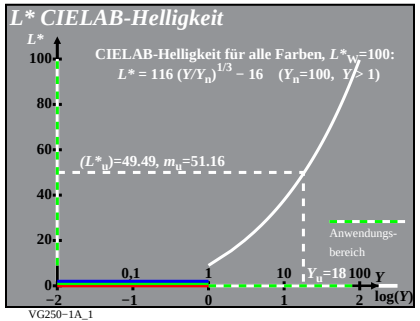
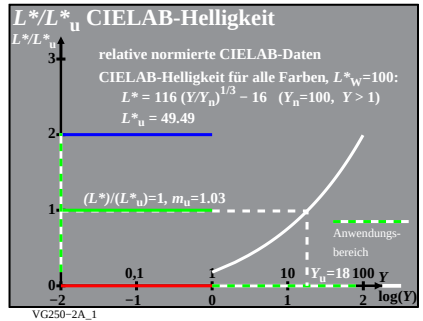
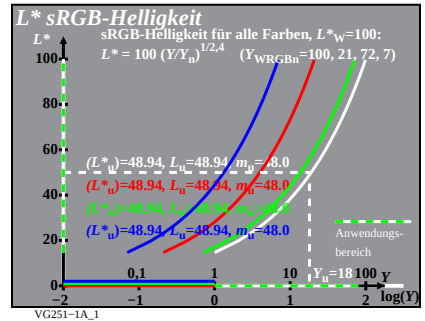
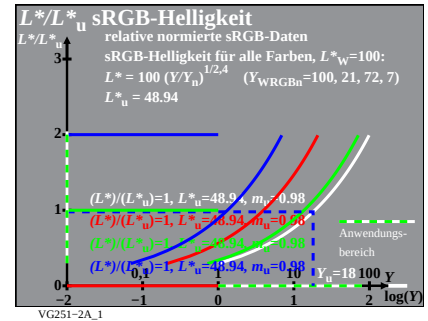
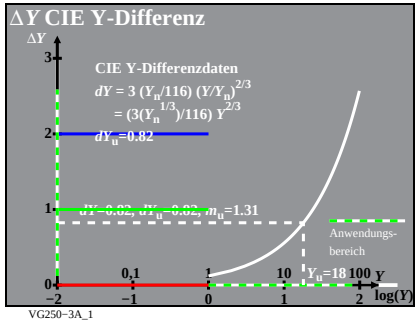
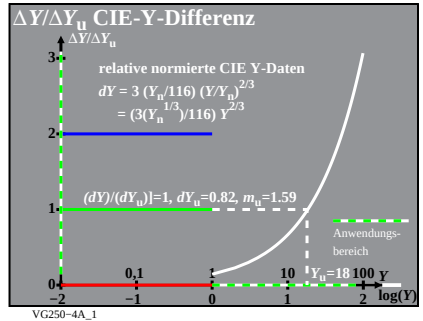

L* CIELAB-Helligkeit
CIELAB-Helligkeit für alle Farben, L*W=100:
L* = 116 (Y/Yn)1/3 − 16 (Yn=100, Y > 1)
(L*u)=49.49, mu=51.16
Anwendungs-bereich
VG250−1A_1

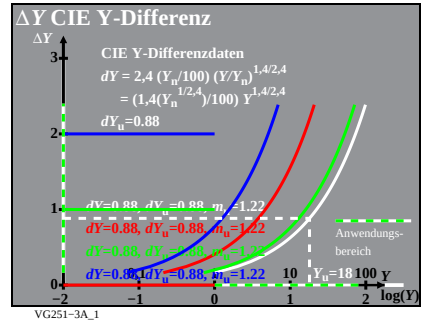

L*/L*u CIELAB-Helligkeit
relative normierte CIELAB-Daten
CIELAB-Helligkeit für alle Farben, L*W=100:
L* = 116 (Y/Yn)1/3 − 16 (Yn=100, Y > 1)
L*u = 49.49
(L*)/(L*u)=1, mu=1.03
Anwendungs-bereich
VG250−2A_1

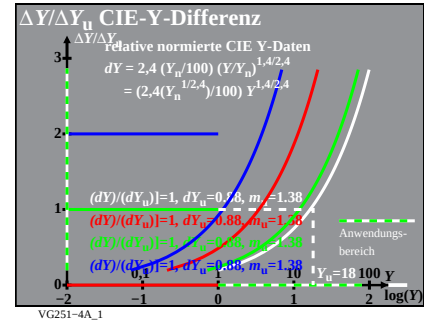

L* sRGB-Helligkeit
sRGB-Helligkeit für alle Farben, L*W=100:
L* = 100 (Y/Yn)1/2,4 (YWRGBn=100, 21, 72, 7)
(L*u)=48.94, Lu=48.94, mu=48.0
(L*u)=48.94, Lu=48.94, mu=48.0
(L*u)=48.94, Lu=48.94, mu=48.0
(L*u)=48.94, Lu=48.94, mu=48.0
Anwendungs-bereich
VG251−1A_1

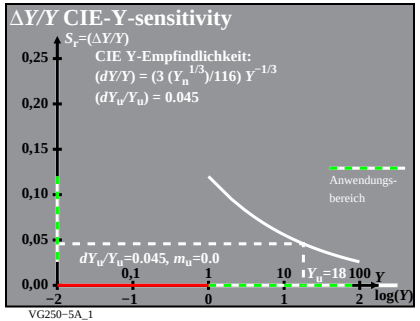

L*/L*u sRGB-Helligkeit
relative normierte sRGB-Daten
sRGB-Helligkeit für alle Farben, L*W=100:
L* = 100 (Y/Yn)1/2,4 (YWRGBn=100, 21, 72, 7)
L*u = 48.94
(L*)/(L*u)=1, L*u=48.94, mu=0.98
(L*)/(L*u)=1, L*u=48.94, mu=0.98
(L*)/(L*u)=1, L*u=48.94, mu=0.98
(L*)/(L*u)=1, L*u=48.94, mu=0.98
Anwendungs-bereich
VG251−2A_1

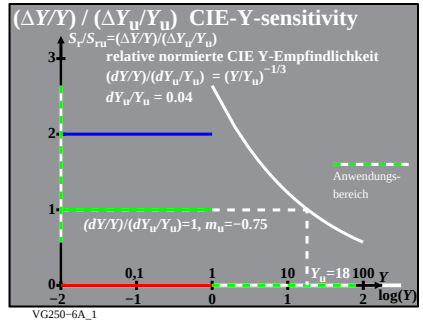

ΔY CIE Y-Differenz
CIE Y-Differenzdaten
dY = 3 (Yn/116) (Y/Yn)2/3
= (3(Yn1/3)/116) Y2/3
dYu=0.82
dY=0.82, dYu=0.82, mu=1.31
Anwendungs-bereich
VG250−3A_1

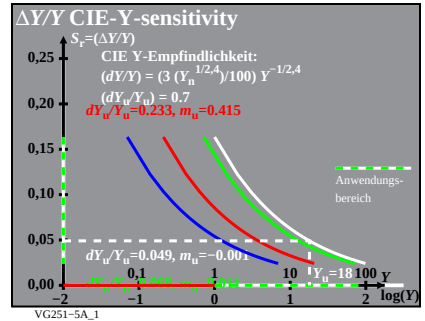

ΔY/ΔYu CIE-Y-Differenz
relative normierte CIE Y-Daten
dY = 3 (Yn/116) (Y/Yn)2/3
= (3(Yn1/3)/116) Y2/3
(dY)/(dYu)]=1, dYu=0.82, mu=1.59
Anwendungs-bereich
VG250−4A_1

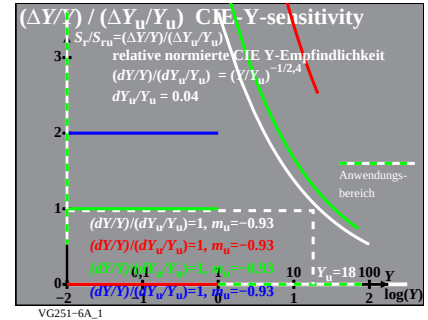

ΔY CIE Y-Differenz
CIE Y-Differenzdaten
dY = 2,4 (Yn/100) (Y/Yn)1,4/2,4
= (1,4(Yn1/2,4)/100) Y1,4/2,4
dYu=0.88
dY=0.88, dYu=0.88, mu=1.22
dY=0.88, dYu=0.88, mu=1.22
dY=0.88, dYu=0.88, mu=1.22
dY=0.88, dYu=0.88, mu=1.22
Anwendungs-bereich
VG251−3A_1

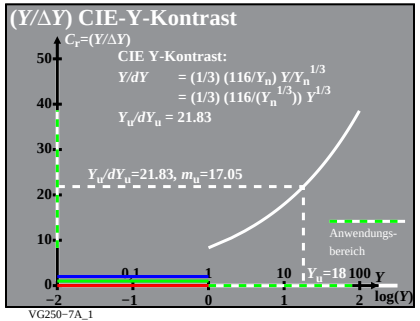

ΔY/ΔYu CIE-Y-Differenz
relative normierte CIE Y-Daten
dY = 2,4 (Yn/100) (Y/Yn)1,4/2,4
= (2,4(Yn1/2,4)/100) Y1,4/2,4
(dY)/(dYu)]=1, dYu=0.88, mu=1.38
(dY)/(dYu)]=1, dYu=0.88, mu=1.38
(dY)/(dYu)]=1, dYu=0.88, mu=1.38
(dY)/(dYu)]=1, dYu=0.88, mu=1.38
Anwendungs-bereich
VG251−4A_1

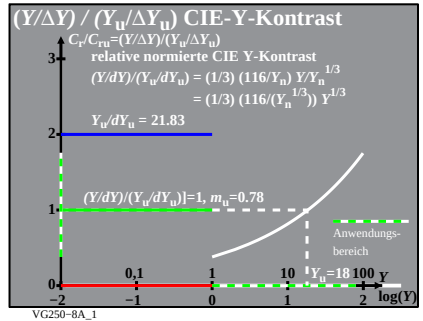

ΔY/Y CIE-Y-sensitivity
Sr=(ΔY/Y)
CIE Y-Empfindlichkeit:
(dY/Y) = (3 (Yn1/3)/116) Y−1/3
(dYu/Yu) = 0.045
dYu/Yu=0.045, mu=0.0
Anwendungs-bereich
VG250−5A_1

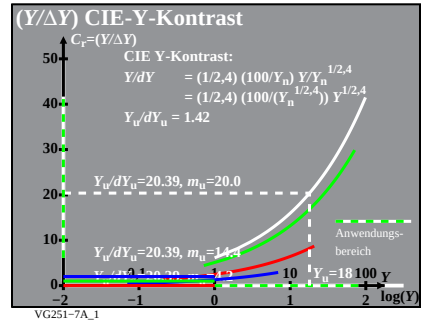

(ΔY/Y) / (ΔYu/Yu) CIE-Y-sensitivity
Sr/Sru=(ΔY/Y)/(ΔYu/Yu)
relative normierte CIE Y-Empfindlichkeit
(dY/Y)/(dYu/Yu) = (Y/Yu)−1/3
dYu/Yu = 0.04
(dY/Y)/(dYu/Yu)=1, mu=−0.75
Anwendungs-bereich
VG250−6A_1

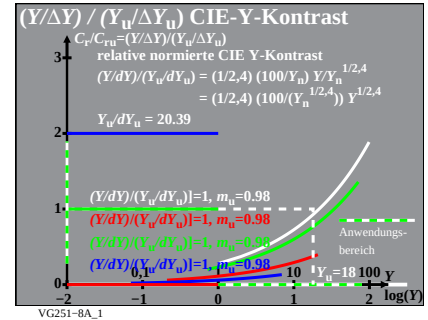

ΔY/Y CIE-Y-sensitivity
Sr=(ΔY/Y)
CIE Y-Empfindlichkeit:
(dY/Y) = (3 (Yn1/2,4)/100) Y−1/2,4
(dYu/Yu) = 0.7
dYu/Yu=0.233, mu=0.415
dYu/Yu=0.049, mu=−0.001
dYu/Yu=0.049, mu=−0.001
Anwendungs-bereich
VG251−5A_1


(ΔY/Y) / (ΔYu/Yu) CIE-Y-sensitivity
Sr/Sru=(ΔY/Y)/(ΔYu/Yu)
relative normierte CIE Y-Empfindlichkeit
(dY/Y)/(dYu/Yu) = (Y/Yu)−1/2,4
dYu/Yu = 0.04
(dY/Y)/(dYu/Yu)=1, mu=−0.93
(dY/Y)/(dYu/Yu)=1, mu=−0.93
(dY/Y)/(dYu/Yu)=1, mu=−0.93
(dY/Y)/(dYu/Yu)=1, mu=−0.93
Anwendungs-bereich
VG251−6A_1


(Y/ΔY) CIE-Y-Kontrast
Cr=(Y/ΔY)
CIE Y-Kontrast:
Y/dY = (1/3) (116/Yn) Y/Yn1/3
= (1/3) (116/(Yn1/3)) Y1/3
Yu/dYu = 21.83
Yu/dYu=21.83, mu=17.05
Anwendungs-bereich
VG250−7A_1


(Y/ΔY) / (Yu/ΔYu) CIE-Y-Kontrast
Cr/Cru=(Y/ΔY)/(Yu/ΔYu)
relative normierte CIE-Y-Kontrast
(Y/dY)/(Yu/dYu) = (1/3) (116/Yn) Y/Yn1/3
= (1/3) (116/(Yn1/3)) Y1/3
Yu/dYu = 21.83
(Y/dY)/(Yu/dYu)]=1, mu=0.78
Anwendungs-bereich
VG250−8A_1


(Y/ΔY) CIE-Y-Kontrast
Cr=(Y/ΔY)
CIE Y-Kontrast:
Y/dY = (1/2,4) (100/Yn) Y/Yn1/2,4
= (1/2,4) (100/(Yn1/2,4)) Y1/2,4
Yu/dYu = 1.42
Yu/dYu=20.39, mu=20.0
Yu/dYu=20.39, mu=14.3
Yu/dYu=20.39, mu=14.3
Anwendungs-bereich
VG251−7A_1


(Y/ΔY) / (Yu/ΔYu) CIE-Y-Kontrast
Cr/Cru=(Y/ΔY)/(Yu/ΔYu)
relative normierte CIE-Y-Kontrast
(Y/dY)/(Yu/dYu) = (1/2,4) (100/Yn) Y/Yn1/2,4
= (1/2,4) (100/(Yn1/2,4)) Y1/2,4
Yu/dYu = 20.39
(Y/dY)/(Yu/dYu)]=1, mu=0.98
(Y/dY)/(Yu/dYu)]=1, mu=0.98
(Y/dY)/(Yu/dYu)]=1, mu=0.98
(Y/dY)/(Yu/dYu)]=1, mu=0.98
Anwendungs-bereich
VG251−8A_1

VG250−7R