

Relationship brightness $B_{LT}^*$ and luminance $L_T$ as function of tristimulus value $Y_T$ for the adaptation luminance $L_a=1000$ cd/m <sup>2</sup>								
$B_{LT}^*(L_T, L_a, \varphi) = C_T(\varphi)L_T^n - B_a(L_a, \varphi)$ brightness $B_{LT}^*$ [1]								
$B_a(L_a, \varphi) = C_T(\varphi)[S_0(\varphi) + S_1(\varphi)L_a^n]$ (n=0,31) [2]								
$L_{Lt}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi)L_a^n]^{1/n}$ (t=black threshold) [3]								
$L_T$	$\varphi$	$C_T(\varphi)$	$\Delta L$	$B^*/B_u^*$	$B_a(L_a, \varphi)$	$B_{LT}^*$	$L_{Lt}$	$L_a/L_T$
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

hes90-5a j=1,  $L_r=300$ ,  $L_{aj}=1000$ ,  $\varphi=120^\circ$ ,

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$B_{LT}^*(L_T, L_a, \varphi) = s_x(\varphi)L_T^n - d_{xa}(L_a, \varphi)$ brightness $B_{LT}^*$ [1]											
$B_a(L_a, \varphi) = C_T(\varphi)[S_0(\varphi) + S_1(\varphi)L_a^n]$ (n=0,31) [2]											
$s_x(\varphi) = C_T(\varphi)$ [3] $d_{xa}(\varphi) = B_a(L_a, \varphi)$ [4] (s=scaling factor)											
$L_T$	$\varphi$	$C_T(\varphi)$	$\Delta L$	$B^*/B_u^*$	$B_a(L_a, \varphi)$	$B_{LT}^*$	$s_x(\varphi)$	$d_{xa}(\varphi)$			
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			
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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			

hes90-6a j=1,  $L_r=300$ ,  $L_{aj}=1000$ ,  $\varphi=120^\circ$ ,

Relationship brightness $B_{YT}^*$ and luminance $L_T$ as function of tristimulus value $Y_T$ for the adaptation luminance $L_a=1000$ cd/m <sup>2</sup>								
$B_{YT}^*(L_T, L_r, L_r, \varphi) = [C_T(\varphi)L_T^n - B_r(L_r, \varphi)]B_{ra}^*$ 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]								
$L_{Yt}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi)L_r^n]^{1/n} B_{ra}^*$ (t=black threshold) [3]								
$Y_T$	$\varphi$	$C_T(\varphi)$	$\Delta Y$	$B^*/B_u^*$	$B_r(L_r, \varphi)$	$B_{YT}^*$	$L_{Yt}$	$L_a/L_T$
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
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hes90-7a j=1,  $L_r=300$ ,  $L_{aj}=1000$ ,  $\varphi=120^\circ$ ,

hes90-3R\_R

Relationship brightness $B_{YT}^*$ and luminance $L_T$ as function of tristimulus value $Y_T$ for the adaptation luminance $L_a=1000$ cd/m <sup>2</sup>										
$B_{YT}^*(L_T, L_r, \varphi) = s_{yra}(\varphi)L_T^n - d_{yra}(\varphi)$ 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)										
$Y_T$	$\varphi$	$C_T(\varphi)$	$\Delta Y$	$B^*/B_u^*$	$B_r(L_r, \varphi)$	$B_{YT}^*$	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$		
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		
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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		

hes90-8a j=1,  $L_r=300$ ,  $L_{aj}=1000$ ,  $\varphi=120^\circ$ ,