Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 1500 cd/m²

$B^*_{LT}(L_T, L_a, \varphi) = C_T(\varphi) L_T^n - B_a(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	L_{Lt}	L_a/L_t
8372	120'	22,969	0,0718	0,2448	68,92	308,83	34,63	86,60
5219	120'	22,969	0,0718	0,2448	68,92	257,36	34,63	86,60
3000	120'	22,969	0,0718	0,2448	68,92	205,89	34,63	86,60
1536	120'	22,969	0,0718	0,2448	68,92	154,41	34,63	86,60
660	120'	22,969	0,0718	0,2448	68,92	102,94	34,63	86,60
209	120'	22,969	0,0718	0,2448	68,92	51,47	34,63	86,60
34,63	120'	22,969	0,0718	0,2448	68,92	0,00	34,63	86,60
660	120'	22,969	0,0718	0,2448	70,75	102,94	34,63	86,60

hes20−1a j=0, L_t=300, L_{aj}=3000, φ=120', B_a=68,92, B^*_{LT}=205,89

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 1500 cd/m²

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi) L_T^n - d_{xa}(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	$s_x(\varphi)$	$d_{xa}(\varphi)$
8372	120'	22,969	0,0718	0,2448	68,92	308,83	22,96	68,92
5219	120'	22,969	0,0718	0,2448	68,92	257,36	22,96	68,92
3000	120'	22,969	0,0718	0,2448	68,92	205,89	22,96	68,92
1536	120'	22,969	0,0718	0,2448	68,92	154,41	22,96	68,92
660	120'	22,969	0,0718	0,2448	68,92	102,94	22,96	68,92
209	120'	22,969	0,0718	0,2448	68,92	51,47	22,96	68,92
34,63	120'	22,969	0,0718	0,2448	68,92	0,00	22,96	68,92
660	120'	22,969	0,0718	0,2448	70,75	102,94	22,96	68,92

hes20−2a j=0, L_t=300, L_{aj}=3000, φ=120', B_a=68,92, B^*_{YT}=205,89, s_x=22,96, d_{xa}=68,92

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 1500 cd/m²

$B^*_{YT}(L_T, L_r, L_r, \varphi) = [C_T(\varphi) L_T^n - B_r(L_r, \varphi)] B^*_{ra}$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_r(L_r,\varphi)$	B^*_{YT}	L_{Yt}	L_a/L_t
4066	120'	22,969	0,0718	0,2448	34,60	149,99	16,82	86,60
2535	120'	22,969	0,0718	0,2448	34,60	124,99	16,82	86,60
1457	120'	22,969	0,0718	0,2448	34,60	99,99	16,82	86,60
746	120'	22,969	0,0718	0,2448	34,60	74,99	16,82	86,60
320	120'	22,969	0,0718	0,2448	34,60	49,99	16,82	86,60
101	120'	22,969	0,0718	0,2448	34,60	24,99	16,82	86,60
34,63	120'	22,969	0,0718	0,2448	34,60	0,00	16,82	86,60
320	120'	22,969	0,0718	0,2448	35,53	49,99	16,82	86,60

hes20−3a j=0, L_t=300, L_{aj}=3000, φ=120', B_r=34,60, B^*_{YT}=116,67

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 1500 cd/m²

$B^*_{YT}(L_T, L_r, \varphi) = s_{yra}(\varphi) L_T^n - d_{yra}(\varphi)$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
4066	120'	22,969	0,0718	0,2448	34,60	149,99	11,15	33,47
2535	120'	22,969	0,0718	0,2448	34,60	124,99	11,15	33,47
1457	120'	22,969	0,0718	0,2448	34,60	99,99	11,15	33,47
746	120'	22,969	0,0718	0,2448	34,60	74,99	11,15	33,47
320	120'	22,969	0,0718	0,2448	34,60	49,99	11,15	33,47
101	120'	22,969	0,0718	0,2448	34,60	24,99	11,15	33,47
16,82	120'	22,969	0,0718	0,2448	34,60	0,00	11,15	33,47
320	120'	22,969	0,0718	0,2448	35,53	49,99	11,15	33,47

hes20−4a j=0, L_t=300, L_{aj}=3000, φ=120', B_r=34,60, B^*_{YT}=116,67, s_{yra}=11,15, d_{yra}=33,47

hes20−3R_R

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 30 cd/m²

$B^*_{LT}(L_T, L_a, \varphi) = C_T(\varphi) L_T^n - B_a(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	L_{Lt}	L_a/L_t
81	120'	22,969	0,0718	0,2448	17,78	72,20	0,43	68,40
51	120'	22,969	0,0718	0,2448	17,78	60,16	0,43	68,40
30	120'	22,969	0,0718	0,2448	17,78	48,13	0,43	68,40
15	120'	22,969	0,0718	0,2448	17,78	36,10	0,43	68,40
6	120'	22,969	0,0718	0,2448	17,78	24,06	0,43	68,40
2	120'	22,969	0,0718	0,2448	17,78	12,03	0,43	68,40
0,43	120'	22,969	0,0718	0,2448	17,78	0,00	0,43	68,40
6	120'	22,969	0,0718	0,2448	18,28	24,06	0,43	68,40

hes21−1a j=2, L_t=300, L_{aj}=30, φ=120', B_a=17,78, B^*_{LT}=48,13

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 30 cd/m²

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi) L_T^n - d_{xa}(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	$s_x(\varphi)$	$d_{xa}(\varphi)$
81	120'	22,969	0,0718	0,2448	17,78	72,20	22,96	17,78
51	120'	22,969	0,0718	0,2448	17,78	60,16	22,96	17,78
30	120'	22,969	0,0718	0,2448	17,78	48,13	22,96	17,78
15	120'	22,969	0,0718	0,2448	17,78	36,10	22,96	17,78
6	120'	22,969	0,0718	0,2448	17,78	24,06	22,96	17,78
2	120'	22,969	0,0718	0,2448	17,78	12,03	22,96	17,78
0,43	120'	22,969	0,0718	0,2448	17,78	0,00	22,96	17,78
6	120'	22,969	0,0718	0,2448	18,28	24,06	22,96	17,78

hes21−2a j=2, L_t=300, L_{aj}=30, φ=120', B_a=17,78, B^*_{YT}=48,13, s_x=22,96, d_{xa}=17,78

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 30 cd/m²

$B^*_{YT}(L_T, L_r, L_r, \varphi) = [C_T(\varphi) L_T^n - B_r(L_r, \varphi)] B^*_{ra}$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_r(L_r,\varphi)$	B^*_{YT}	L_{Yt}	L_a/L_t
170	120'	22,969	0,0718	0,2448	34,60	149,99	0,91	68,40
107	120'	22,969	0,0718	0,2448	34,60	124,99	0,91	68,40
62	120'	22,969	0,0718	0,2448	34,60	99,99	0,91	68,40
32	120'	22,969	0,0718	0,2448	34,60	74,99	0,91	68,40
14	120'	22,969	0,0718	0,2448	34,60	49,99	0,91	68,40
4	120'	22,969	0,0718	0,2448	34,60	24,99	0,91	68,40
0,43	120'	22,969	0,0718	0,2448	34,60	0,00	0,91	68,40
14	120'	22,969	0,0718	0,2448	35,53	49,99	0,91	68,40

hes21−3a j=2, L_t=300, L_{aj}=30, φ=120', B_r=34,60, B^*_{YT}=65,07

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 30 cd/m²

$B^*_{YT}(L_T, L_r, \varphi) = s_{yra}(\varphi) L_T^n - d_{yra}(\varphi)$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
170	120'	22,969	0,0718	0,2448	34,60	149,99	47,71	36,95
107	120'	22,969	0,0718	0,2448	34,60	124,99	47,71	36,95
62	120'	22,969	0,0718	0,2448	34,60	99,99	47,71	36,95
32	120'	22,969	0,0718	0,2448	34,60	74,99	47,71	36,95
14	120'	22,969	0,0718	0,2448	34,60	49,99	47,71	36,95
4	120'	22,969	0,0718	0,2448	34,60	24,99	47,71	36,95
0,91	120'	22,969	0,0718	0,2448	34,60	0,00	47,71	36,95
14	120'	22,969	0,0718	0,2448	35,53	49,99	47,71	36,95

hes21−4a j=2, L_t=300, L_{aj}=30, φ=120', B_r=34,60, B^*_{YT}=65,07, s_{yra}=47,71, d_{yra}=36,95

hes20−3R_R

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

$B^*_{LT}(L_T, L_a, \varphi) = C_T(\varphi) L_T^n - B_a(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	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

hes20−5a j=1, L_t=300, L_{aj}=300, φ=120', B_a=34,60, B^*_{LT}=99,99

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

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi) L_T^n - d_{xa}(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	$s_x(\varphi)$	$d_{xa}(\varphi)$
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_t=300, L_{aj}=300, φ=120', B_a=34,60, B^*_{YT}=99,99, s_x=22,96, d_{xa}=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

$B^*_{YT}(L_T, L_r, L_r, \varphi) = [C_T(\varphi) L_T^n - B_r(L_r, \varphi)] B^*_{ra}$ 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	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

hes20−7a j=1, L_t=300, L_{aj}=300, φ=120', B_r=34,60, B^*_{YT}=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

$B^*_{YT}(L_T, L_r, \varphi) = s_{yra}(\varphi) L_T^n - d_{yra}(\varphi)$ 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

hes20−8a j=1, L_t=300, L_{aj}=300, φ=120', B_r=34,60, B^*_{YT}=99,99, s_{yra}=22,96, d_{yra}=34,60

hes20−3R_R

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 3 cd/m²

$B^*_{LT}(L_T, L_a, \varphi) = C_T(\varphi) L_T^n - B_a(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	L_{Lt}	L_a/L_t
7	120'	22,969	0,0718	0,2448	9,55	34,10	0,05	50,79
5	120'	22,969	0,0718	0,2448	9,55	28,41	0,05	50,79
2	120'	22,969	0,0718	0,2448	9,55	22,73	0,05	50,79
1	120'	22,969	0,0718	0,2448	9,55	17,05	0,05	50,79
0	120'	22,969	0,0718	0,2448	9,55	11,36	0,05	50,79
0	120'	22,969	0,0718	0,2448	9,55	5,68	0,05	50,79
0,05	120'	22,969	0,0718	0,2448	9,55	0,00	0,05	50,79
0	120'	22,969	0,0718	0,2448	9,83	11,36	0,05	50,79

hes21−5a j=3, L_t=300, L_{aj}=3, φ=120', B_a=9,55, B^*_{LT}=22,73

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 3 cd/m²

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi) L_T^n - d_{xa}(L_a, \varphi)$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_a(L_a,\varphi)$	B^*_{LT}	$s_x(\varphi)$	$d_{xa}(\varphi)$
7	120'	22,969	0,0718	0,2448	9,55	34,10	22,96	9,55
5	120'	22,969	0,0718	0,2448	9,55	28,41	22,96	9,55
2	120'	22,969	0,0718	0,2448	9,55	22,73	22,96	9,55
1	120'	22,969	0,0718	0,2448	9,55	17,05	22,96	9,55
0	120'	22,969	0,0718	0,2448	9,55	11,36	22,96	9,55
0	120'	22,969	0,0718	0,2448	9,55	5,68	22,96	9,55
0,05	120'	22,969	0,0718	0,2448	9,55	0,00	22,96	9,55
0	120'	22,969	0,0718	0,2448	9,83	11,36	22,96	9,55

hes21−6a j=3, L_t=300, L_{aj}=3, φ=120', B_a=9,55, B^*_{YT}=22,73, s_x=22,96, d_{xa}=9,55

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 3 cd/m²

$B^*_{YT}(L_T, L_r, L_r, \varphi) = [C_T(\varphi) L_T^n - B_r(L_r, \varphi)] B^*_{ra}$ 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	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_r(L_r,\varphi)$	B^*_{YT}	L_{Yt}	L_a/L_t
34	120'	22,969	0,0718	0,2448	34,60	149,99	0,25	50,79
22	120'	22,969	0,0718	0,2448	34,60	124,99	0,25	50,79
13	120'	22,969	0,0718	0,2448	34,60	99,99	0,25	50,79
7	120'	22,969	0,0718	0,2448	34,60	74,99	0,25	50,79
3	120'	22,969	0,0718	0,2448	34,60	49,99	0,25	50,79
1	120'	22,969	0,0718	0,2448	34,60	24,99	0,25	50,79
0,05	120'	22,969	0,0718	0,2448	34,60	0,00	0,25	50,79
3	120'	22,969	0,0718	0,2448	35,53	49,99	0,25	50,79

hes21−7a j=3, L_t=300, L_{aj}=3, φ=120', B_r=34,60, B^*_{YT}=−10,17

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a = 3 cd/m²

$B^*_{YT}(L_T, L_r, \varphi) = s_{yra}(\varphi) L_T^n - d_{yra}(\varphi)$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
34	120'	22,969	0,0718	0,2448	34,60	149,99	101,03	42,03
22	120'	22,969	0,0718	0,2448	34,60	124,99	101,03	42,03
13	120'	22,969	0,0718	0,2448	34,60	99,99	101,03	42,03
7	120'	22,969	0,0718	0,2448	34,60	74,99	101,03	42,03
3	120'	22,969	0,0718	0,2448	34,60	49,99	101,03	42,03
1	120'	22,969	0,0718	0,2448	34,60	24,99	101,03	42,03
0,25	120'	22,969	0,0718	0,2448	34,60	0,00	101,03	42,03
3	120'	22,969	0,0718	0,2448	35,53	49,99	101,03	42,03

hes21−8a j=3, L_t=300, L_{aj}=3, φ=120', B_r=34,60, B^*_{YT}=−10,17, s_{yra}=101,03, d_{yra}=42,03

hes20−3R_R

TUB-test chart hes2; HAULAB, scaling of achromatic colours in white surround of 180 degree, *Haubner* (1980), Adaptations L_{wa}=1500, 300, 30 & 3cd/m²; 7 test luminances for 120'