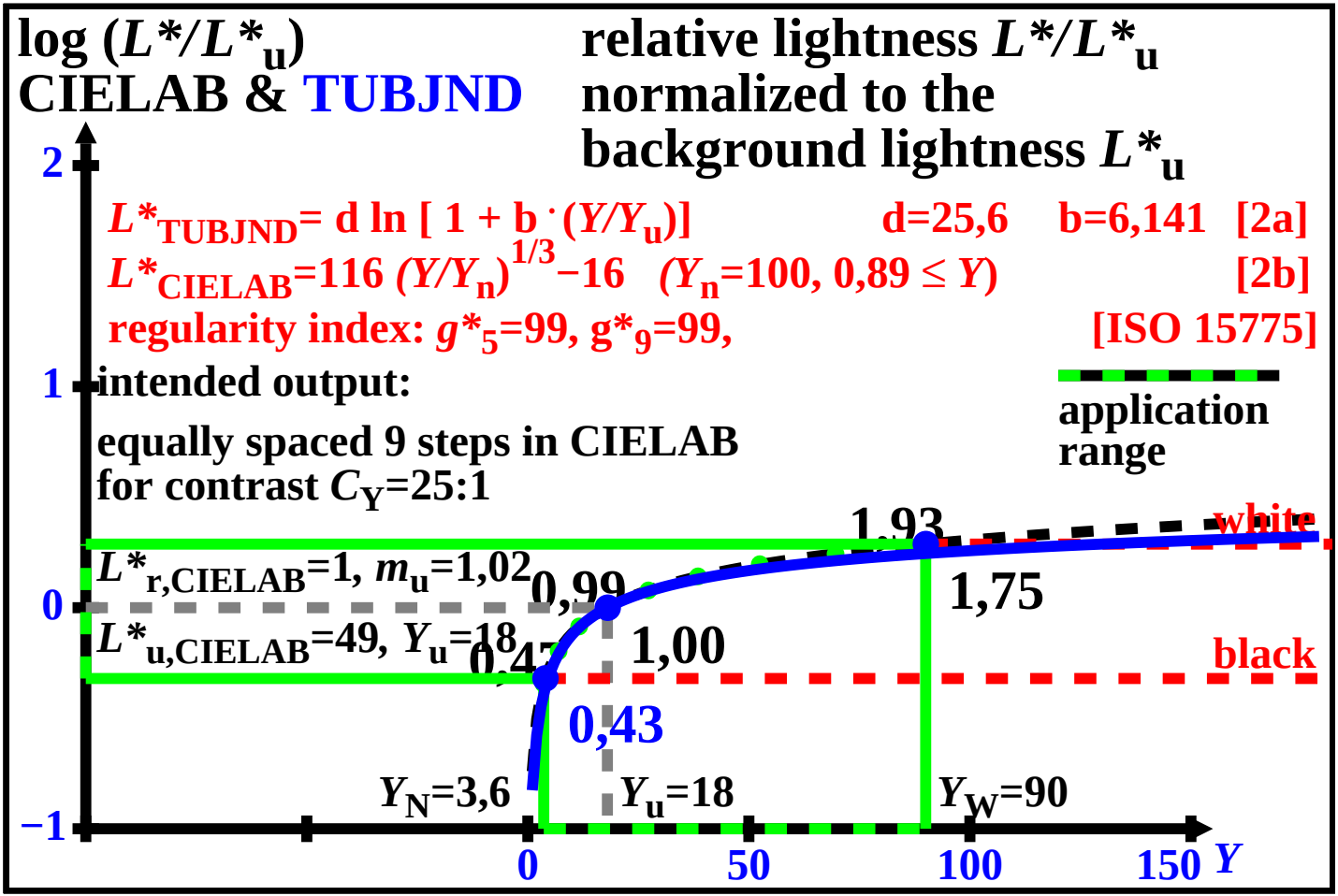
log (L*/L*u)
CIELAB & TUBJND
relative lightness L*/L*u
normalized to the
background lightness L*u
L*TUBJND= d ln [1 + b·(Y/Yu)]
d=25,6
b=6,141
[2a]
L*CIELAB=116 (Y/Yn)1/3−16 (Yn=100, 0,89 ≤ Y)
[2b]
regularity index: g*5=99, g*9=99,
[ISO 15775]
intended output:
equally spaced 9 steps in CIELAB
for contrast CY=25:1
application
range
L*r,CIELAB=1, mu=1,02
L*u,CIELAB=49, Yu=18
1,93
0,99
1,75
1,00
0,47
0,43
white
black
YN=3,6
Yu=18
YW=90
2
1
0
−1
0
50
100
150
Y