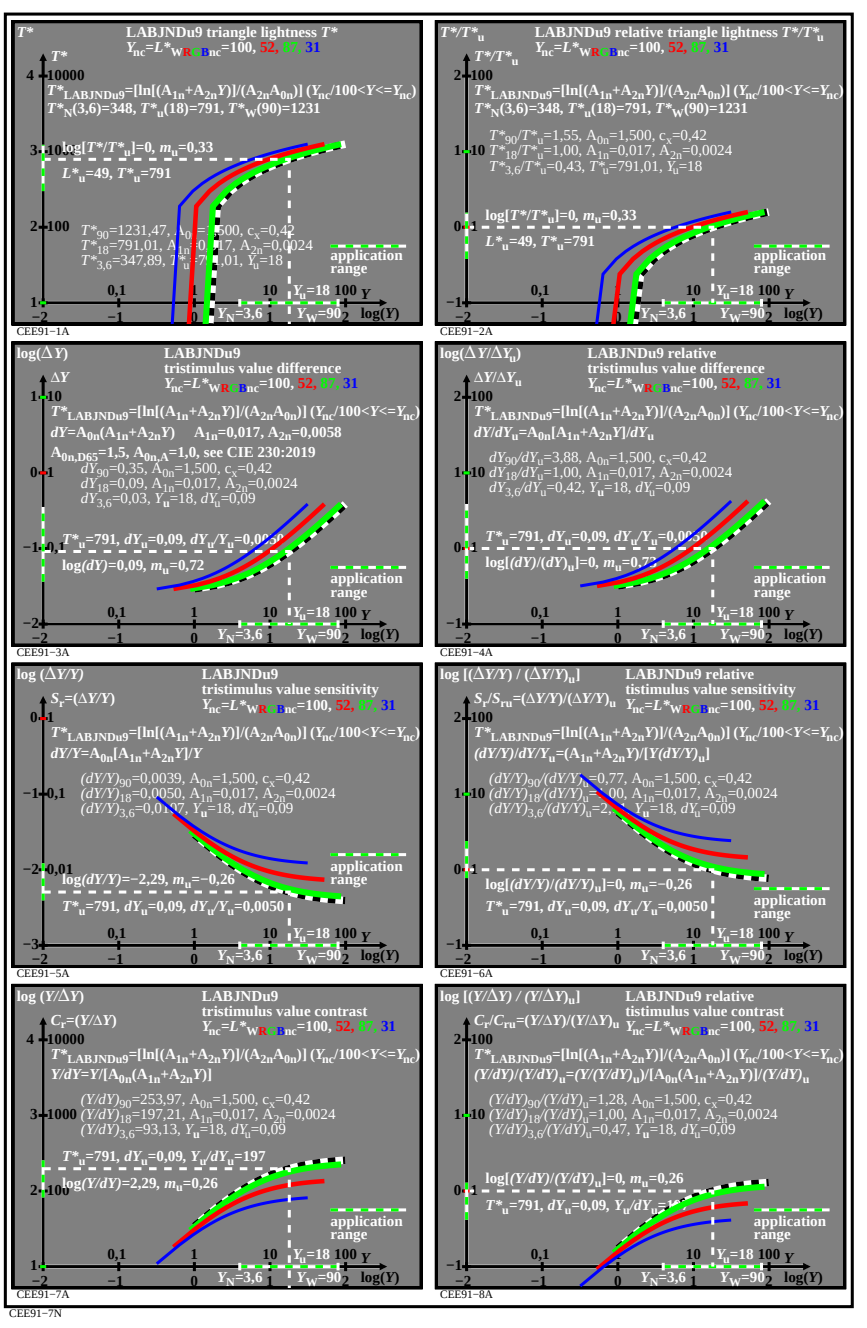
T*
LABJNDu9 triangle lightness T*
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
T*_N(3,6)=348, T*_u(18)=791, T*_W(90)=1231
log[T*/T*_u]=0, m_u=0,33
L*_u=49, T*_u=791
T*_90=1231,47, A_0n=1,500, c_x=0,42
T*_18=791,01, A_1n=0,017, A_2n=0,0024
T*_3,6=347,89, T*_u=791,01, Y_u=18
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–1A
T*/T*_u
LABJNDu9 relative triangle lightness T*/T*_u
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
T*_N(3,6)=348, T*_u(18)=791, T*_W(90)=1231
T*_90/T*_u=1,55, A_0n=1,500, c_x=0,42
T*_18/T*_u=1,00, A_1n=0,017, A_2n=0,0024
T*_3,6/T*_u=0,43, T*_u=791,01, Y_u=18
log[T*/T*_u]=0, m_u=0,33
L*_u=49, T*_u=791
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–2A
log(ΔY)
LABJNDu9
tristimulus value difference
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
dY=A_0n(A_1n+A_2n Y) A_1n=0,017, A_2n=0,0058
A_0n,D65=1,5, A_0n,A=1,0, see CIE 230:2019
dY_90=0,35, A_0n=1,500, c_x=0,42
dY_18=0,09, A_1n=0,017, A_2n=0,0024
dY_3,6=0,03, Y_u=18, dY_u=0,09
T*_u=791, dY_u=0,09, dY_u/Y_u=0,0050
log(dY)=0,09, m_u=0,72
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–3A
log(ΔY/ΔY_u)
LABJNDu9 relative
tristimulus value difference
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
dY/dY_u=A_0n[A_1n+A_2n Y]/dY_u
dY_90/dY_u=3,88, A_0n=1,500, c_x=0,42
dY_18/dY_u=1,00, A_1n=0,017, A_2n=0,0024
dY_3,6/dY_u=0,42, Y_u=18, dY_u=0,09
T*_u=791, dY_u=0,09, dY_u/Y_u=0,0050
log[(dY)/(dY)_u]=0, m_u=0,72
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–4A
log (ΔY/Y)
LABJNDu9
tristimulus value sensitivity
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
dY/Y=A_0n[A_1n+A_2n Y]/Y
(dY/Y)_90=0,0039, A_0n=1,500, c_x=0,42
(dY/Y)_18=0,0050, A_1n=0,017, A_2n=0,0024
(dY/Y)_3,6=0,0107, Y_u=18, dY_u=0,09
log(dY/Y)=−2,29, m_u=−0,26
T*_u=791, dY_u=0,09, dY_u/Y_u=0,0050
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–5A
log [(ΔY/Y) / (ΔY/Y)_u]
LABJNDu9 relative
tristimulus value sensitivity
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
(dY/Y)/dY/Y_u=(A_1n+A_2n Y)/[Y(dY/Y)_u]
(dY/Y)_90/(dY/Y)_u=0,77, A_0n=1,500, c_x=0,42
(dY/Y)_18/(dY/Y)_u=1,00, A_1n=0,017, A_2n=0,0024
(dY/Y)_3,6/(dY/Y)_u=2,14, Y_u=18, dY_u=0,09
log[(dY/Y)/(dY/Y)_u]=0, m_u=−0,26
T*_u=791, dY_u=0,09, dY_u/Y_u=0,0050
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–6A
log (Y/ΔY)
LABJNDu9
tristimulus value contrast
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
Y/dY=Y/[A_0n(A_1n+A_2n Y)]
(Y/dY)_90=253,97, A_0n=1,500, c_x=0,42
(Y/dY)_18=197,21, A_1n=0,017, A_2n=0,0024
(Y/dY)_3,6=93,13, Y_u=18, dY_u=0,09
T*_u=791, dY_u=0,09, Y_u/dY_u=197
log(Y/dY)=2,29, m_u=0,26
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–7A
log [(Y/ΔY) / (Y/ΔY)_u]
LABJNDu9 relative
tristimulus value contrast
Y_nc=L*_W R_B nc=100, 52, 87, 31
T*_LABJNDu9=[ln[(A_1n+A_2n Y)]/(A_2n A_0n)] (Y_nc/100<Y<=Y_nc)
(Y/dY)/(Y/dY)_u=(Y/(Y/dY)_u)/[A_0n(A_1n+A_2n Y)]/(Y/dY)_u
(Y/dY)_90/(Y/dY)_u=1,28, A_0n=1,500, c_x=0,42
(Y/dY)_18/(Y/dY)_u=1,00, A_1n=0,017, A_2n=0,0024
(Y/dY)_3,6/(Y/dY)_u=0,47, Y_u=18, dY_u=0,09
log[(Y/dY)/(Y/dY)_u]=0, m_u=0,26
T*_u=791, dY_u=0,09, Y_u/dY_u=197
application range
Y_u=18 100 Y
Y_N=3,6 1
Y_W=90 2 log(Y)
CEE91–8A
CEE91–7N