Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=1000 cd/m^2

$B^*_{LT}(L_T, L_a, \varphi) = C_T(\varphi)L_T^n - B_a(L_a, \varphi)$ 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
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	11,91	83,94
1000	120'	22,969	0,0718	0,2448	49,51	145,98	11,91	83,94
513	120'	22,969	0,0718	0,2448	49,51	109,49	11,91	83,94
221	120'	22,969	0,0718	0,2448	49,51	72,99	11,91	83,94
70	120'	22,969	0,0718	0,2448	49,51	36,49	11,91	83,94
11,91	120'	22,969	0,0718	0,2448	49,51	0,00	11,91	83,94
221	120'	22,969	0,0718	0,2448	50,82	72,99	11,91	83,94

hes60−1a j=0, L_r=300, L_{aj}=1000, φ=120', B_a=49,51, B^*_{LT}=145,98

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=1000 cd/m^2

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi)L_T^n - d_{xa}(L_a, \varphi)$ 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}	$s_x(\varphi)$	$d_{xa}(\varphi)$
2782	120'	22,969	0,0718	0,2448	49,51	218,98	22,96	49,51
1736	120'	22,969	0,0718	0,2448	49,51	182,48	22,96	49,51
1000	120'	22,969	0,0718	0,2448	49,51	145,98	22,96	49,51
513	120'	22,969	0,0718	0,2448	49,51	109,49	22,96	49,51
221	120'	22,969	0,0718	0,2448	49,51	72,99	22,96	49,51
70	120'	22,969	0,0718	0,2448	49,51	36,49	22,96	49,51
11,91	120'	22,969	0,0718	0,2448	49,51	0,00	22,96	49,51
221	120'	22,969	0,0718	0,2448	50,82	72,99	22,96	49,51

hes60−2a j=0, L_r=300, L_{aj}=1000, φ=120', B_a=49,51, B^*_{YT}=145,98, s_x=22,96, d_{xa}=49,51

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

$B^*_{YT}(L_T, L_r, L_r, \varphi) = [C_T(\varphi)L_T^n - B_r(L_r, \varphi)]B^*_{ra}$ 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
1906	120'	22,969	0,0718	0,2448	34,60	149,99	8,15	83,94
1189	120'	22,969	0,0718	0,2448	34,60	124,99	8,15	83,94
684	120'	22,969	0,0718	0,2448	34,60	99,99	8,15	83,94
351	120'	22,969	0,0718	0,2448	34,60	74,99	8,15	83,94
151	120'	22,969	0,0718	0,2448	34,60	49,99	8,15	83,94
48	120'	22,969	0,0718	0,2448	34,60	24,99	8,15	83,94
11,91	120'	22,969	0,0718	0,2448	34,60	0,00	8,15	83,94
151	120'	22,969	0,0718	0,2448	35,53	49,99	8,15	83,94

hes60−3a j=0, L_r=300, L_{aj}=1000, φ=120', B_r=34,60, B^*_{YT}=110,21

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

$B^*_{YT}(L_T, L_r, L_r, \varphi) = s_{yra}(\varphi)L_T^n - d_{yra}(\varphi)$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
1906	120'	22,969	0,0718	0,2448	34,60	149,99	15,73	33,91
1189	120'	22,969	0,0718	0,2448	34,60	124,99	15,73	33,91
684	120'	22,969	0,0718	0,2448	34,60	99,99	15,73	33,91
351	120'	22,969	0,0718	0,2448	34,60	74,99	15,73	33,91
151	120'	22,969	0,0718	0,2448	34,60	49,99	15,73	33,91
48	120'	22,969	0,0718	0,2448	34,60	24,99	15,73	33,91
8,15	120'	22,969	0,0718	0,2448	34,60	0,00	15,73	33,91
151	120'	22,969	0,0718	0,2448	35,53	49,99	15,73	33,91

hes60−4a j=0, L_r=300, L_{aj}=1000, φ=120', B_r=34,60, B^*_{YT}=110,21, s_{yra}=15,73, d_{yra}=33,9

hes60−3R_R

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=40 cd/m^2

$B^*_{LT}(L_T, L_a, \varphi) = C_T(\varphi)L_T^n - B_a(L_a, \varphi)$ 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
109	120'	22,969	0,0718	0,2448	19,29	79,16	0,56	70,18
68	120'	22,969	0,0718	0,2448	19,29	65,97	0,56	70,18
39	120'	22,969	0,0718	0,2448	19,29	52,77	0,56	70,18
20	120'	22,969	0,0718	0,2448	19,29	39,58	0,56	70,18
9	120'	22,969	0,0718	0,2448	19,29	26,38	0,56	70,18
3	120'	22,969	0,0718	0,2448	19,29	13,19	0,56	70,18
0,56	120'	22,969	0,0718	0,2448	19,29	0,00	0,56	70,18
9	120'	22,969	0,0718	0,2448	19,83	26,38	0,56	70,18

hes61−1a j=2, L_r=300, L_{aj}=40, φ=120', B_a=19,29, B^*_{LT}=52,77

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=40 cd/m^2

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi)L_T^n - d_{xa}(L_a, \varphi)$ 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}	$s_x(\varphi)$	$d_{xa}(\varphi)$
109	120'	22,969	0,0718	0,2448	19,29	79,16	22,96	19,29
68	120'	22,969	0,0718	0,2448	19,29	65,97	22,96	19,29
39	120'	22,969	0,0718	0,2448	19,29	52,77	22,96	19,29
20	120'	22,969	0,0718	0,2448	19,29	39,58	22,96	19,29
9	120'	22,969	0,0718	0,2448	19,29	26,38	22,96	19,29
3	120'	22,969	0,0718	0,2448	19,29	13,19	22,96	19,29
0,56	120'	22,969	0,0718	0,2448	19,29	0,00	22,96	19,29
9	120'	22,969	0,0718	0,2448	19,83	26,38	22,96	19,29

hes61−2a j=2, L_r=300, L_{aj}=40, φ=120', B_a=19,29, B^*_{YT}=52,77, s_x=22,96, d_{xa}=19,29

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=40 cd/m^2

$B^*_{YT}(L_T, L_r, L_r, \varphi) = [C_T(\varphi)L_T^n - B_r(L_r, \varphi)]B^*_{ra}$ 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
207	120'	22,969	0,0718	0,2448	34,60	149,99	1,07	70,18
130	120'	22,969	0,0718	0,2448	34,60	124,99	1,07	70,18
75	120'	22,969	0,0718	0,2448	34,60	99,99	1,07	70,18
39	120'	22,969	0,0718	0,2448	34,60	74,99	1,07	70,18
17	120'	22,969	0,0718	0,2448	34,60	49,99	1,07	70,18
5	120'	22,969	0,0718	0,2448	34,60	24,99	1,07	70,18
0,56	120'	22,969	0,0718	0,2448	34,60	0,00	1,07	70,18
17	120'	22,969	0,0718	0,2448	35,53	49,99	1,07	70,18

hes61−3a j=2, L_r=300, L_{aj}=40, φ=120', B_r=34,60, B^*_{YT}=70,99

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=40 cd/m^2

$B^*_{YT}(L_T, L_r, L_r, \varphi) = s_{yra}(\varphi)L_T^n - d_{yra}(\varphi)$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
207	120'	22,969	0,0718	0,2448	34,60	149,99	43,51	36,55
130	120'	22,969	0,0718	0,2448	34,60	124,99	43,51	36,55
75	120'	22,969	0,0718	0,2448	34,60	99,99	43,51	36,55
39	120'	22,969	0,0718	0,2448	34,60	74,99	43,51	36,55
17	120'	22,969	0,0718	0,2448	34,60	49,99	43,51	36,55
5	120'	22,969	0,0718	0,2448	34,60	24,99	43,51	36,55
1,07	120'	22,969	0,0718	0,2448	34,60	0,00	43,51	36,55
17	120'	22,969	0,0718	0,2448	35,53	49,99	43,51	36,55

hes61−4a j=2, L_r=300, L_{aj}=40, φ=120', B_r=34,60, B^*_{YT}=70,99, s_{yra}=43,51, d_{yra}=36,55

hes60−3R_R

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=200 cd/m^2

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

hes60−5a j=1, L_r=300, L_{aj}=200, φ=120', B_a=30,71, B^*_{LT}=87,99

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=200 cd/m^2

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi)L_T^n - d_{xa}(L_a, \varphi)$ 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}	$s_x(\varphi)$	$d_{xa}(\varphi)$
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

hes60−6a j=1, L_r=300, L_{aj}=200, φ=120', B_a=30,71, B^*_{YT}=87,99, s_x=22,96, d_{xa}=30,71

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=200 cd/m^2

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

hes60−7a j=1, L_r=300, L_{aj}=200, φ=120', B_r=34,60, B^*_{YT}=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/m^2

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

hes60−8a j=1, L_r=300, L_{aj}=200, φ=120', B_r=34,60, B^*_{YT}=95,57, s_{yra}=26,10, d_{yra}=34,90

hes60−3R_R

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=8 cd/m^2

$B^*_{LT}(L_T, L_a, \varphi) = C_T(\varphi)L_T^n - B_a(L_a, \varphi)$ 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
21	120'	22,969	0,0718	0,2448	12,36	47,09	0,13	58,98
13	120'	22,969	0,0718	0,2448	12,36	39,24	0,13	58,98
8	120'	22,969	0,0718	0,2448	12,36	31,39	0,13	58,98
4	120'	22,969	0,0718	0,2448	12,36	23,54	0,13	58,98
1	120'	22,969	0,0718	0,2448	12,36	15,69	0,13	58,98
0	120'	22,969	0,0718	0,2448	12,36	7,84	0,13	58,98
0,13	120'	22,969	0,0718	0,2448	12,36	0,00	0,13	58,98
1	120'	22,969	0,0718	0,2448	12,71	15,69	0,13	58,98

hes61−5a j=3, L_r=300, L_{aj}=8, φ=120', B_a=12,36, B^*_{LT}=31,39

Relationship brightness B^*_{LT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=8 cd/m^2

$B^*_{LT}(L_T, L_a, \varphi) = s_x(\varphi)L_T^n - d_{xa}(L_a, \varphi)$ 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}	$s_x(\varphi)$	$d_{xa}(\varphi)$
21	120'	22,969	0,0718	0,2448	12,36	47,09	22,96	12,36
13	120'	22,969	0,0718	0,2448	12,36	39,24	22,96	12,36
8	120'	22,969	0,0718	0,2448	12,36	31,39	22,96	12,36
4	120'	22,969	0,0718	0,2448	12,36	23,54	22,96	12,36
1	120'	22,969	0,0718	0,2448	12,36	15,69	22,96	12,36
0	120'	22,969	0,0718	0,2448	12,36	7,84	22,96	12,36
0,13	120'	22,969	0,0718	0,2448	12,36	0,00	22,96	12,36
1	120'	22,969	0,0718	0,2448	12,71	15,69	22,96	12,36

hes61−6a j=3, L_r=300, L_{aj}=8, φ=120', B_a=12,36, B^*_{YT}=31,39, s_x=22,96, d_{xa}=12,36

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=8 cd/m^2

$B^*_{YT}(L_T, L_r, L_r, \varphi) = [C_T(\varphi)L_T^n - B_r(L_r, \varphi)]B^*_{ra}$ 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
68	120'	22,969	0,0718	0,2448	34,60	149,99	0,43	58,98
43	120'	22,969	0,0718	0,2448	34,60	124,99	0,43	58,98
25	120'	22,969	0,0718	0,2448	34,60	99,99	0,43	58,98
13	120'	22,969	0,0718	0,2448	34,60	74,99	0,43	58,98
6	120'	22,969	0,0718	0,2448	34,60	49,99	0,43	58,98
2	120'	22,969	0,0718	0,2448	34,60	24,99	0,43	58,98
0,13	120'	22,969	0,0718	0,2448	34,60	0,00	0,43	58,98
6	120'	22,969	0,0718	0,2448	35,53	49,99	0,43	58,98

hes61−7a j=3, L_r=300, L_{aj}=8, φ=120', B_r=34,60, B^*_{YT}=29,17

Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance L_a=8 cd/m^2

$B^*_{YT}(L_T, L_r, L_r, \varphi) = s_{yra}(\varphi)L_T^n - d_{yra}(\varphi)$ 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}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
68	120'	22,969	0,0718	0,2448	34,60	149,99	73,15	39,37
43	120'	22,969	0,0718	0,2448	34,60	124,99	73,15	39,37
25	120'	22,969	0,0718	0,2448	34,60	99,99	73,15	39,37
13	120'	22,969	0,0718	0,2448	34,60	74,99	73,15	39,37
6	120'	22,969	0,0718	0,2448	34,60	49,99	73,15	39,37
2	120'	22,969	0,0718	0,2448	34,60	24,99	73,15	39,37
0,43	120'	22,969	0,0718	0,2448	34,60	0,00	73,15	39,37
6	120'	22,969	0,0718	0,2448	35,53	49,99	73,15	39,37

hes61−8a j=3, L_r=300, L_{aj}=8, φ=120', B_r=34,60, B^*_{YT}=29,17, s_{yra}=73,15, d_{yra}=39,37

hes60−3R_R

TUB-test chart hes6; HAULAB, scaling of achromatic colours in white surround of 180 degree,
Haubner (1980), Adaptations L_{wa}=1000, 200, 40 & 8cd/m^2; 7 test luminances for 120'