Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a = 200$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
10,55	120’	22,969	0,210	3,00 P	30,71	131,98	2,55	22,96
6,60	120’	22,969	0,152	2,50	31,54	109,99	2,55	22,96
3,81	120’	22,969	0,104	2,00 D	33,11	87,99	2,55	22,96
1,97	120’	22,969	0,066	1,50	36,07	65,99	2,55	22,96
0,85	120’	22,969	0,037	1,00 U	47,94	43,99	2,55	22,96
0,27	120’	22,969	0,017	0,50	57,02	21,99	2,55	22,96
2,55	120’	22,969	0,054	0,00 N	71,70	0,00	2,55	22,96
0,85	120’	22,969	0,037	1,00 U	47,94	43,99	2,55	22,96

hes91-3a j=2, L_r=300, L_{ai}=200, φ=120’,