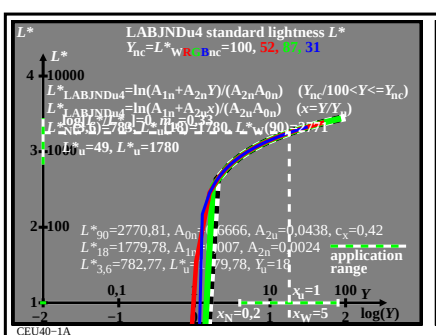
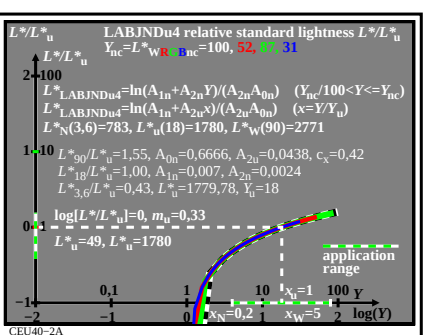
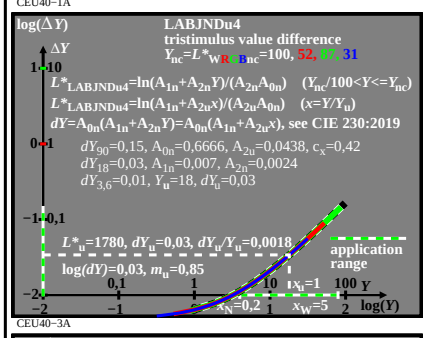
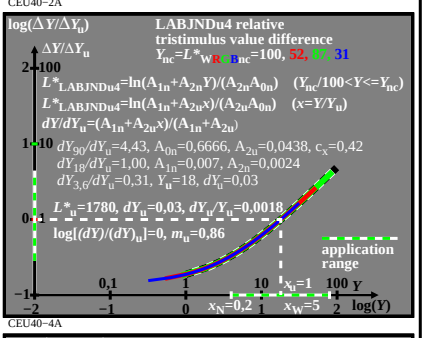
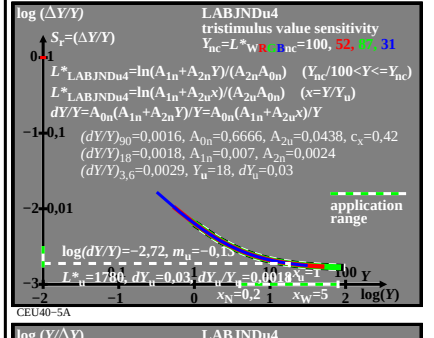
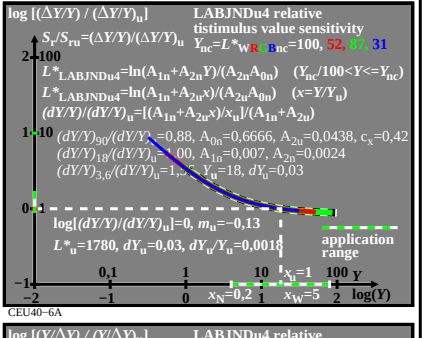

L*
LABJNDu4 standard lightness L*
Ync=L*wR Bnc=100, 52, 87, 31
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=ln(A1n+A2nx)/(A2uA0n) (x=Y/Yu)
log[L*/L*u]=0, mu=0,33
L*N(3,6)=783, L*u(18)=1780, L*w(90)=2771
L*u=49, L*u=1780
L*90=2770,81, A0n=0,6666, A2u=0,0438, cx=0,42
L*18=1779,78, A1n=0,007, A2n=0,0024
L*3,6=782,77, L*u=1779,78, Yu=18
application range
xN=0,2
xw=5
log(Y)
CEU40–1A

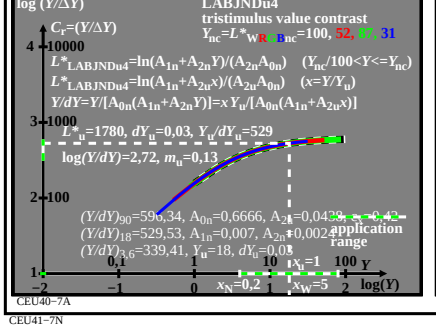

L*/L*u
LABJNDu4 relative standard lightness L*/L*u
Ync=L*wR Bnc=100, 52, 87, 31
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=ln(A1n+A2nx)/(A2uA0n) (x=Y/Yu)
L*N(3,6)=783, L*u(18)=1780, L*w(90)=2771
L*90/L*u=1,55, A0n=0,6666, A2u=0,0438, cx=0,42
L*18/L*u=1,00, A1n=0,007, A2n=0,0024
L*3,6/L*u=0,43, L*u=1779,78, Yu=18
log[L*/L*u]=0, mu=0,33
L*u=49, L*u=1780
application range
xN=0,2
xw=5
log(Y)
CEU40–2A

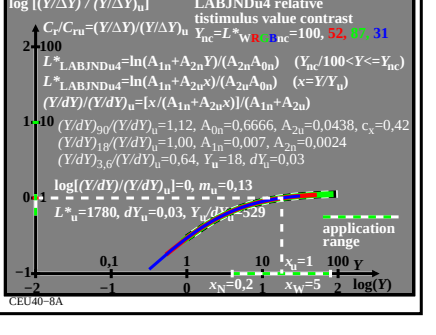

log(ΔY)
LABJNDu4 tristimulus value difference
Ync=L*wR Bnc=100, 52, 87, 31
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
dY=A0n(A1n+A2nY)=A0n(A1n+A2ux), see CIE 230:2019
dY90=0,15, A0n=0,6666, A2u=0,0438, cx=0,42
dY18=0,03, A1n=0,007, A2n=0,0024
dY3,6=0,01, Yu=18, dYu=0,03
L*u=1780, dYu=0,03, dYu/Yu=0,0018
log(dY)=0,03, mu=0,85
application range
xN=0,2
xw=5
log(Y)
CEU40–3A


log(ΔY/ΔYu)
LABJNDu4 relative tristimulus value difference
Ync=L*wR Bnc=100, 52, 87, 31
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
dY/dYu=(A1n+A2ux)/(A1n+A2u)
dY90/dYu=4,43, A0n=0,6666, A2u=0,0438, cx=0,42
dY18/dYu=1,00, A1n=0,007, A2n=0,0024
dY3,6/dYu=0,31, Yu=18, dYu=0,03
L*u=1780, dYu=0,03, dYu/Yu=0,0018
log[(dY)/(dY)u]=0, mu=0,86
application range
xN=0,2
xw=5
log(Y)
CEU40–4A


log (ΔY/Y)
LABJNDu4 tristimulus value sensitivity
Ync=L*wR Bnc=100, 52, 87, 31
Sr=(ΔY/Y)
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
dY/Y=A0n(A1n+A2nY)/Y=A0n(A1n+A2ux)/Y
(dY/Y)90=0,0016, A0n=0,6666, A2u=0,0438, cx=0,42
(dY/Y)18=0,0018, A1n=0,007, A2n=0,0024
(dY/Y)3,6=0,0029, Yu=18, dYu=0,03
log(dY/Y)=−2,72, mu=−0,13
L*u=1780, dYu=0,03, dYu/Yu=0,0018
application range
xN=0,2
xw=5
log(Y)
CEU40–5A


log [(ΔY/Y) / (ΔY/Y)u]
LABJNDu4 relative tristimulus value sensitivity
Ync=L*wR Bnc=100, 52, 87, 31
Sr/Sru=(ΔY/Y)/(ΔY/Y)u
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=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=0,0438, cx=0,42
(dY/Y)18/(dY/Y)u=1,00, A1n=0,007, A2n=0,0024
(dY/Y)3,6/(dY/Y)u=1,, Yu=18, dYu=0,03
log[(dY/Y)/(dY/Y)u]=0, mu=−0,13
L*u=1780, dYu=0,03, dYu/Yu=0,0018
application range
xN=0,2
xw=5
log(Y)
CEU40–6A


log (Y/ΔY)
LABJNDu4 tristimulus value contrast
Ync=L*wR Bnc=100, 52, 87, 31
Cr=(Y/ΔY)
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=ln(A1n+A2ux)/(A2uA0n) (x=Y/Yu)
Y/dY=Y/[A0n(A1n+A2nY)]=xYu/[A0n(A1n+A2ux)]
L*u=1780, dYu=0,03, Yu/dYu=529
log(Y/dY)=2,72, mu=0,13
(Y/dY)90=596,34, A0n=0,6666, A2u=0,0438, cx=0,42
(Y/dY)18=529,53, A1n=0,007, A2n=0,0024
(Y/dY)3,6=339,41, Yu=18, dYu=0,03
application range
xN=0,2
xw=5
log(Y)
CEU40–7A


log [(Y/ΔY) / (Y/ΔY)u]
LABJNDu4 relative tristimulus value contrast
Ync=L*wR Bnc=100, 52, 87, 31
Cr/Cru=(Y/ΔY)/(Y/ΔY)u
L*LABJNDu4=ln(A1n+A2nY)/(A2nA0n) (Ync/100<Y<=Ync)
L*LABJNDu4=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=0,0438, cx=0,42
(Y/dY)18/(Y/dY)u=1,00, A1n=0,007, A2n=0,0024
(Y/dY)3,6/(Y/dY)u=0,64, Yu=18, dYu=0,03
log[(Y/dY)/(Y/dY)u]=0, mu=0,13
L*u=1780, dYu=0,03, Yu/dYu=529
application range
xN=0,2
xw=5
log(Y)
CEU40–8A

CEU41–7N