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	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_r(L_r,\varphi)$	B^*_{YT}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
628	120’	22,969	0,0718	0,2448	34,60	149,99	26,10	34,90
393	120’	22,969	0,0718	0,2448	34,60	124,99	26,10	34,90
227	120’	22,969	0,0718	0,2448	34,60	99,99	26,10	34,90
117	120’	22,969	0,0718	0,2448	34,60	74,99	26,10	34,90
51	120’	22,969	0,0718	0,2448	34,60	49,99	26,10	34,90
16	120’	22,969	0,0718	0,2448	34,60	24,99	26,10	34,90
2,90	120’	22,969	0,0718	0,2448	34,60	0,00	26,10	34,90
51	120’	22,969	0,0718	0,2448	35,53	49,99	26,10	34,90

hes01–1a j=2, L_r=300, L_{aj}=200, φ=120’, B_a=30,60, B^*_{YT}=87,99, s_{yra}=26,10 dd_{yra}=34,90