

**Relationship brightness  $B_{YT}^*$  and luminance  $L_T$  as function of tristimulus value  $Y_T$  for the adaptation luminance  $L_a = 1000 \text{ cd/m}^2$**

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

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

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

$Y_T$	$\varphi$	$C_T(\varphi)$	$\Delta Y$	$B^*/B_u^*$	$B_r(L_r, \varphi)$	$B_{YT}^*$	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
42,53	120'	22,969	0,513	2,99 P	49,51	218,98	11,91	22,96
26,54	120'	22,969	0,370	2,50	50,82	182,48	11,91	22,96
15,28	120'	22,969	0,253	2,00 D	52,89	145,98	11,91	22,96
7,84	120'	22,969	0,160	1,49	57,37	109,49	11,91	22,96
3,38	120'	22,969	0,089	1,00 U	75,92	72,99	11,91	22,96
1,08	120'	22,969	0,041	0,50	90,28	36,49	11,91	22,96
11,91	120'	22,969	0,194	0,00 N	112,66	0,00	11,91	22,96
3,38	120'	22,969	0,089	1,00 U	75,92	72,99	11,91	22,96