Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a = 300$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
831	120’	22,969	0,0718	0,2448	34,60	149,99	22,96	34,60
519	120’	22,969	0,0718	0,2448	34,60	124,99	22,96	34,60
300	120’	22,969	0,0718	0,2448	34,60	99,99	22,96	34,60
154	120’	22,969	0,0718	0,2448	34,60	74,99	22,96	34,60
67	120’	22,969	0,0718	0,2448	34,60	49,99	22,96	34,60
21	120’	22,969	0,0718	0,2448	34,60	24,99	22,96	34,60
3,75	120’	22,969	0,0718	0,2448	34,60	0,00	22,96	34,60
67	120’	22,969	0,0718	0,2448	35,53	49,99	22,96	34,60

hes20−6a j=1, L_r=300, L_{aj}=300, φ=120’, B_a=34,60, B^*_{YT}=99,99, s_{yra}=22,96 d_{yra}=34,60