Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a = 40$ cd/m^2

$B^*_{YT}(L_T, L_r, \varphi) = s_{yra}(\varphi) L_T^n - d_{yra}(\varphi)$ brightness B^*_{YT} [1]

$B_r(L_r, \varphi) = C_T(\varphi)[S_0(\varphi) + S_1(\varphi) L_r^n]$ (n=0,31, $B^*_{ra} = B^*_{LT,r}/B^*_{LT,a}$) [2]

$s_{yra}(\varphi) = C_T(\varphi) B^*_{ra}$ [3] $d_{yra}(\varphi) = B_r(L_r, \varphi) B^*_{ra}$ [4] (s=scaling factor)

Y_T	φ	$C_T(\varphi)$	ΔY	B^*/B^*_u	$B_r(L_r,\varphi)$	B^*_{YT}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
2,98	120’	22,969	0,098	3,00 P	19,29	79,16	0,56	22,96
1,87	120’	22,969	0,071	2,50	19,83	65,97	0,56	22,96
1,08	120’	22,969	0,049	2,00 D	21,10	52,77	0,56	22,96
0,56	120’	22,969	0,031	1,50	23,14	39,58	0,56	22,96
0,25	120’	22,969	0,018	1,00 U	30,96	26,38	0,56	22,96
0,08	120’	22,969	0,008	0,50	36,83	13,19	0,56	22,96
0,56	120’	22,969	0,018	0,00 N	46,83	0,00	0,56	22,96
0,25	120’	22,969	0,018	1,00 U	30,96	26,38	0,56	22,96

hes91-8a j=3, L_r=300, L_{aj}=40, φ=120’,