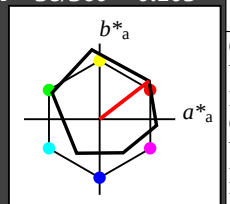
**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h* = lab*h = 38/360 = 0.105***
***lab*tch* und *lab*nch***

**D65: Buntton O**
**LCH*Ma: 48 83 38**
**olv*Ma: 1.0 0.0 0.0**

**Dreiecks-Helligkeit *t****




**ORS18; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

**%Umfang**
**u*rel = 93**
**%Regularität**
**g*H,rel = 57**
**g*C,rel = 59**

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 95.41 | 0.0 | 0.0 |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 |
| *LAB*TCHa* | 99.99 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 1.0 | 0.0 | 0.0 |
| *lab*tch* | 1.0 | 0.0 | – |
| *lab*nch* | 0.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 1.0 | 0.0 | 0.0 |
| *lab*tce* | 1.0 | 0.0 | – |
| *lab*ncE* | 0.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 |
| *LAB*TCHa* | 50.0 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | 0.0 |
| *lab*tch* | 0.5 | 0.0 | – |
| *lab*nch* | 0.5 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.0 | 0.0 |
| *lab*tce* | 0.5 | 0.0 | – |
| *lab*ncE* | 0.5 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 0.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 1.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 |
| *LAB*TCHa* | 0.01 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.0 | 0.0 | 0.0 |
| *lab*tch* | 0.0 | 0.0 | – |
| *lab*nch* | 1.0 | 0.0 | – |

***relative* Natural Colour (NC)**

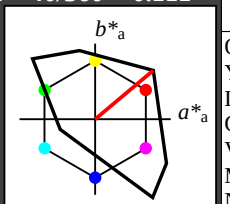
| | | | |
|---|---|---|---|
| *lab*lrj* | 0.0 | 0.0 | 0.0 |
| *lab*tce* | 0.0 | 0.0 | – |
| *lab*ncE* | 1.0 | 0.0 | – |

*n** = 0,00
**Schwarzheit *n****
0,25 0,50 *n** = 0,50 0,75 1,00
**relative Buntheit *c****
*n** = 1,0

**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h* = lab*h = 40/360 = 0.111***
***lab*tch* und *lab*nch***

**D65: Buntton O**
**LCH*Ma: 51 100 40**
**olv*Ma: 1.0 0.0 0.0**

**Dreiecks-Helligkeit *t****




**TLS00; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Umfang**
**u*rel = 158**
**%Regularität**
**g*H,rel = 20**
**g*C,rel = 37**

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 95.41 | 0.0 | 0.0 |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 |
| *LAB*TCHa* | 99.99 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 1.0 | 0.0 | 0.0 |
| *lab*tch* | 1.0 | 0.0 | – |
| *lab*nch* | 0.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 1.0 | 0.0 | 0.0 |
| *lab*tce* | 1.0 | 0.0 | – |
| *lab*ncE* | 0.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 0.0 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.5 | 1.0 |
| *cmyn4** | 0.0 | 0.5 | 0.5 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 72.95 | 38.45 | 32.27 |
| *LAB*LABa* | 72.95 | 38.45 | 32.27 |
| *LAB*TCHa* | 75.0 | 50.2 | 40.0 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.765 | 0.383 | 0.321 |
| *lab*tch* | 0.75 | 0.5 | 0.111 |
| *lab*nch* | 0.0 | 0.5 | 0.111 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.765 | 0.471 | 0.167 |
| *lab*tce* | 0.75 | 0.5 | 0.054 |
| *lab*ncE* | 0.0 | 0.5 | r21j |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.0 | 0.0 | (1.0) |
| *cmyn3** | 0.5 | 1.0 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.5 | 0.5 |
| *cmyn4** | 0.0 | 0.5 | 0.5 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 25.26 | 38.45 | 32.27 |
| *LAB*LABa* | 25.26 | 38.45 | 32.27 |
| *LAB*TCHa* | 25.01 | 50.2 | 40.0 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.265 | 0.383 | 0.321 |
| *lab*tch* | 0.25 | 0.5 | 0.111 |
| *lab*nch* | 0.5 | 0.5 | 0.111 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.265 | 0.471 | 0.167 |
| *lab*tce* | 0.25 | 0.5 | 0.054 |
| *lab*ncE* | 0.5 | 0.5 | r21j |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 0.0 | 0.0 | (1.0) |
| *cmyn3** | 0.0 | 1.0 | 1.0 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 1.0 | 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 50.5 | 76.9 | 64.54 |
| *LAB*LABa* | 50.5 | 76.9 | 64.54 |
| *LAB*TCHa* | 50.0 | 100.4 | 40.0 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.529 | 0.766 | 0.643 |
| *lab*tch* | 0.5 | 1.0 | 0.111 |
| *lab*nch* | 0.0 | 1.0 | 0.111 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.529 | 0.942 | 0.335 |
| *lab*tce* | 0.5 | 1.0 | 0.054 |
| *lab*ncE* | 0.0 | 1.0 | r21j |

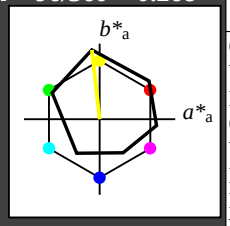
*n** = 0,00
**Schwarzheit *n****
0,25 0,50 *n** = 0,50 0,75 1,00
**relative Buntheit *c****
*n** = 1,0

NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (links)
3 stufige Reihen für konstanten CIELAB Buntton 40/360 = 0.111 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h* = lab*h = 96/360 = 0.268***
***lab*tch* und *lab*nch***

**D65: Buntton Y**
**LCH*Ma: 90 92 96**
**olv*Ma: 1.0 1.0 0.0**

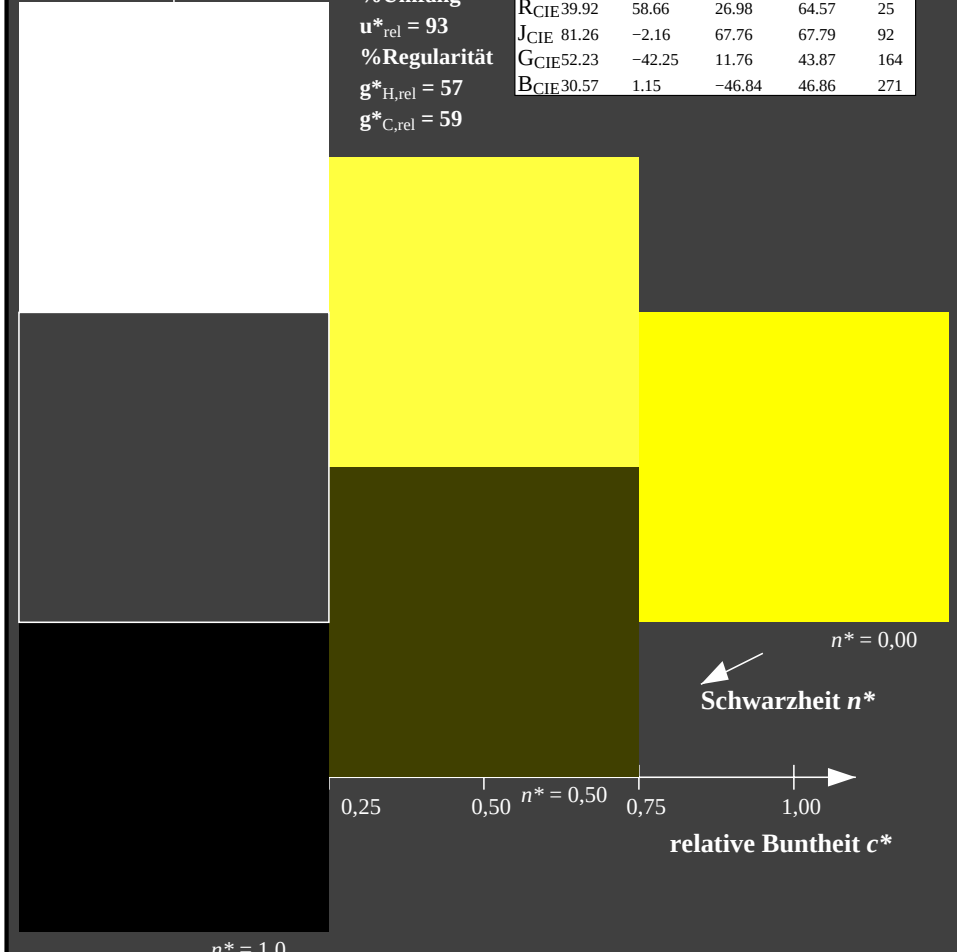
**Dreiecks-Helligkeit *t****




**ORS18; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

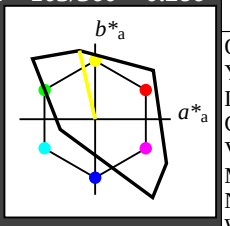
**%Umfang**
**u*$_{rel}$ = 93**
**%Regularität**
**g*$_{H,rel}$ = 57**
**g*$_{C,rel}$ = 59**




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h* = lab*h = 103/360 = 0.286***
***lab*tch* und *lab*nch***

**D65: Buntton Y**
**LCH*Ma: 93 93 103**
**olv*Ma: 1.0 1.0 0.0**

**Dreiecks-Helligkeit *t****




**TLS00; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Umfang**
**u*$_{rel}$ = 158**
**%Regularität**
**g*$_{H,rel}$ = 20**
**g*$_{C,rel}$ = 37**

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 95.41 | 0.0 | 0.0 |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 |
| *LAB*TCHa* | 99.99 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 1.0 | 0.0 | 0.0 |
| *lab*tch* | 1.0 | 0.0 | – |
| *lab*nch* | 0.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 1.0 | 0.0 | 0.0 |
| *lab*tce* | 1.0 | 0.0 | – |
| *lab*ncE* | 0.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 |
| *LAB*TCHa* | 50.0 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | 0.0 |
| *lab*tch* | 0.5 | 0.0 | – |
| *lab*nch* | 0.5 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.0 | 0.0 |
| *lab*tce* | 0.5 | 0.0 | – |
| *lab*ncE* | 0.5 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.0 | 0.0 | 0.0 (1.0) |
| *cmyn3** | 1.0 | 1.0 | 1.0 (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 1.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 |
| *LAB*TCHa* | 0.01 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.0 | 0.0 | 0.0 |
| *lab*tch* | 0.0 | 0.0 | – |
| *lab*nch* | 1.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.0 | 0.0 | 0.0 |
| *lab*tce* | 0.0 | 0.0 | – |
| *lab*ncE* | 1.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 0.5 (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.5 (0.0) |
| *olvi4** | 1.0 | 1.0 | 0.5 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.5 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 94.03 | −10.34 | 45.37 |
| *LAB*LABa* | 94.03 | −10.34 | 45.37 |
| *LAB*TCHa* | 75.0 | 46.53 | 102.85 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.985 | −0.11 | 0.487 |
| *lab*tch* | 0.75 | 0.5 | 0.286 |
| *lab*nch* | 0.0 | 0.5 | 0.286 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.985 | −0.116 | 0.486 |
| *lab*tce* | 0.75 | 0.5 | 0.288 |
| *lab*ncE* | 0.0 | 0.5 | j15g |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.0 (1.0) |
| *cmyn3** | 0.5 | 0.5 | 1.0 (0.0) |
| *olvi4** | 1.0 | 1.0 | 0.5 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.5 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 46.34 | −10.34 | 45.37 |
| *LAB*LABa* | 46.34 | −10.34 | 45.37 |
| *LAB*TCHa* | 25.01 | 46.53 | 102.85 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.486 | −0.11 | 0.487 |
| *lab*tch* | 0.25 | 0.5 | 0.286 |
| *lab*nch* | 0.5 | 0.5 | 0.286 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.486 | −0.116 | 0.486 |
| *lab*tce* | 0.25 | 0.5 | 0.288 |
| *lab*ncE* | 0.5 | 0.5 | j15g |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 0.0 (1.0) |
| *cmyn3** | 0.0 | 0.0 | 1.0 (0.0) |
| *olvi4** | 1.0 | 1.0 | 0.0 1.0 |
| *cmyn4** | 0.0 | 0.0 | 1.0 0.0 |

***standard* and *adapted* CIELAB**

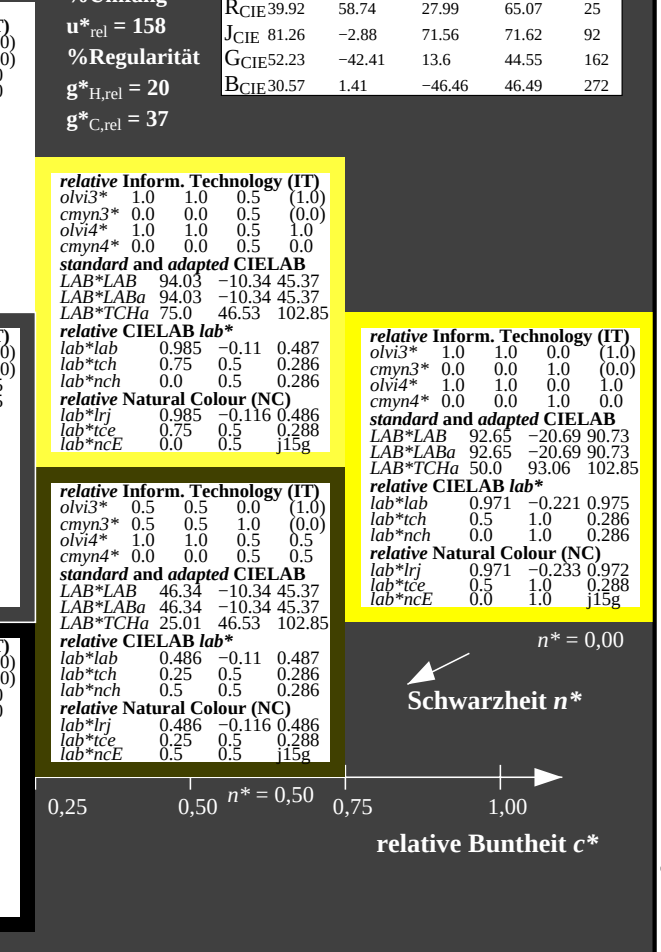
| | | | |
|---|---|---|---|
| *LAB*LAB* | 92.65 | −20.69 | 90.73 |
| *LAB*LABa* | 92.65 | −20.69 | 90.73 |
| *LAB*TCHa* | 50.0 | 93.06 | 102.85 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.971 | −0.221 | 0.975 |
| *lab*tch* | 0.5 | 1.0 | 0.286 |
| *lab*nch* | 0.0 | 1.0 | 0.286 |

***relative* Natural Colour (NC)**

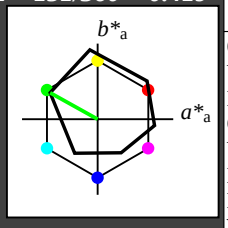
| | | | |
|---|---|---|---|
| *lab*lrj* | 0.971 | −0.233 | 0.972 |
| *lab*tce* | 0.5 | 1.0 | 0.288 |
| *lab*ncE* | 0.0 | 1.0 | j15g |




NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (links)
3 stufige Reihen für konstanten CIELAB Buntton 103/360 = 0.286 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h* = lab*h = 151/360 = 0.419***
***lab*tch* und *lab*nch***

**D65: Buntton L**
**LCH*Ma: 51 72 151**
**olv*Ma: 0.0 1.0 0.0**




**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

**Dreiecks-Helligkeit *t****

**%Umfang**
**$u^*_{rel}$ = 93**
**%Regularität**
**$g^*_{H,rel}$ = 57**
**$g^*_{C,rel}$ = 59**

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 95.41 | 0.0 | 0.0 |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 |
| *LAB*TCHa* | 99.99 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 1.0 | 0.0 | 0.0 |
| *lab*tch* | 1.0 | 0.0 | – |
| *lab*nch* | 0.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 1.0 | 0.0 | 0.0 |
| *lab*tce* | 1.0 | 0.0 | – |
| *lab*ncE* | 0.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 |
| *LAB*TCHa* | 50.0 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | 0.0 |
| *lab*tch* | 0.5 | 0.0 | – |
| *lab*nch* | 0.5 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.0 | 0.0 |
| *lab*tce* | 0.5 | 0.0 | – |
| *lab*ncE* | 0.5 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.0 | 0.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 1.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 |
| *LAB*TCHa* | 0.01 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.0 | 0.0 | 0.0 |
| *lab*tch* | 0.0 | 0.0 | – |
| *lab*nch* | 1.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.0 | 0.0 | 0.0 |
| *lab*tce* | 0.0 | 0.0 | – |
| *lab*ncE* | 1.0 | 0.0 | – |

$n^* = 0{,}00$

**Schwarzheit *n****

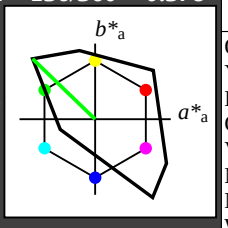
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

**relative Buntheit *c****

$n^* = 1{,}0$

**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h* = lab*h = 136/360 = 0.378***
***lab*tch* und *lab*nch***

**D65: Buntton L**
**LCH*Ma: 84 115 136**
**olv*Ma: 0.0 1.0 0.0**




**TLS00; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**Dreiecks-Helligkeit *t****

**%Umfang**
**$u^*_{rel}$ = 158**
**%Regularität**
**$g^*_{H,rel}$ = 20**
**$g^*_{C,rel}$ = 37**

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 95.41 | 0.0 | 0.0 |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 |
| *LAB*TCHa* | 99.99 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 1.0 | 0.0 | 0.0 |
| *lab*tch* | 1.0 | 0.0 | – |
| *lab*nch* | 0.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 1.0 | 0.0 | 0.0 |
| *lab*tce* | 1.0 | 0.0 | – |
| *lab*ncE* | 0.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 |
| *LAB*TCHa* | 50.0 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | 0.0 |
| *lab*tch* | 0.5 | 0.0 | – |
| *lab*nch* | 0.5 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.0 | 0.0 |
| *lab*tce* | 0.5 | 0.0 | – |
| *lab*ncE* | 0.5 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.0 | 0.5 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 0.5 | 1.0 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.5 | 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.5 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 41.82 | −41.36 | 39.94 |
| *LAB*LABa* | 41.82 | −41.36 | 39.94 |
| *LAB*TCHa* | 25.01 | 57.51 | 136.01 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.438 | −0.359 | 0.347 |
| *lab*tch* | 0.25 | 0.5 | 0.378 |
| *lab*nch* | 0.5 | 0.5 | 0.378 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.438 | −0.415 | 0.278 |
| *lab*tce* | 0.25 | 0.5 | 0.406 |
| *lab*ncE* | 0.5 | 0.5 | j62g |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.0 | 1.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 0.0 | 1.0 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 0.0 | 1.0 |
| *cmyn4** | 1.0 | 0.0 | 1.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 83.62 | −82.73 | 79.88 |
| *LAB*LABa* | 83.62 | −82.73 | 79.88 |
| *LAB*TCHa* | 50.0 | 115.01 | 136.01 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.876 | −0.718 | 0.694 |
| *lab*tch* | 0.5 | 1.0 | 0.378 |
| *lab*nch* | 0.0 | 1.0 | 0.378 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.876 | −0.83 | 0.555 |
| *lab*tce* | 0.5 | 1.0 | 0.406 |
| *lab*ncE* | 0.0 | 1.0 | j62g |

$n^* = 0{,}00$

**Schwarzheit *n****

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

**relative Buntheit *c****

$n^* = 1{,}0$

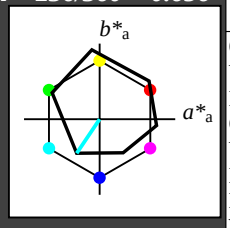
NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (links)

3 stufige Reihen für konstanten CIELAB Buntton 136/360 = 0.378 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h* = lab*h = 236/360 = 0.656***
***lab*tch* und *lab*nch***

**D65: Buntton C**
**LCH*Ma: 59 54 236**
**olv*Ma: 0.0 1.0 1.0**

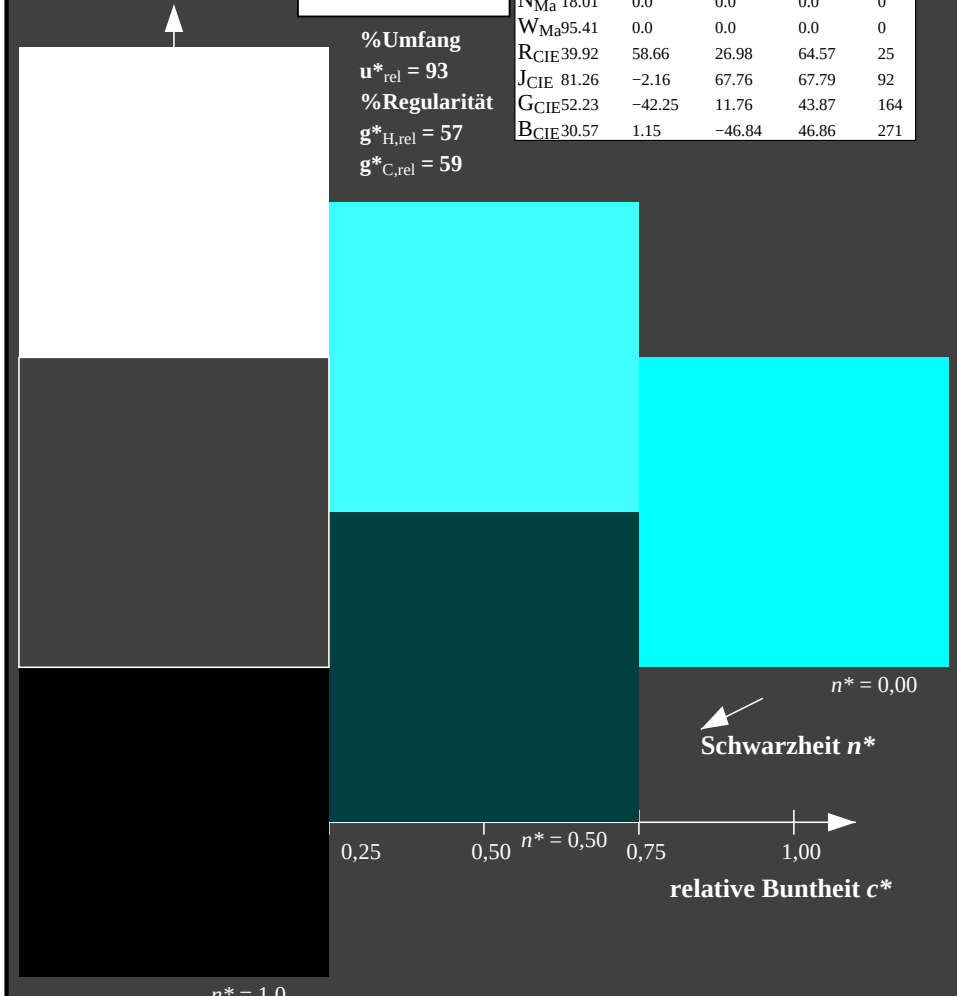
**Dreiecks-Helligkeit *t****




**ORS18; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

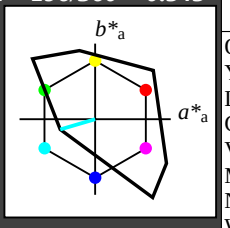
**%Umfang**
**u*rel = 93**
**%Regularität**
**g*H,rel = 57**
**g*C,rel = 59**




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h* = lab*h = 196/360 = 0.545***
***lab*tch* und *lab*nch***

**D65: Buntton C**
**LCH*Ma: 87 48 196**
**olv*Ma: 0.0 1.0 1.0**

**Dreiecks-Helligkeit *t****




**TLS00; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Umfang**
**u*rel = 158**
**%Regularität**
**g*H,rel = 20**
**g*C,rel = 37**

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 95.41 | 0.0 | 0.0 | |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 | |
| *LAB*TCHa* | 99.99 | 0.01 | – | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 1.0 | 0.0 | 0.0 | |
| *lab*tch* | 1.0 | 0.0 | – | |
| *lab*nch* | 0.0 | 0.0 | – | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 1.0 | 0.0 | 0.0 | |
| *lab*tce* | 1.0 | 0.0 | – | |
| *lab*ncE* | 0.0 | 0.0 | – | |

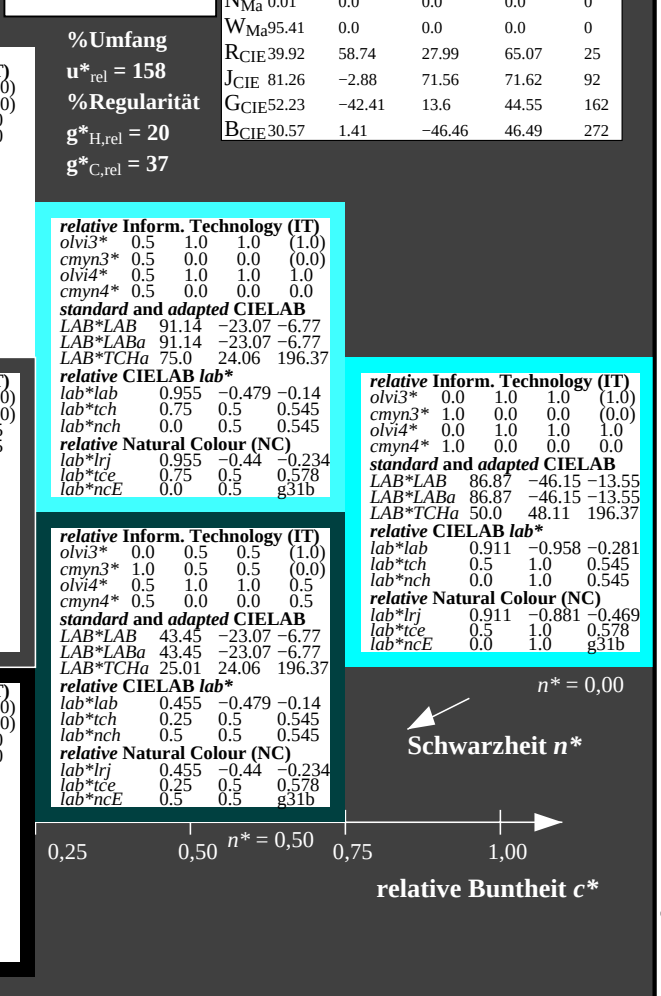
| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 47.72 | 0.0 | 0.0 | |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 | |
| *LAB*TCHa* | 50.0 | 0.01 | – | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.5 | 0.0 | 0.0 | |
| *lab*tch* | 0.5 | 0.0 | – | |
| *lab*nch* | 0.5 | 0.0 | – | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.5 | 0.0 | 0.0 | |
| *lab*tce* | 0.5 | 0.0 | – | |
| *lab*ncE* | 0.5 | 0.0 | – | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 0.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 1.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 0.03 | 0.0 | 0.0 | |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 | |
| *LAB*TCHa* | 0.01 | 0.01 | – | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.0 | 0.0 | 0.0 | |
| *lab*tch* | 0.0 | 0.0 | – | |
| *lab*nch* | 1.0 | 0.0 | – | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.0 | 0.0 | 0.0 | |
| *lab*tce* | 0.0 | 0.0 | – | |
| *lab*ncE* | 1.0 | 0.0 | – | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 91.14 | −23.07 | −6.77 | |
| *LAB*LABa* | 91.14 | −23.07 | −6.77 | |
| *LAB*TCHa* | 75.0 | 24.06 | 196.37 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.955 | −0.479 | −0.14 | |
| *lab*tch* | 0.75 | 0.5 | 0.545 | |
| *lab*nch* | 0.0 | 0.5 | 0.545 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.955 | −0.44 | −0.234 | |
| *lab*tce* | 0.75 | 0.5 | 0.578 | |
| *lab*ncE* | 0.0 | 0.5 | g31b | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 1.0 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 1.0 | 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.0 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 43.45 | −23.07 | −6.77 | |
| *LAB*LABa* | 43.45 | −23.07 | −6.77 | |
| *LAB*TCHa* | 25.01 | 24.06 | 196.37 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.455 | −0.479 | −0.14 | |
| *lab*tch* | 0.25 | 0.5 | 0.545 | |
| *lab*nch* | 0.5 | 0.5 | 0.545 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.455 | −0.44 | −0.234 | |
| *lab*tce* | 0.25 | 0.5 | 0.578 | |
| *lab*ncE* | 0.5 | 0.5 | g31b | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 1.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 1.0 | 0.0 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 86.87 | −46.15 | −13.55 | |
| *LAB*LABa* | 86.87 | −46.15 | −13.55 | |
| *LAB*TCHa* | 50.0 | 48.11 | 196.37 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.911 | −0.958 | −0.281 | |
| *lab*tch* | 0.5 | 1.0 | 0.545 | |
| *lab*nch* | 0.0 | 1.0 | 0.545 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.911 | −0.881 | −0.469 | |
| *lab*tce* | 0.5 | 1.0 | 0.578 | |
| *lab*ncE* | 0.0 | 1.0 | g31b | |



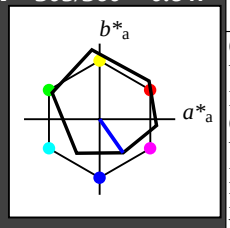

NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links)
3 stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.545 (rechts)

BAM-Prüfvorlage NG00; Farbmetrik-Systeme ORS18 & TLS00 input: *olv* setrgbcolor*
D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: *olv* setrgbcolor / w* setgray*

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h** = lab*h = 305/360 = 0.847**
***lab*tch* und *lab*nch***

**D65: Buntton V**
**LCH*Ma: 26 54 305**
**olv*Ma: 0.0 0.0 1.0**

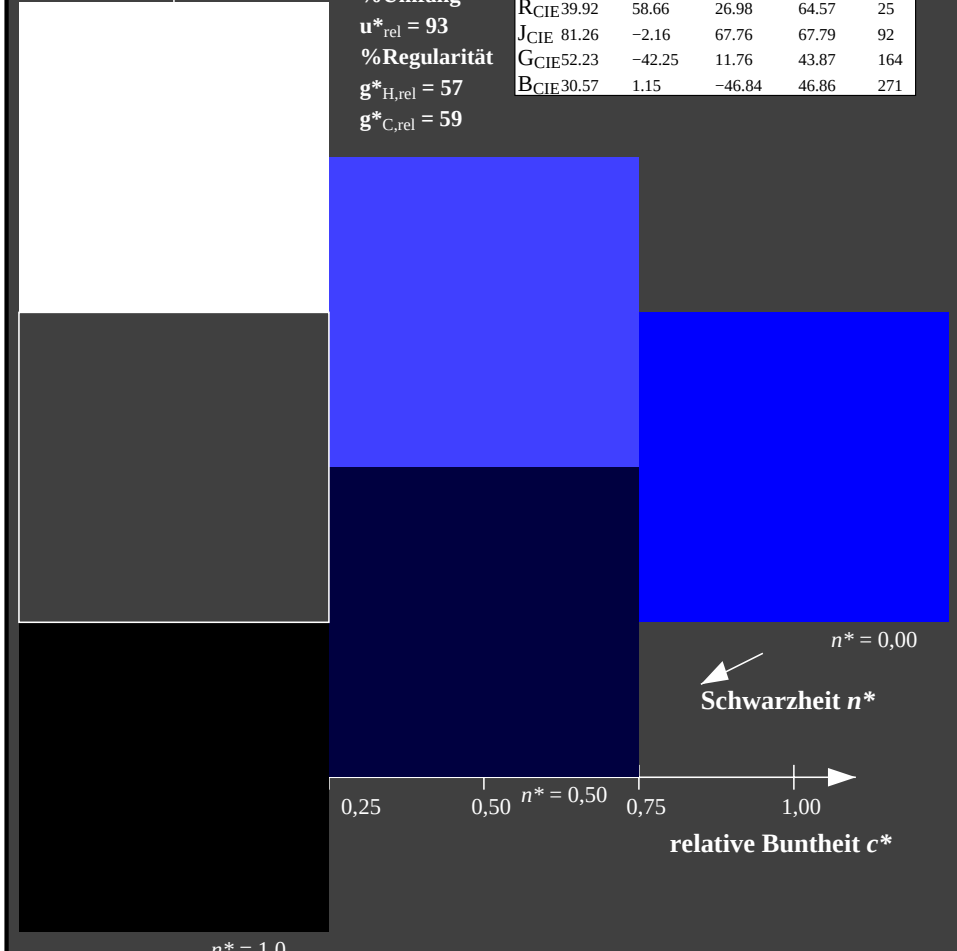
**Dreiecks-Helligkeit *t****




**%Umfang**
**$u^*_{rel}$ = 93**
**%Regularität**
**$g^*_{H,rel}$ = 57**
**$g^*_{C,rel}$ = 59**

**ORS18; adaptierte CIELAB-Daten**

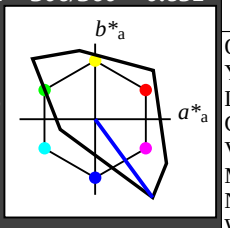
| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h** = lab*h = 306/360 = 0.851**
***lab*tch* und *lab*nch***

**D65: Buntton V**
**LCH*Ma: 30 129 306**
**olv*Ma: 0.0 0.0 1.0**

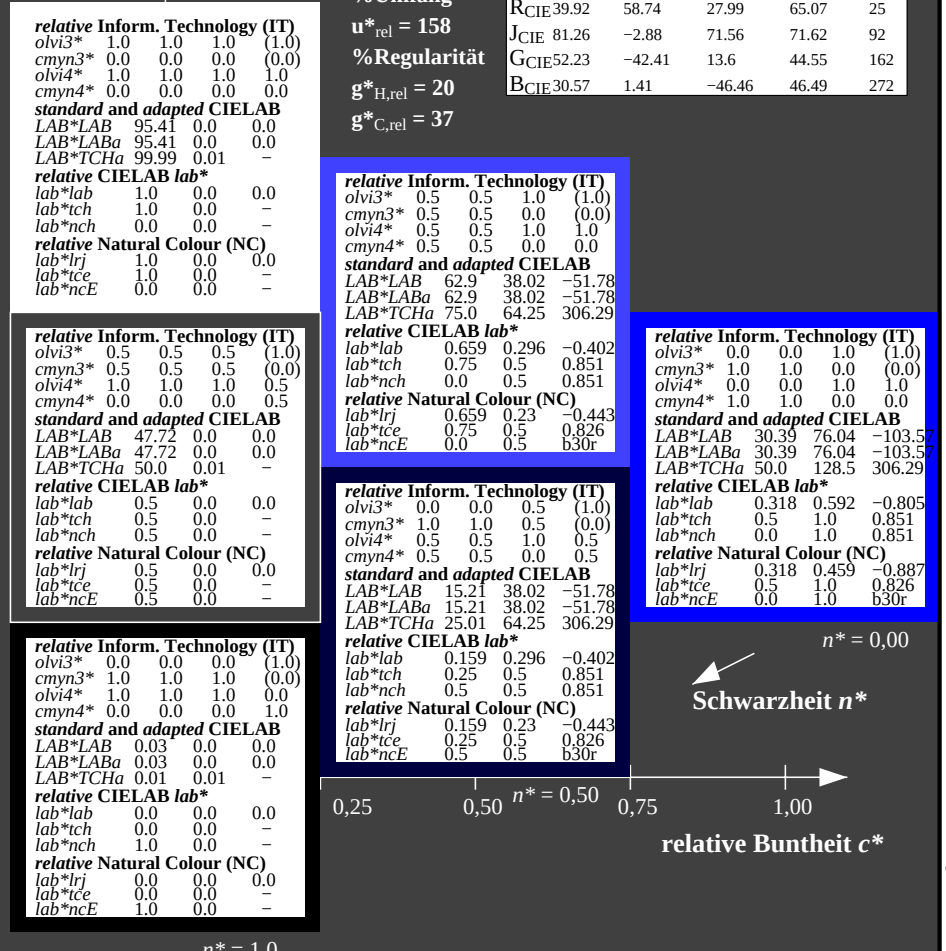
**Dreiecks-Helligkeit *t****




**%Umfang**
**$u^*_{rel}$ = 158**
**%Regularität**
**$g^*_{H,rel}$ = 20**
**$g^*_{C,rel}$ = 37**

**TLS00; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

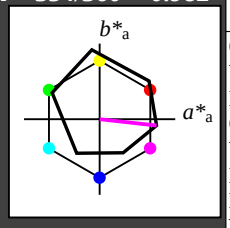



NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (links)

3 stufige Reihen für konstanten CIELAB Buntton 306/360 = 0.851 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h* = lab*h = 354/360 = 0.982***
***lab*tch* und *lab*nch***

**D65: Buntton M**
**LCH*Ma: 48 76 354**
**olv*Ma: 1.0 0.0 1.0**

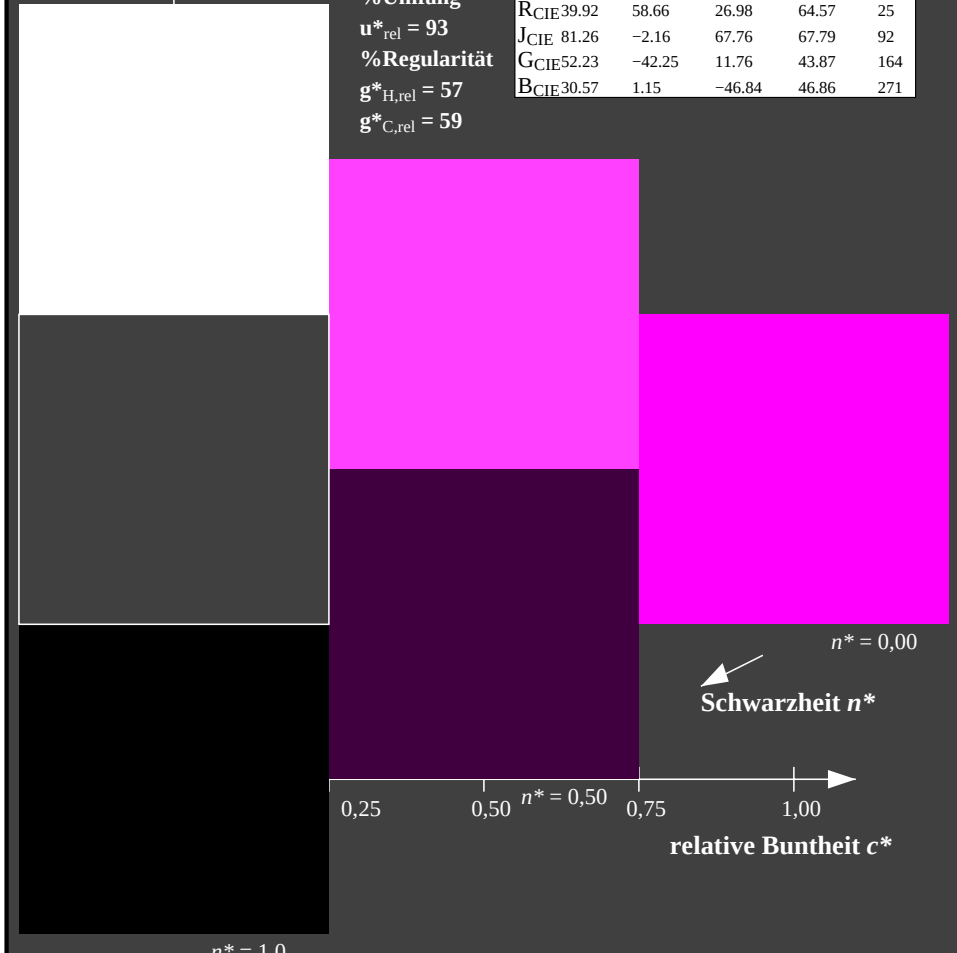



**ORS18; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

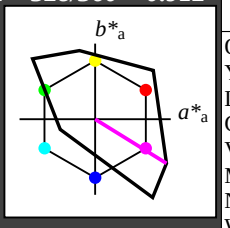
**Dreiecks-Helligkeit *t****

**%Umfang**
**$u^*_{rel}$ = 93**
**%Regularität**
**$g^*_{H,rel}$ = 57**
**$g^*_{C,rel}$ = 59**




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h* = lab*h = 328/360 = 0.912***
***lab*tch* und *lab*nch***

**D65: Buntton M**
**LCH*Ma: 57 111 328**
**olv*Ma: 1.0 0.0 1.0**

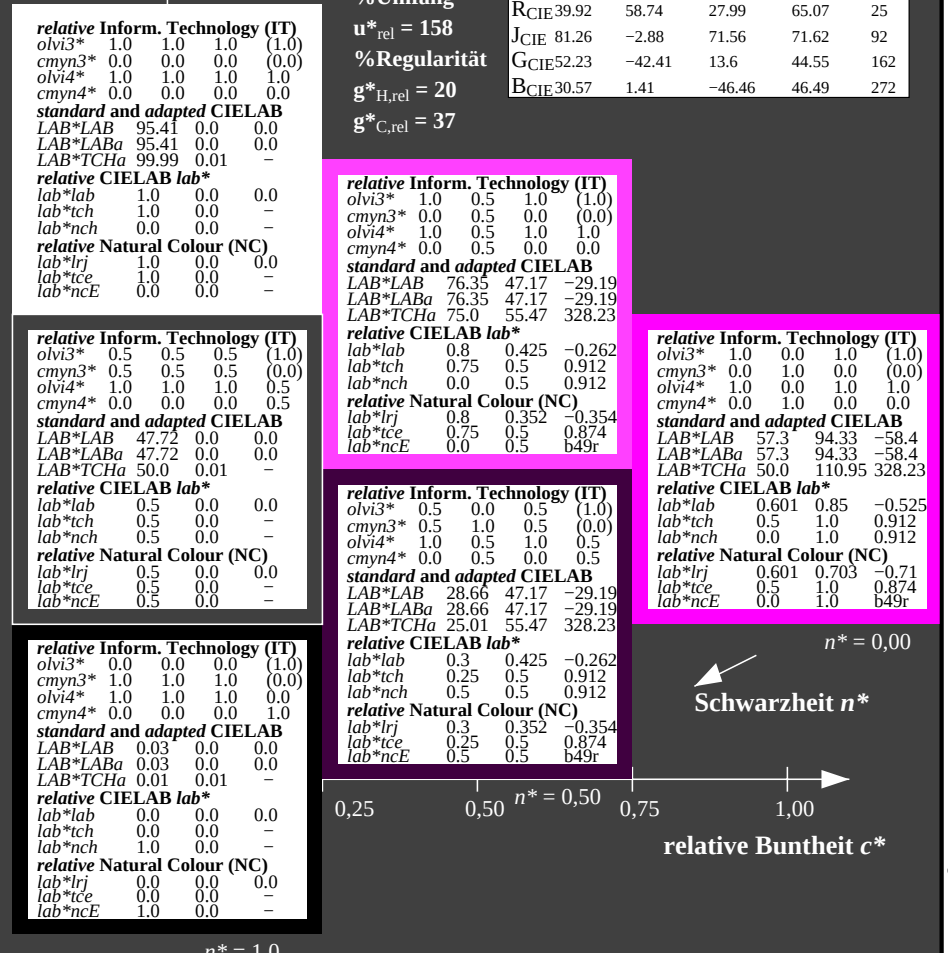



**TLS00; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**Dreiecks-Helligkeit *t****

**%Umfang**
**$u^*_{rel}$ = 158**
**%Regularität**
**$g^*_{H,rel}$ = 20**
**$g^*_{C,rel}$ = 37**

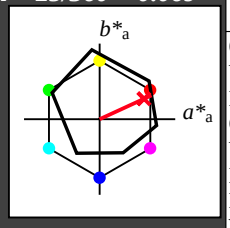



NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (links)
3 stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.912 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h* = lab*h = 25/360 = 0.069***
***lab*tch* und *lab*nch***

**D65: Buntton R**
**LCH*Ma: 48 75 25**
**olv*Ma: 1.0 0.0 0.32**

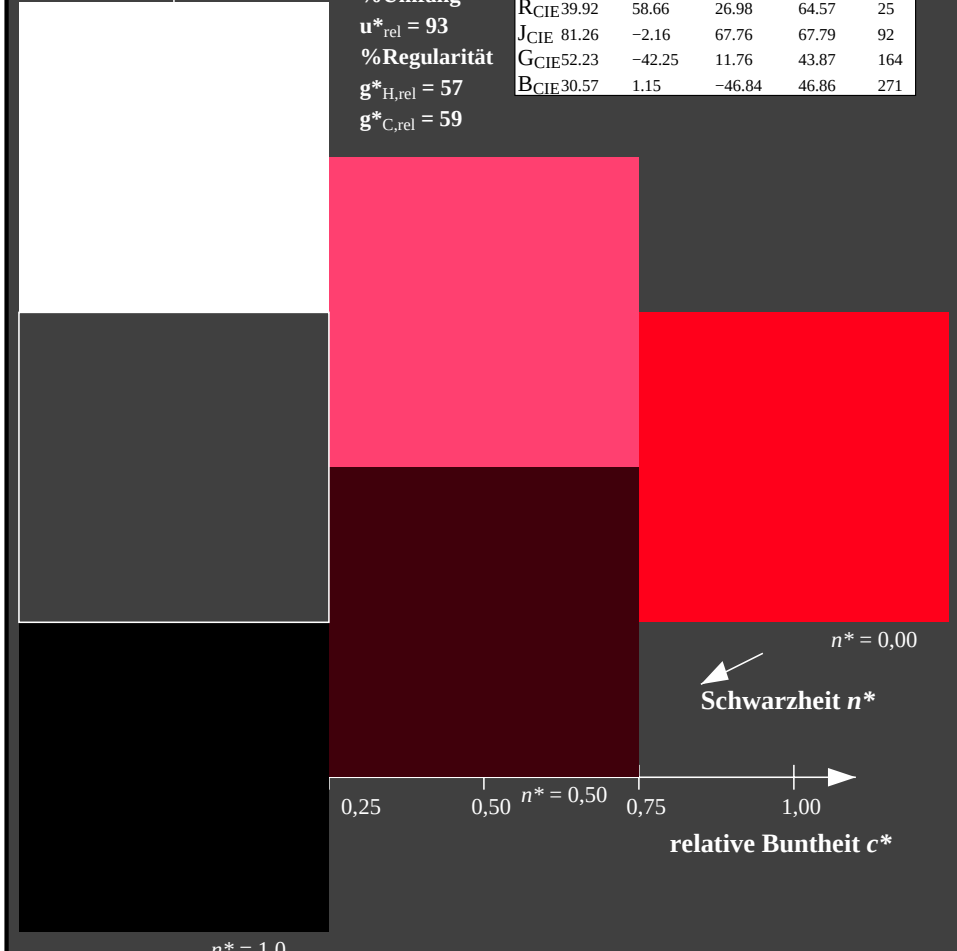
**Dreiecks-Helligkeit *t****




**ORS18; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

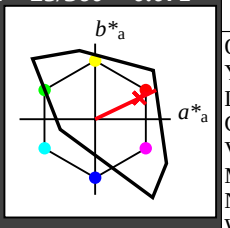
**%Umfang**
**u*rel = 93**
**%Regularität**
**g*H,rel = 57**
**g*C,rel = 59**




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h* = lab*h = 25/360 = 0.071***
***lab*tch* und *lab*nch***

**D65: Buntton R**
**LCH*Ma: 52 89 25**
**olv*Ma: 1.0 0.0 0.21**

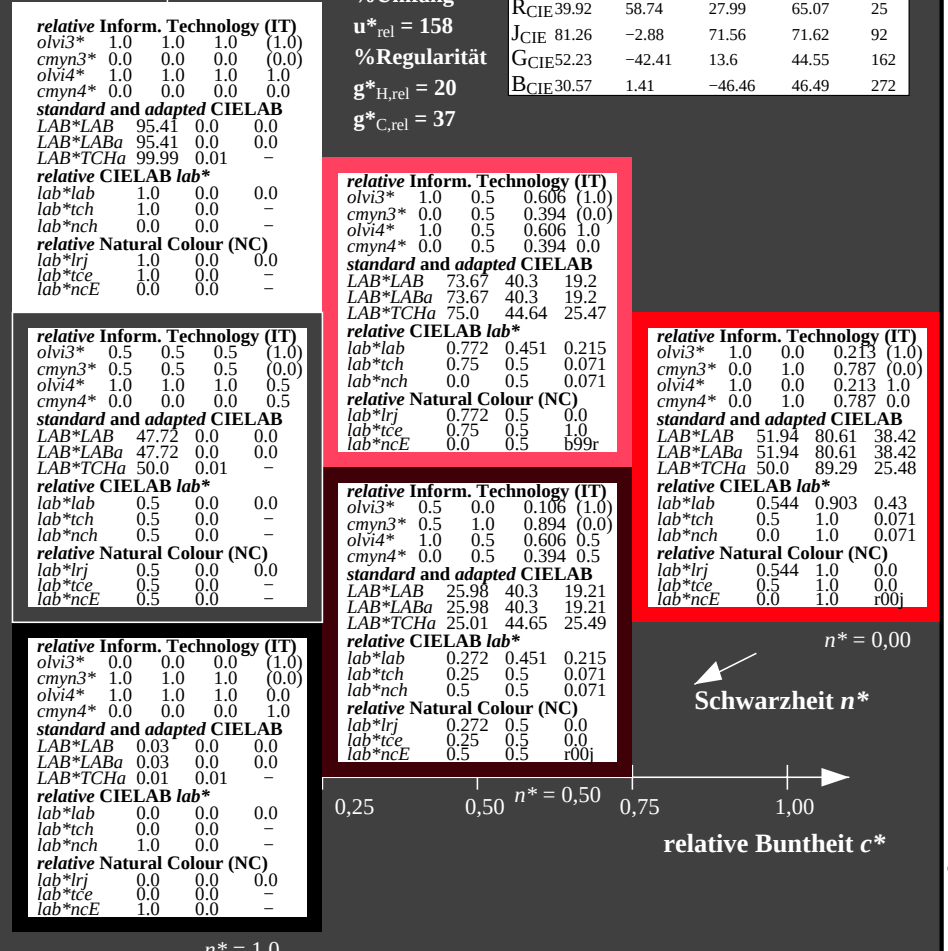
**Dreiecks-Helligkeit *t****




**TLS00; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Umfang**
**u*rel = 158**
**%Regularität**
**g*H,rel = 20**
**g*C,rel = 37**

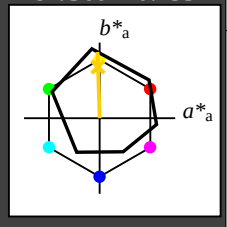



NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)
3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h* = lab*h = 92/360 = 0.255***
***lab*tch* und *lab*nch***

**D65: Buntton J**
**LCH*Ma: 86 88 92**
**olv*Ma: 1.0 0.9 0.0**

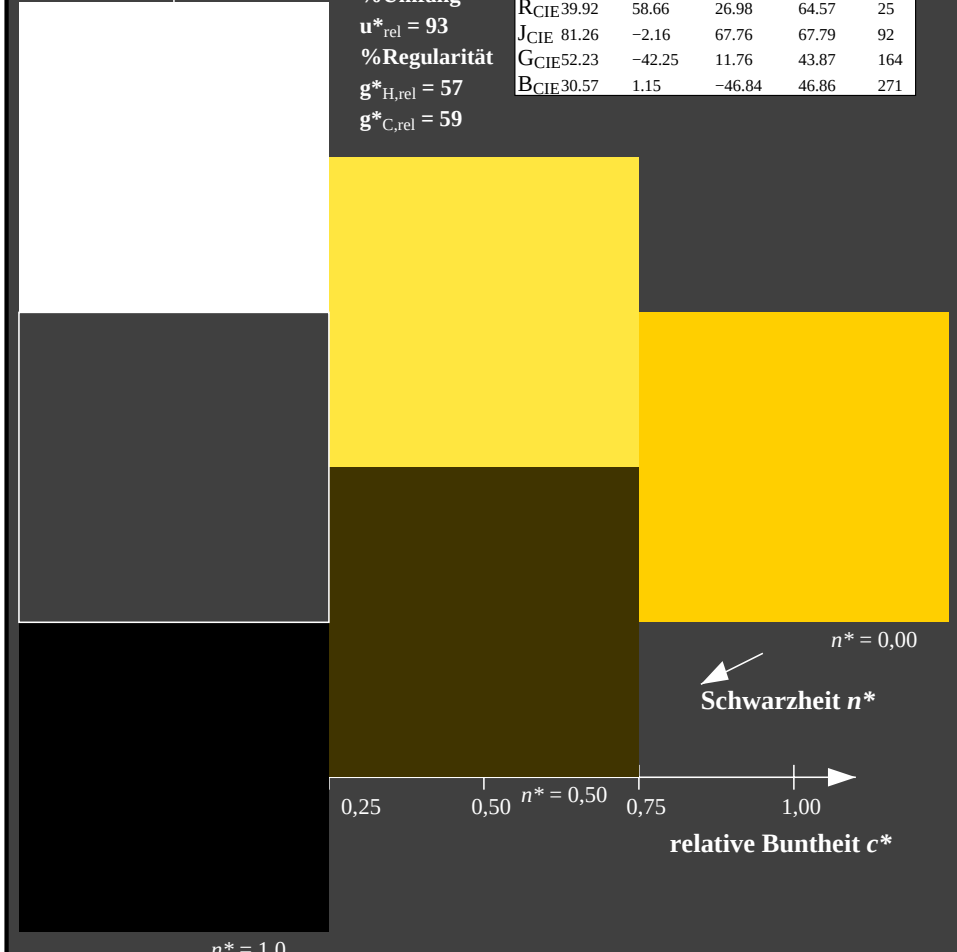
**Dreiecks-Helligkeit *t****




**ORS18; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

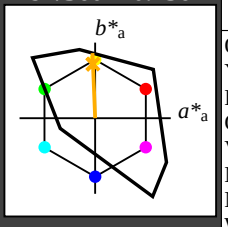
**%Umfang**
**u*$_{rel}$ = 93**
**%Regularität**
**g*$_{H,rel}$ = 57**
**g*$_{C,rel}$ = 59**




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h* = lab*h = 92/360 = 0.256***
***lab*tch* und *lab*nch***

**D65: Buntton J**
**LCH*Ma: 85 86 92**
**olv*Ma: 1.0 0.82 0.0**

**Dreiecks-Helligkeit *t****




**TLS00; adaptierte CIELAB-Daten**

| | *L**=*L**a | *a**a | *b**a | *C**ab,a | *h**ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Umfang**
**u*$_{rel}$ = 158**
**%Regularität**
**g*$_{H,rel}$ = 20**
**g*$_{C,rel}$ = 37**

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 95.41 | 0.0 | 0.0 | |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 | |
| *LAB*TCHa* | 99.99 | 0.01 | – | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 1.0 | 0.0 | 0.0 | |
| *lab*tch* | 1.0 | 0.0 | – | |
| *lab*nch* | 0.0 | 0.0 | – | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 1.0 | 0.0 | 0.0 | |
| *lab*tce* | 1.0 | 0.0 | – | |
| *lab*ncE* | 0.0 | 0.0 | – | |

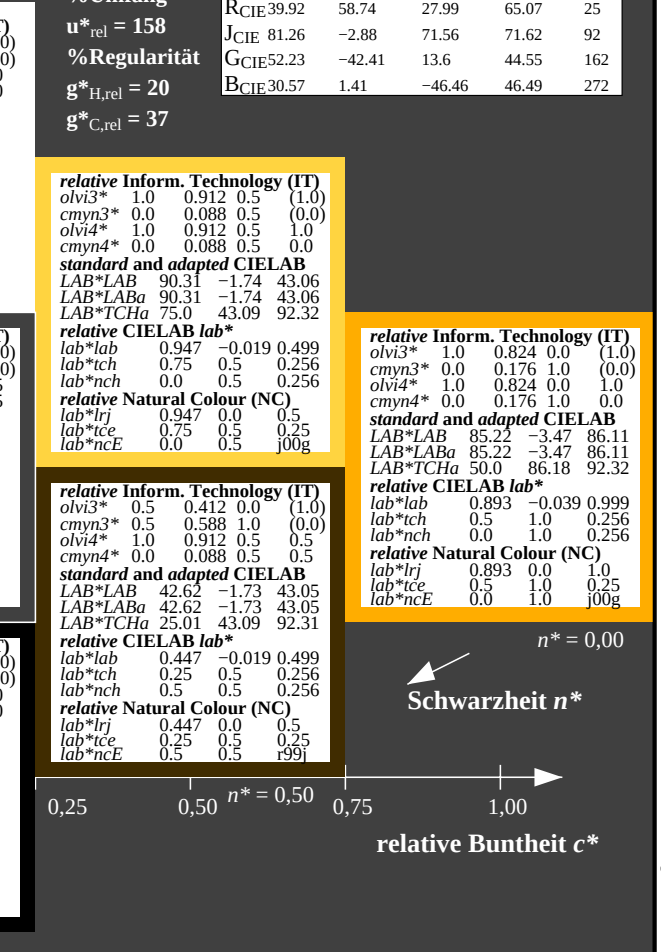
| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 47.72 | 0.0 | 0.0 | |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 | |
| *LAB*TCHa* | 50.0 | 0.01 | – | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.5 | 0.0 | 0.0 | |
| *lab*tch* | 0.5 | 0.0 | – | |
| *lab*nch* | 0.5 | 0.0 | – | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.5 | 0.0 | 0.0 | |
| *lab*tce* | 0.5 | 0.0 | – | |
| *lab*ncE* | 0.5 | 0.0 | – | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 0.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 1.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 0.03 | 0.0 | 0.0 | |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 | |
| *LAB*TCHa* | 0.01 | 0.01 | – | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.0 | 0.0 | 0.0 | |
| *lab*tch* | 0.0 | 0.0 | – | |
| *lab*nch* | 1.0 | 0.0 | – | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.0 | 0.0 | 0.0 | |
| *lab*tce* | 0.0 | 0.0 | – | |
| *lab*ncE* | 1.0 | 0.0 | – | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 0.912 | 0.5 | (1.0) |
| *cmyn3** | 0.0 | 0.088 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 0.912 | 0.5 | 1.0 |
| *cmyn4** | 0.0 | 0.088 | 0.5 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 90.31 | −1.74 | 43.06 | |
| *LAB*LABa* | 90.31 | −1.74 | 43.06 | |
| *LAB*TCHa* | 75.0 | 43.09 | 92.32 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.947 | −0.019 | 0.499 | |
| *lab*tch* | 0.75 | 0.5 | 0.256 | |
| *lab*nch* | 0.0 | 0.5 | 0.256 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.947 | 0.0 | 0.5 | |
| *lab*tce* | 0.75 | 0.5 | 0.25 | |
| *lab*ncE* | 0.0 | 0.5 | j00g | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.412 | 0.0 | (1.0) |
| *cmyn3** | 0.5 | 0.588 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 0.912 | 0.5 | 0.5 |
| *cmyn4** | 0.0 | 0.088 | 0.5 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 42.62 | −1.73 | 43.05 | |
| *LAB*LABa* | 42.62 | −1.73 | 43.05 | |
| *LAB*TCHa* | 25.01 | 43.09 | 92.31 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.447 | −0.019 | 0.499 | |
| *lab*tch* | 0.25 | 0.5 | 0.256 | |
| *lab*nch* | 0.5 | 0.5 | 0.256 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.447 | 0.0 | 0.5 | |
| *lab*tce* | 0.25 | 0.5 | 0.25 | |
| *lab*ncE* | 0.5 | 0.5 | r99j | |

| ***relative* Inform. Technology (IT)** | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 0.824 | 0.0 | (1.0) |
| *cmyn3** | 0.0 | 0.176 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 0.824 | 0.0 | 1.0 |
| *cmyn4** | 0.0 | 0.176 | 1.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 85.22 | −3.47 | 86.11 | |
| *LAB*LABa* | 85.22 | −3.47 | 86.11 | |
| *LAB*TCHa* | 50.0 | 86.18 | 92.32 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.893 | −0.039 | 0.999 | |
| *lab*tch* | 0.5 | 1.0 | 0.256 | |
| *lab*nch* | 0.0 | 1.0 | 0.256 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.893 | 0.0 | 1.0 | |
| *lab*tce* | 0.5 | 1.0 | 0.25 | |
| *lab*ncE* | 0.0 | 1.0 | j00g | |

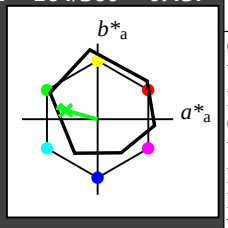



NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (links)

3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h** = lab*h = 164/360 = 0.457***
***lab*tch* und *lab*nch***

**D65: Buntton G**
**LCH*Ma: 53 57 164**
**olv*Ma: 0.0 1.0 0.25**

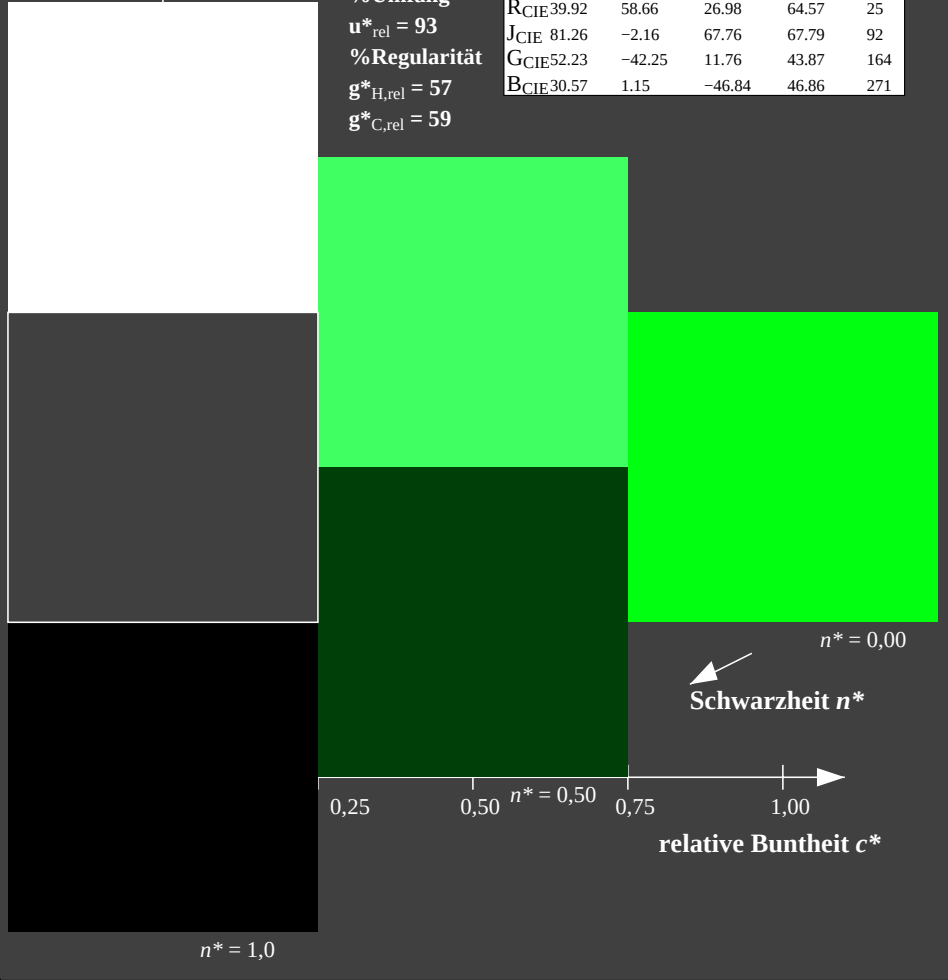



**ORS18; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

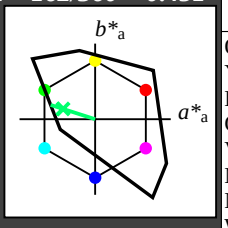
**Dreiecks-Helligkeit *t****

**%Umfang**
**u*rel = 93**
**%Regularität**
**g*H,rel = 57**
**g*C,rel = 59**




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h** = lab*h = 162/360 = 0.451**
***lab*tch* und *lab*nch***

**D65: Buntton G**
**LCH*Ma: 86 62 162**
**olv*Ma: 0.0 1.0 0.65**

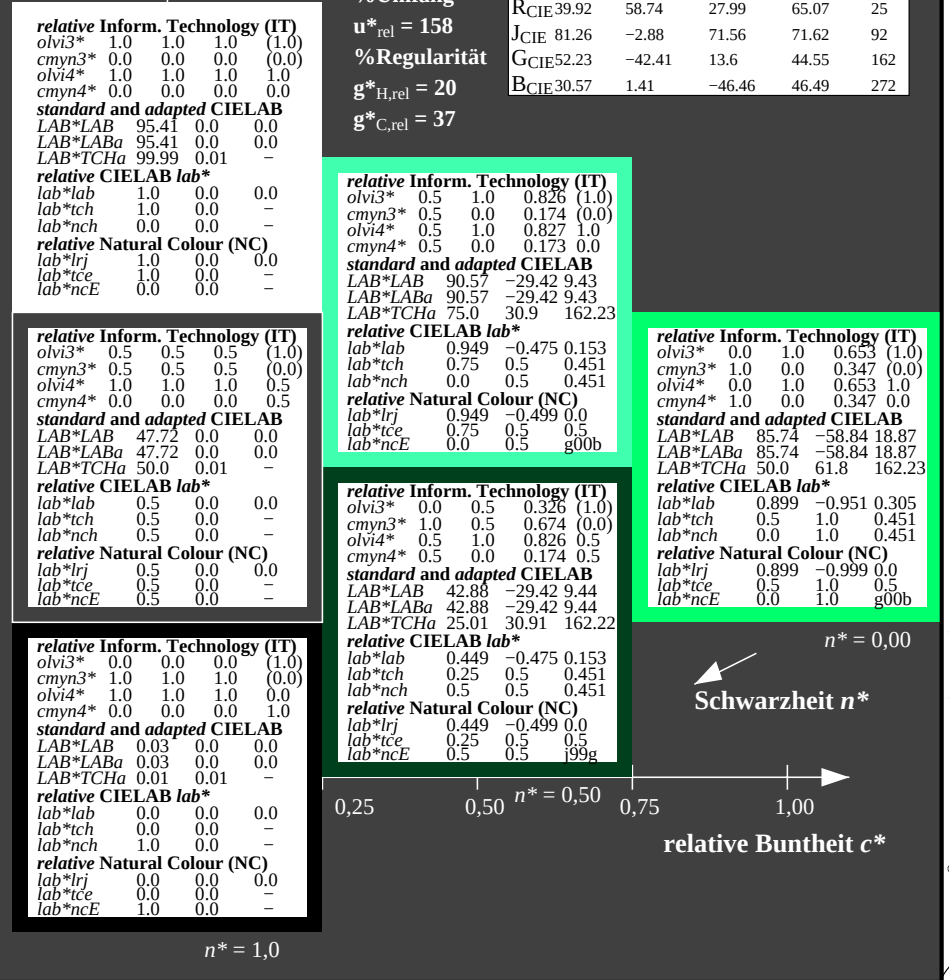



**TLS00; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**Dreiecks-Helligkeit *t****

**%Umfang**
**u*rel = 158**
**%Regularität**
**g*H,rel = 20**
**g*C,rel = 37**




***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 95.41 | 0.0 | 0.0 |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 |
| *LAB*TCHa* | 99.99 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 1.0 | 0.0 | 0.0 |
| *lab*tch* | 1.0 | 0.0 | – |
| *lab*nch* | 0.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 1.0 | 0.0 | 0.0 |
| *lab*tce* | 1.0 | 0.0 | – |
| *lab*ncE* | 0.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 |
| *LAB*TCHa* | 50.0 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | 0.0 |
| *lab*tch* | 0.5 | 0.0 | – |
| *lab*nch* | 0.5 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.0 | 0.0 |
| *lab*tce* | 0.5 | 0.0 | – |
| *lab*ncE* | 0.5 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.0 | 0.0 | 0.0 (1.0) |
| *cmyn3** | 1.0 | 1.0 | 1.0 (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 1.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 |
| *LAB*TCHa* | 0.01 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.0 | 0.0 | 0.0 |
| *lab*tch* | 0.0 | 0.0 | – |
| *lab*nch* | 1.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.0 | 0.0 | 0.0 |
| *lab*tce* | 0.0 | 0.0 | – |
| *lab*ncE* | 1.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.5 | 1.0 | 0.826 (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.174 (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.827 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.173 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 90.57 | −29.42 | 9.43 |
| *LAB*LABa* | 90.57 | −29.42 | 9.43 |
| *LAB*TCHa* | 75.0 | 30.9 | 162.23 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.949 | −0.475 | 0.153 |
| *lab*tch* | 0.75 | 0.5 | 0.451 |
| *lab*nch* | 0.0 | 0.5 | 0.451 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.949 | −0.499 | 0.0 |
| *lab*tce* | 0.75 | 0.5 | 0.5 |
| *lab*ncE* | 0.0 | 0.5 | g00b |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.0 | 0.5 | 0.326 (1.0) |
| *cmyn3** | 1.0 | 0.5 | 0.674 (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.826 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.174 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 42.88 | −29.42 | 9.44 |
| *LAB*LABa* | 42.88 | −29.42 | 9.44 |
| *LAB*TCHa* | 25.01 | 30.91 | 162.22 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.449 | −0.475 | 0.153 |
| *lab*tch* | 0.25 | 0.5 | 0.451 |
| *lab*nch* | 0.5 | 0.5 | 0.451 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.449 | −0.499 | 0.0 |
| *lab*tce* | 0.25 | 0.5 | 0.5 |
| *lab*ncE* | 0.5 | 0.5 | j99g |

***relative* Inform. Technology (IT)**

| | | | |
|---|---|---|---|
| *olvi3** | 0.0 | 1.0 | 0.653 (1.0) |
| *cmyn3** | 1.0 | 0.0 | 0.347 (0.0) |
| *olvi4** | 0.0 | 1.0 | 0.653 1.0 |
| *cmyn4** | 1.0 | 0.0 | 0.347 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 85.74 | −58.84 | 18.87 |
| *LAB*LABa* | 85.74 | −58.84 | 18.87 |
| *LAB*TCHa* | 50.0 | 61.8 | 162.23 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.899 | −0.951 | 0.305 |
| *lab*tch* | 0.5 | 1.0 | 0.451 |
| *lab*nch* | 0.0 | 1.0 | 0.451 |

***relative* Natural Colour (NC)**

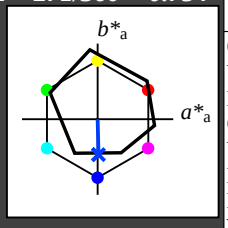
| | | | |
|---|---|---|---|
| *lab*lrj* | 0.899 | −0.999 | 0.0 |
| *lab*tce* | 0.5 | 1.0 | 0.5 |
| *lab*ncE* | 0.0 | 1.0 | g00b |

NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (links)

3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (rechts)

**Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18**
**für Buntton *h** = lab*h = 271/360 = 0.754**
***lab*tch* und *lab*nch***

**D65: Buntton B**
**LCH*Ma: 42 45 271**
**olv*Ma: 0.0 0.49 1.0**

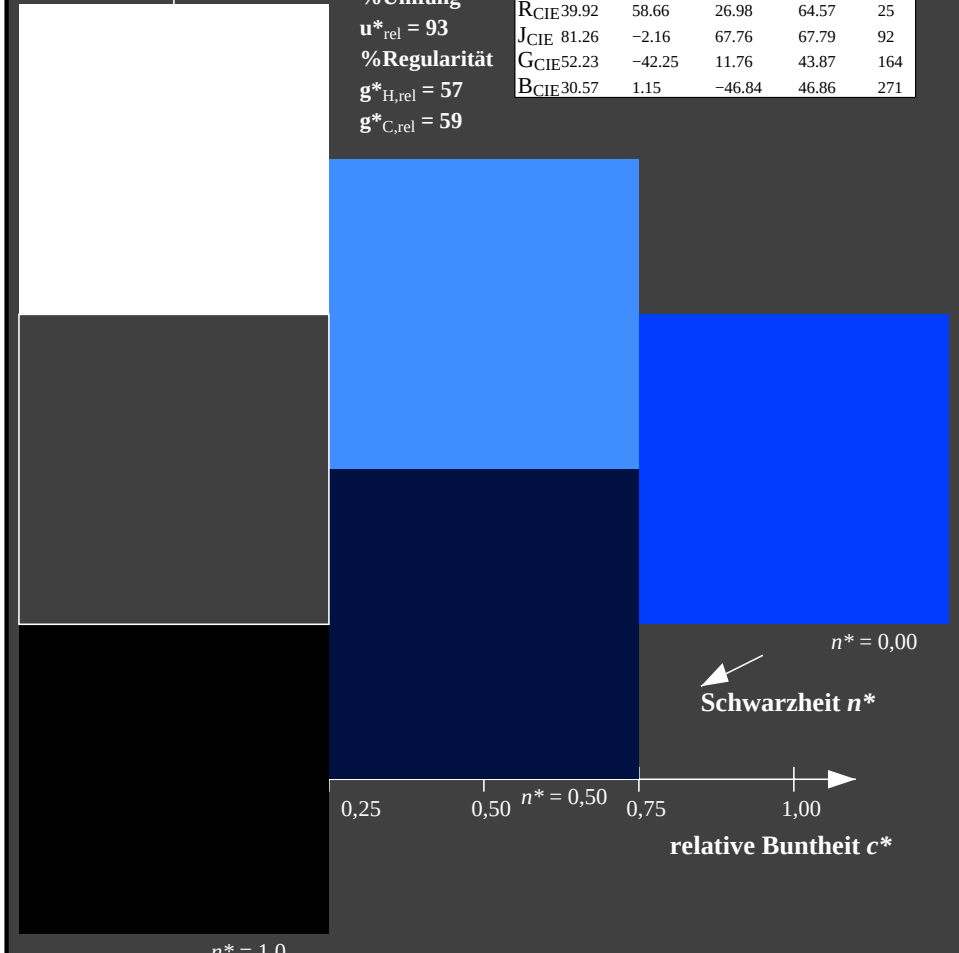



**ORS18; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

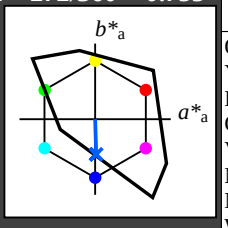
**Dreiecks-Helligkeit *t****

**%Umfang**
**u*rel = 93**
**%Regularität**
**g*H,rel = 57**
**g*C,rel = 59**




**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**
**für Buntton *h** = lab*h = 272/360 = 0.755**
***lab*tch* und *lab*nch***

**D65: Buntton B**
**LCH*Ma: 65 49 272**
**olv*Ma: 0.0 0.61 1.0**

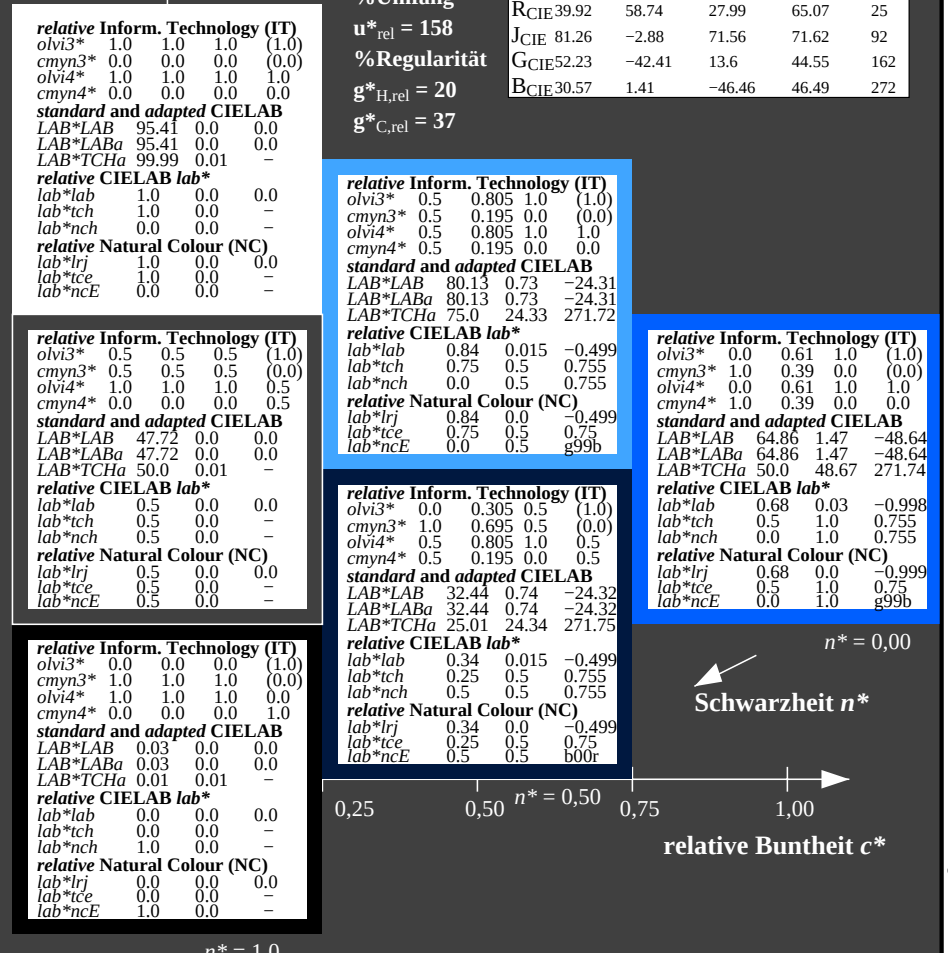



**TLS00; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**Dreiecks-Helligkeit *t****

**%Umfang**
**u*rel = 158**
**%Regularität**
**g*H,rel = 20**
**g*C,rel = 37**




***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 1.0 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.0 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 95.41 | 0.0 | 0.0 |
| *LAB*LABa* | 95.41 | 0.0 | 0.0 |
| *LAB*TCHa* | 99.99 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 1.0 | 0.0 | 0.0 |
| *lab*tch* | 1.0 | 0.0 | – |
| *lab*nch* | 0.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 1.0 | 0.0 | 0.0 |
| *lab*tce* | 1.0 | 0.0 | – |
| *lab*ncE* | 0.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.5 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.5 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 0.0 | 0.0 |
| *LAB*TCHa* | 50.0 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | 0.0 |
| *lab*tch* | 0.5 | 0.0 | – |
| *lab*nch* | 0.5 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.0 | 0.0 |
| *lab*tce* | 0.5 | 0.0 | – |
| *lab*ncE* | 0.5 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 0.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.0 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 1.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 |
| *LAB*TCHa* | 0.01 | 0.01 | – |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.0 | 0.0 | 0.0 |
| *lab*tch* | 0.0 | 0.0 | – |
| *lab*nch* | 1.0 | 0.0 | – |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.0 | 0.0 | 0.0 |
| *lab*tce* | 0.0 | 0.0 | – |
| *lab*ncE* | 1.0 | 0.0 | – |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.805 | 1.0 | (1.0) |
| *cmyn3** | 0.5 | 0.195 | 0.0 | (0.0) |
| *olvi4** | 0.5 | 0.805 | 1.0 | 1.0 |
| *cmyn4** | 0.5 | 0.195 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 80.13 | 0.73 | −24.31 |
| *LAB*LABa* | 80.13 | 0.73 | −24.31 |
| *LAB*TCHa* | 75.0 | 24.33 | 271.72 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.84 | 0.015 | −0.499 |
| *lab*tch* | 0.75 | 0.5 | 0.755 |
| *lab*nch* | 0.0 | 0.5 | 0.755 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.84 | 0.0 | −0.499 |
| *lab*tce* | 0.75 | 0.5 | 0.75 |
| *lab*ncE* | 0.0 | 0.5 | g99b |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 0.305 | 0.5 | (1.0) |
| *cmyn3** | 1.0 | 0.695 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 0.805 | 1.0 | 0.5 |
| *cmyn4** | 0.5 | 0.195 | 0.0 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 32.44 | 0.74 | −24.32 |
| *LAB*LABa* | 32.44 | 0.74 | −24.32 |
| *LAB*TCHa* | 25.01 | 24.34 | 271.75 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.34 | 0.015 | −0.499 |
| *lab*tch* | 0.25 | 0.5 | 0.755 |
| *lab*nch* | 0.5 | 0.5 | 0.755 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.34 | 0.0 | −0.499 |
| *lab*tce* | 0.25 | 0.5 | 0.75 |
| *lab*ncE* | 0.5 | 0.5 | b00r |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 0.61 | 1.0 | (1.0) |
| *cmyn3** | 1.0 | 0.39 | 0.0 | (0.0) |
| *olvi4** | 0.0 | 0.61 | 1.0 | 1.0 |
| *cmyn4** | 1.0 | 0.39 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 64.86 | 1.47 | −48.64 |
| *LAB*LABa* | 64.86 | 1.47 | −48.64 |
| *LAB*TCHa* | 50.0 | 48.67 | 271.74 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.68 | 0.03 | −0.998 |
| *lab*tch* | 0.5 | 1.0 | 0.755 |
| *lab*nch* | 0.0 | 1.0 | 0.755 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.68 | 0.0 | −0.999 |
| *lab*tce* | 0.5 | 1.0 | 0.75 |
| *lab*ncE* | 0.0 | 1.0 | g99b |

NG000−7, 3 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (links)
3 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (rechts)