, mu=0,13
L*u=332, dYu=0,18, Yu/dYu=98
Anwendungs-bereich
Yu=18 100 Y
YN=3,6 1 YW=90 2 log(Y)
CGC01-8A
CGC01−7N