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Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=300$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_a, \varphi) = C_T(\varphi) L_T^n - B_a(L_a, \varphi)$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31)
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = C_T(\varphi) L_T^n - B_r(L_r, \varphi) B_{ra}^*$ [4] (s=scaling factor)

L_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a, \varphi)$	B_{YT}^*	L_{LT}	L_a/L_T
831	120°	22.969	0.0718	0.2448	34.60	149.99	3.75	79.99
519	120°	22.969	0.0718	0.2448	34.60	124.99	3.75	79.99
300	120°	22.969	0.0718	0.2448	34.60	99.99	3.75	79.99
154	120°	22.969	0.0718	0.2448	34.60	74.99	3.75	79.99
67	120°	22.969	0.0718	0.2448	34.60	49.99	3.75	79.99
21	120°	22.969	0.0718	0.2448	34.60	24.99	3.75	79.99
3.75	120°	22.969	0.0718	0.2448	34.60	0.00	3.75	79.99
67	120°	22.969	0.0718	0.2448	35.53	49.99	3.75	79.99

hes00-1a j=0, $L_a=300$, $L_{aj}=300$, $\varphi=120^\circ$, $B_a=34.60$, $B_{ra}^*=99.99$, $s_r=22.96$, $d_{ra}=34.60$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=300$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_a, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31)
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [4] (s=scaling factor)

L_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a, \varphi)$	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

hes00-2a j=0, $L_a=300$, $L_{aj}=300$, $\varphi=120^\circ$, $B_a=34.60$, $B_{ra}^*=99.99$, $s_r=22.96$, $d_{ra}=34.60$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=200$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_a, \varphi) = C_T(\varphi) L_T^n - B_a(L_a, \varphi)$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31)
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = C_T(\varphi) L_T^n - B_r(L_r, \varphi) B_{ra}^*$ [4] (s=scaling factor)

L_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a, \varphi)$	B_{YT}^*	L_{LT}	L_a/L_T
552	120°	22.969	0.0718	0.2448	30.71	131.98	2.55	78.36
346	120°	22.969	0.0718	0.2448	30.71	109.99	2.55	78.36
200	120°	22.969	0.0718	0.2448	30.71	87.99	2.55	78.36
103	120°	22.969	0.0718	0.2448	30.71	65.99	2.55	78.36
44	120°	22.969	0.0718	0.2448	30.71	43.99	2.55	78.36
14	120°	22.969	0.0718	0.2448	30.71	21.99	2.55	78.36
2.55	120°	22.969	0.0718	0.2448	30.71	0.00	2.55	78.36
44	120°	22.969	0.0718	0.2448	31.54	43.99	2.55	78.36

hes01-1a j=2, $L_a=300$, $L_{aj}=200$, $\varphi=120^\circ$, $B_a=30.71$, $B_{ra}^*=87.99$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=200$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31)
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [4] (s=scaling factor)

L_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a, \varphi)$	B_{YT}^*	$s_{Yra}(\varphi)$	$d_{Yra}(\varphi)$
552	120°	22.969	0.0718	0.2448	30.71	131.98	22.96	30.71
346	120°	22.969	0.0718	0.2448	30.71	109.99	22.96	30.71
200	120°	22.969	0.0718	0.2448	30.71	87.99	22.96	30.71
103	120°	22.969	0.0718	0.2448	30.71	65.99	22.96	30.71
44	120°	22.969	0.0718	0.2448	30.71	43.99	22.96	30.71
14	120°	22.969	0.0718	0.2448	30.71	21.99	22.96	30.71
2.55	120°	22.969	0.0718	0.2448	30.71	0.00	22.96	30.71
44	120°	22.969	0.0718	0.2448	31.54	43.99	22.96	30.71

hes01-2a j=2, $L_a=300$, $L_{aj}=200$, $\varphi=120^\circ$, $B_a=30.71$, $B_{ra}^*=87.99$, $s_r=22.96$, $d_{ra}=30.71$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=300$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_r, L_r, \varphi) = [C_T(\varphi) L_T^n - B_r(L_r, \varphi)] B_{ra}^*$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31, $B_{ra}^*=B_{ra}^*/B_{ra}^*$) [2]
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [4] (s=scaling factor)

Y_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_r(L_r, \varphi)$	B_{YT}^*	L_{YT}	L_a/L_T
831	120°	22.969	0.0718	0.2448	34.60	149.99	3.75	79.99
519	120°	22.969	0.0718	0.2448	34.60	124.99	3.75	79.99
300	120°	22.969	0.0718	0.2448	34.60	99.99	3.75	79.99
154	120°	22.969	0.0718	0.2448	34.60	74.99	3.75	79.99
67	120°	22.969	0.0718	0.2448	34.60	49.99	3.75	79.99
21	120°	22.969	0.0718	0.2448	34.60	24.99	3.75	79.99
3.75	120°	22.969	0.0718	0.2448	34.60	0.00	3.75	79.99
67	120°	22.969	0.0718	0.2448	35.53	49.99	3.75	79.99

hes00-3a j=0, $L_a=300$, $L_{aj}=300$, $\varphi=120^\circ$, $B_r=34.60$, $B_{ra}^*=99.99$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=300$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_r, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31, $B_{ra}^*=B_{ra}^*/B_{ra}^*$) [2]
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [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

hes00-4a j=0, $L_a=300$, $L_{aj}=300$, $\varphi=120^\circ$, $B_r=34.60$, $B_{ra}^*=99.99$, $s_r=22.96$, $d_{Yra}=34.60$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=200$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_r, L_r, \varphi) = [C_T(\varphi) L_T^n - B_r(L_r, \varphi)] B_{ra}^*$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31, $B_{ra}^*=B_{ra}^*/B_{ra}^*$) [2]
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [4] (s=scaling factor)

Y_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_r(L_r, \varphi)$	B_{YT}^*	L_{YT}	L_a/L_T
628	120°	22.969	0.0718	0.2448	34.60	149.99	2.90	78.36
393	120°	22.969	0.0718	0.2448	34.60	124.99	2.90	78.36
227	120°	22.969	0.0718	0.2448	34.60	99.99	2.90	78.36
117	120°	22.969	0.0718	0.2448	34.60	74.99	2.90	78.36
51	120°	22.969	0.0718	0.2448	34.60	49.99	2.90	78.36
16	120°	22.969	0.0718	0.2448	34.60	24.99	2.90	78.36
2.55	120°	22.969	0.0718	0.2448	34.60	0.00	2.90	78.36
51	120°	22.969	0.0718	0.2448	35.53	49.99	2.90	78.36

hes01-3a j=2, $L_a=300$, $L_{aj}=200$, $\varphi=120^\circ$, $B_r=34.60$, $B_{ra}^*=95.57$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=200$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_r, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31, $B_{ra}^*=B_{ra}^*/B_{ra}^*$) [2]
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = s_{Yra}(\varphi) L_T^n - d_{Yra}(\varphi)$ [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

hes01-4a j=2, $L_a=300$, $L_{aj}=200$, $\varphi=120^\circ$, $B_r=34.60$, $B_{ra}^*=95.57$, $s_r=26.10$, $d_{Yra}=34.90$

Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=1000$ cd/m²

brightness B_{YT}^* [1]
 $B_{YT}^*(L_T, L_a, \varphi) = C_T(\varphi) L_T^n - B_a(L_a, \varphi)$ [1]
brightness B_{YT}^* [2]
 $B_{YT}^*(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n]$ (n=0,31)
(=black threshold) [3]
 $L_{LT}(L_a, \varphi) = [S_0(\varphi) + S_1(\varphi) L_a^n]^{1/n}$

brightness B_{YT}^* [4]
 $B_{YT}^*(L_T, L_r, \varphi) = C_T(\varphi) L_T^n - B_r(L_r, \varphi) B_{ra}^*$ [4] (s=scaling factor)

L_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a, \varphi)$	B_{YT}^*	L_{LT}	L_a/L_T
2782	120°	22.969	0.0718	0.2448	49.51	218.98	11.91	83.94
1736	120°	22.969	0.0718	0.2448	49.51	182.48		