

| Relationship brightness B_{LT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=1500$ 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 |
| 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, $L_r=300$, $L_{aj}=3000$, $\varphi=120^\circ$, $B_a=68,92$, $B_{LT}^*=205,89$

| Relationship brightness B_{LT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=1500$ cd/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}^* | $s_x(\varphi)$ | $d_{xa}(\varphi)$ |
| 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, $L_r=300$, $L_{aj}=3000$, $\varphi=120^\circ$, $B_a=68,92$, $B_{VT}^*=205,89$, $s_x=22,96$, $d_{xa}=68,92$

| Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=1500$ cd/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 |
| 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, $L_r=300$, $L_{aj}=3000$, $\varphi=120^\circ$, $B_r=34,60$, $B_{YT}^*=116,67$

hes20-3R_R

| Relationship brightness B_{YT}^* and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a=1500$ 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}^* | $s_{yra}(\varphi)$ | $d_{yra}(\varphi)$ |
| 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, $L_r=300$, $L_{aj}=3000$, $\varphi=120^\circ$, $B_r=34,60$, $B_{YT}^*=116,67$, $s_{yra}=11,15$, $d_{yra}=33,47$