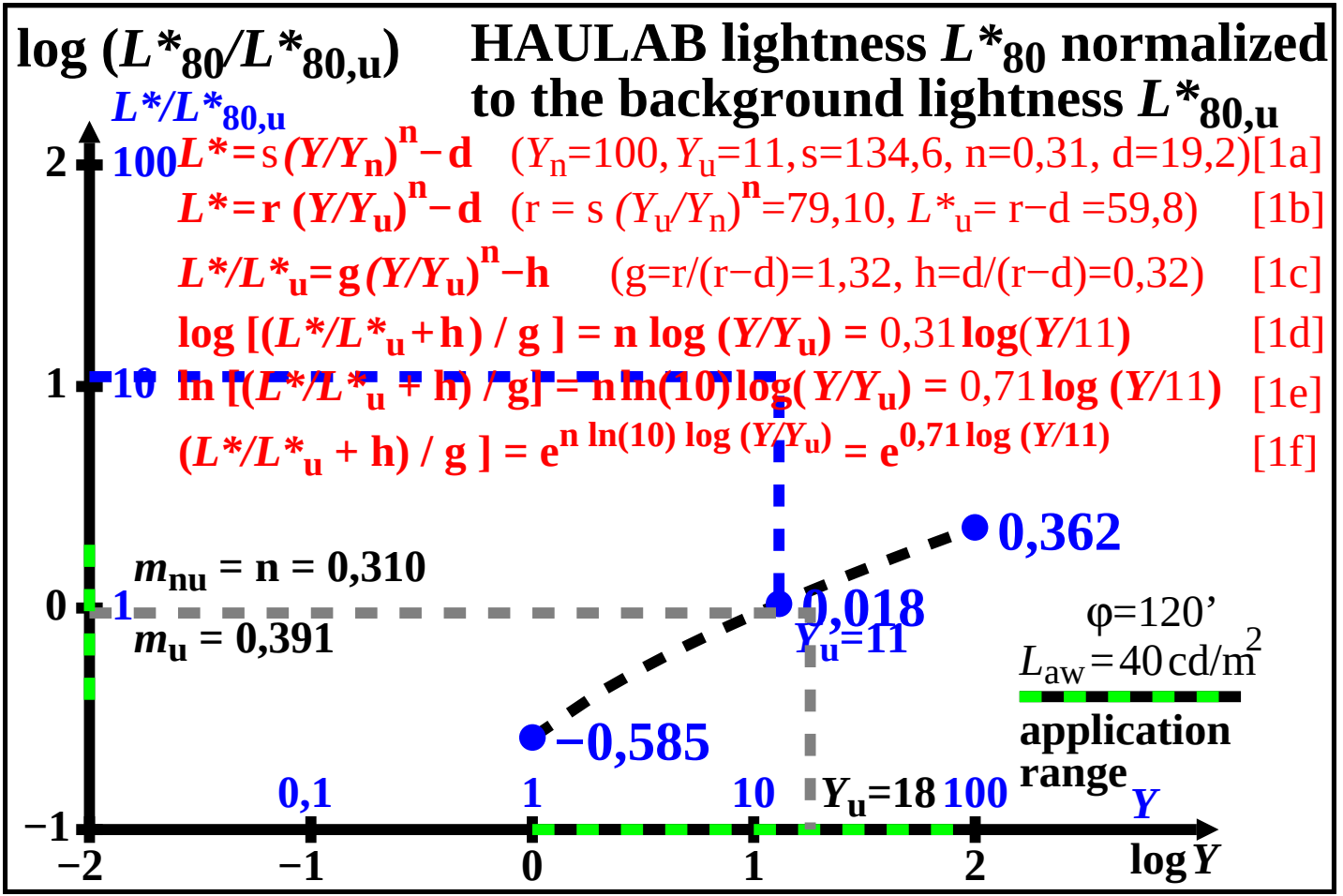
log (L*80/L*80,u)
HAULAB lightness L*80 normalized to the background lightness L*80,u
L*/L*80,u
L*=s(Y/Yn)^n−d (Yn=100, Yu=11, s=134,6, n=0,31, d=19,2) [1a]
L*=r (Y/Yu)^n−d (r = s (Yu/Yn)^n=79,10, L*u= r−d =59,8) [1b]
L*/L*u=g(Y/Yu)^n−h (g=r/(r−d)=1,32, h=d/(r−d)=0,32) [1c]
log [(L*/L*u+h) / g] = n log (Y/Yu) = 0,31 log(Y/11) [1d]
ln [(L*/L*u + h) / g] = n ln(10) log(Y/Yu) = 0,71 log (Y/11) [1e]
(L*/L*u + h) / g] = e^n ln(10) log (Y/Yu) = e^0,71 log (Y/11) [1f]
2
1
0
−1
100
10
1
0,1
0,362
0,018
−0,585
mnu = n = 0,310
mu = 0,391
Yu=11
Yu=18
φ=120’
Law = 40 cd/m2
application range
Y
log Y
−2
−1
0
1
2

hen90−4a