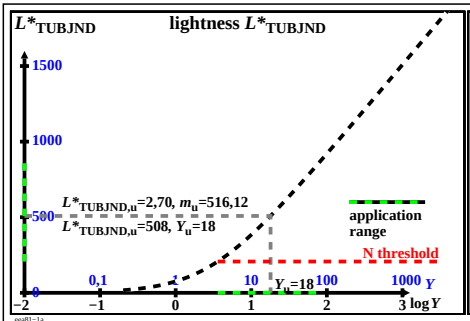
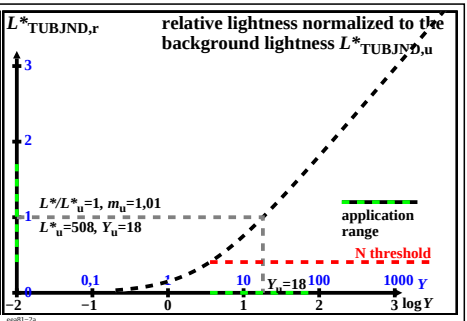
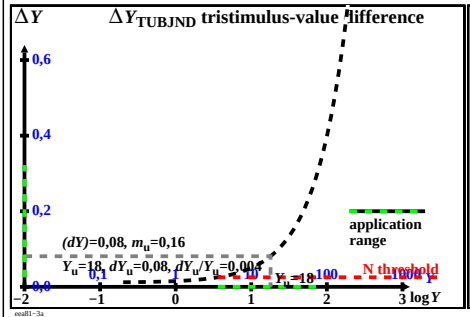
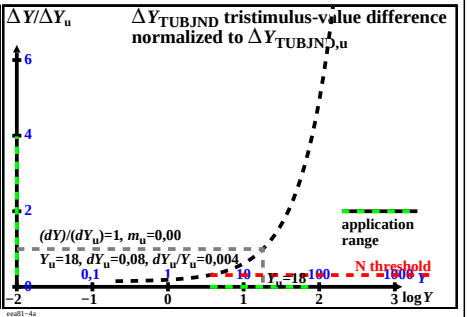
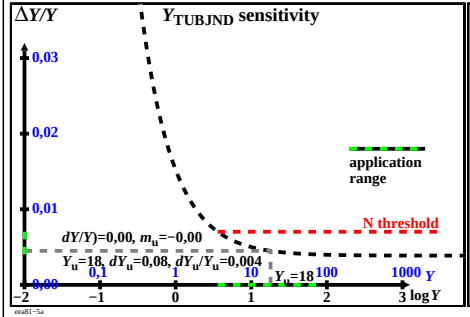
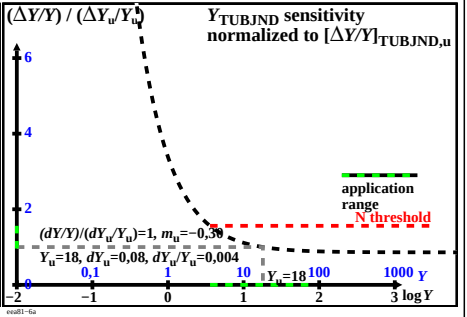

L*TUBJND
lightness L*TUBJND
1500
1000
500
0
L*TUBJND,u=2,70, mu=516,12
L*TUBJND,u=508, Yu=18
application range
N threshold
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−1a

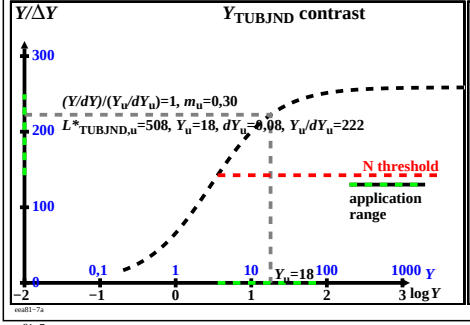

L*TUBJND,r
relative lightness normalized to the background lightness L*TUBJND,u
3
2
1
0
L*/L*u=1, mu=1,01
L*u=508, Yu=18
application range
N threshold
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−2a

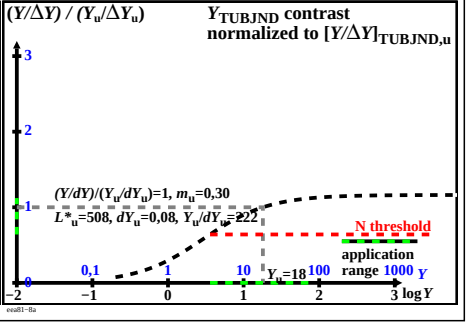

ΔY
ΔYTUBJND tristimulus-value difference
0,6
0,4
0,2
0,0
(dY)=0,08, mu=0,16
Yu=18, dYu=0,08, dYu/Yu=0,004
application range
N threshold
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−3a


ΔY/ΔYu
ΔYTUBJND tristimulus-value difference normalized to ΔYTUBJND,u
6
4
2
0
(dY)/(dYu)=1, mu=0,00
Yu=18, dYu=0,08, dYu/Yu=0,004
application range
N threshold
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−4a


ΔY/Y
YTUBJND sensitivity
0,03
0,02
0,01
0,00
dY/Y)=0,00, mu=−0,00
Yu=18, dYu=0,08, dYu/Yu=0,004
application range
N threshold
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−5a


(ΔY/Y) / (ΔYu/Yu)
YTUBJND sensitivity normalized to [ΔY/Y]TUBJND,u
6
4
2
0
(dY/Y)/(dYu/Yu)=1, mu=−0,30
Yu=18, dYu=0,08, dYu/Yu=0,004
application range
N threshold
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−6a


Y/ΔY
YTUBJND contrast
300
200
100
0
(Y/dY)/(Yu/dYu)=1, mu=0,30
L*TUBJND,u=508, Yu=18, dYu=0,08, Yu/dYu=222
N threshold
application range
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−7a


(Y/ΔY) / (Yu/ΔYu)
YTUBJND contrast normalized to [Y/ΔY]TUBJND,u
3
2
1
0
(Y/dY)/(Yu/dYu)=1, mu=0,30
L*u=508, dYu=0,08, Yu/dYu=222
N threshold
application range
0,1
1
10
Yu=18
100
1000
Y
−2
−1
0
1
2
3 log Y
eea81−8a

eea81−7n