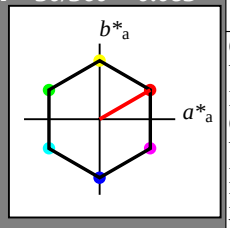
## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 30/360 = 0.083*
*lab*tch* und *lab*nch*

**D65: Buntton O**
**LCH*Ma: 57 77 30**
**olv*Ma: 1.0 0.0 0.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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 = 100**
%Regularität
**g*H,rel = 100**
**g*C,rel = 100**

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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 | 0.5 | 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* | 76.06 | 33.51 | 19.35 |
| *LAB*LABa* | 76.06 | 33.51 | 19.35 |
| *LAB*TCHa* | 75.0 | 38.69 | 30.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | 0.433 | 0.25 |
| *lab*tch* | 0.75 | 0.5 | 0.083 |
| *lab*nch* | 0.0 | 0.5 | 0.083 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.75 | 0.497 | 0.053 |
| *lab*tce* | 0.75 | 0.5 | 0.017 |
| *lab*ncE* | 0.0 | 0.5 | r06j |

***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* | 37.36 | 33.51 | 19.35 |
| *LAB*LABa* | 37.36 | 33.51 | 19.35 |
| *LAB*TCHa* | 25.01 | 38.69 | 30.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | 0.433 | 0.25 |
| *lab*tch* | 0.25 | 0.5 | 0.083 |
| *lab*nch* | 0.5 | 0.5 | 0.083 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.25 | 0.497 | 0.053 |
| *lab*tce* | 0.25 | 0.5 | 0.017 |
| *lab*ncE* | 0.5 | 0.5 | r06j |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 56.71 | 67.02 | 38.69 |
| *LAB*LABa* | 56.71 | 67.02 | 38.69 |
| *LAB*TCHa* | 50.0 | 77.38 | 30.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.866 | 0.5 |
| *lab*tch* | 0.5 | 1.0 | 0.083 |
| *lab*nch* | 0.0 | 1.0 | 0.083 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.994 | 0.106 |
| *lab*tce* | 0.5 | 1.0 | 0.017 |
| *lab*ncE* | 0.0 | 1.0 | r06j |

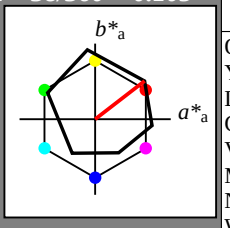
*n** = 0,00
Schwarzheit *n**
*n** = 0,50
*n** = 1,0
0,25 0,50 0,75 1,00
relative Buntheit *c**

## Ausgabe: 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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.5 | 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* | 71.67 | 32.15 | 28.41 |
| *LAB*LABa* | 71.67 | 32.69 | 25.25 |
| *LAB*TCHa* | 75.0 | 41.31 | 37.69 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.693 | 0.396 | 0.306 |
| *lab*tch* | 0.75 | 0.5 | 0.105 |
| *lab*nch* | 0.0 | 0.5 | 0.105 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.693 | 0.477 | 0.15 |
| *lab*tce* | 0.75 | 0.5 | 0.048 |
| *lab*ncE* | 0.0 | 0.5 | r19j |

***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* | 32.98 | 32.9 | 25.8 |
| *LAB*LABa* | 32.98 | 32.69 | 25.25 |
| *LAB*TCHa* | 25.01 | 41.31 | 37.69 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.193 | 0.396 | 0.306 |
| *lab*tch* | 0.25 | 0.5 | 0.105 |
| *lab*nch* | 0.5 | 0.5 | 0.105 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.193 | 0.477 | 0.15 |
| *lab*tce* | 0.25 | 0.5 | 0.048 |
| *lab*ncE* | 0.5 | 0.5 | r19j |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 47.94 | 65.3 | 52.06 |
| *LAB*LABa* | 47.94 | 65.37 | 50.51 |
| *LAB*TCHa* | 50.0 | 82.61 | 37.69 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.387 | 0.791 | 0.611 |
| *lab*tch* | 0.5 | 1.0 | 0.105 |
| *lab*nch* | 0.0 | 1.0 | 0.105 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.387 | 0.954 | 0.299 |
| *lab*tce* | 0.5 | 1.0 | 0.048 |
| *lab*ncE* | 0.0 | 1.0 | r19j |

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

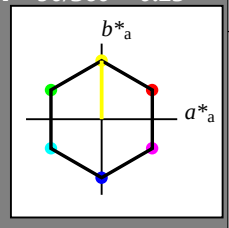
NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (links)
3 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (rechts)

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 90/360 = 0.25*
*lab*tch* und *lab*nch*

**D65: Buntton Y**
**LCH*Ma: 57 77 90**
**olv*Ma: 1.0 1.0 0.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | *L*=L*a* | *a*a* | *b*a* | *C*ab,a* | *h*ab,a* |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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*$_{rel}$ = 100**
%Regularität
**g*$_{H,rel}$ = 100**
**g*$_{C,rel}$ = 100**

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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* | 76.06 | 0.0 | 38.69 |
| *LAB*LABa* | 76.06 | 0.0 | 38.69 |
| *LAB*TCHa* | 75.0 | 38.69 | 90.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | 0.0 | 0.5 |
| *lab*tch* | 0.75 | 0.5 | 0.25 |
| *lab*nch* | 0.0 | 0.5 | 0.25 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.75 | 0.027 | 0.499 |
| *lab*tce* | 0.75 | 0.5 | 0.241 |
| *lab*ncE* | 0.0 | 0.5 | r96j |

***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* | 37.36 | 0.0 | 38.69 |
| *LAB*LABa* | 37.36 | 0.0 | 38.69 |
| *LAB*TCHa* | 25.01 | 38.69 | 90.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | 0.0 | 0.5 |
| *lab*tch* | 0.25 | 0.5 | 0.25 |
| *lab*nch* | 0.5 | 0.5 | 0.25 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.25 | 0.027 | 0.499 |
| *lab*tce* | 0.25 | 0.5 | 0.241 |
| *lab*ncE* | 0.5 | 0.5 | r96j |

***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* | 56.71 | 0.0 | 77.38 |
| *LAB*LABa* | 56.71 | 0.0 | 77.38 |
| *LAB*TCHa* | 50.0 | 77.38 | 90.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | 1.0 |
| *lab*tch* | 0.5 | 1.0 | 0.25 |
| *lab*nch* | 0.0 | 1.0 | 0.25 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.054 | 0.998 |
| *lab*tce* | 0.5 | 1.0 | 0.241 |
| *lab*ncE* | 0.0 | 1.0 | r96j |

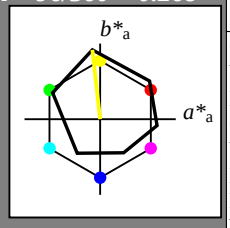
*n* = 0,00*
**Schwarzheit *n****
*n* = 0,50*
0,25 0,50 0,75 1,00
**relative Buntheit *c****
*n* = 1,0*

## Ausgabe: 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**

***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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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* | 92.88 | −6.06 | 50.46 |
| *LAB*LABa* | 92.88 | −5.12 | 45.87 |
| *LAB*TCHa* | 75.0 | 46.15 | 96.38 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.967 | −0.055 | 0.497 |
| *lab*tch* | 0.75 | 0.5 | 0.268 |
| *lab*nch* | 0.0 | 0.5 | 0.268 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.967 | −0.048 | 0.497 |
| *lab*tce* | 0.75 | 0.5 | 0.266 |
| *lab*ncE* | 0.0 | 0.5 | j06g |

***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* | 54.19 | −5.32 | 47.84 |
| *LAB*LABa* | 54.19 | −5.12 | 45.87 |
| *LAB*TCHa* | 25.01 | 46.15 | 96.38 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.467 | −0.055 | 0.497 |
| *lab*tch* | 0.25 | 0.5 | 0.268 |
| *lab*nch* | 0.5 | 0.5 | 0.268 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.467 | −0.048 | 0.497 |
| *lab*tce* | 0.25 | 0.5 | 0.266 |
| *lab*ncE* | 0.5 | 0.5 | j06g |

***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* | 90.36 | −11.15 | 96.15 |
| *LAB*LABa* | 90.36 | −10.25 | 91.73 |
| *LAB*TCHa* | 50.0 | 92.3 | 96.38 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.935 | −0.11 | 0.994 |
| *lab*tch* | 0.5 | 1.0 | 0.268 |
| *lab*nch* | 0.0 | 1.0 | 0.268 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.935 | −0.097 | 0.995 |
| *lab*tce* | 0.5 | 1.0 | 0.266 |
| *lab*ncE* | 0.0 | 1.0 | j06g |

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

NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 90/360 = 0.25 (links)
3 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (rechts)

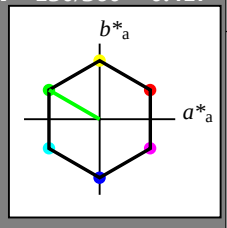
BAM-Prüfvorlage NG17; Farbmetrik-Systeme SRS18 & ORS18 input: *olv* setrgbcolor*
D65: 2 Koordinatendaten; 3stufige Farbreihen für 10 Bunttöne output: *no change compared to input*

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 150/360 = 0.417*
*lab*tch* und *lab*nch*

**D65: Buntton L**
**LCH*Ma: 57 77 150**
**olv*Ma: 0.0 1.0 0.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | *L*=L*a* | *a*a* | *b*a* | *C*ab,a* | *h*ab,a* |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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 = 100**
**%Regularität**
**g*H,rel = 100**
**g*C,rel = 100**

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.5 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.5 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 76.06 | −33.5 | 19.35 |
| *LAB*LABa* | 76.06 | −33.5 | 19.35 |
| *LAB*TCHa* | 75.0 | 38.69 | 150.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | −0.432 | 0.25 |
| *lab*tch* | 0.75 | 0.5 | 0.417 |
| *lab*nch* | 0.0 | 0.5 | 0.417 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.75 | −0.48 | 0.136 |
| *lab*tce* | 0.75 | 0.5 | 0.456 |
| *lab*ncE* | 0.0 | 0.5 | j82g |

***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* | 37.36 | −33.5 | 19.35 |
| *LAB*LABa* | 37.36 | −33.5 | 19.35 |
| *LAB*TCHa* | 25.01 | 38.69 | 150.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | −0.432 | 0.25 |
| *lab*tch* | 0.25 | 0.5 | 0.417 |
| *lab*nch* | 0.5 | 0.5 | 0.417 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.25 | −0.48 | 0.136 |
| *lab*tce* | 0.25 | 0.5 | 0.456 |
| *lab*ncE* | 0.5 | 0.5 | j82g |

***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* | 56.71 | −67.01 | 38.69 |
| *LAB*LABa* | 56.71 | −67.01 | 38.69 |
| *LAB*TCHa* | 50.0 | 77.38 | 150.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | −0.865 | 0.5 |
| *lab*tch* | 0.5 | 1.0 | 0.417 |
| *lab*nch* | 0.0 | 1.0 | 0.417 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | −0.961 | 0.271 |
| *lab*tce* | 0.5 | 1.0 | 0.456 |
| *lab*ncE* | 0.0 | 1.0 | j82g |

*n* = 0,00*

**Schwarzheit *n****

*n* = 1,0*

0,25 0,50 *n* = 0,50* 0,75 1,00

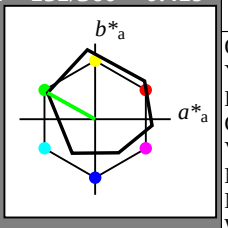
**relative Buntheit *c****

## Ausgabe: 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**

**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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.5 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.5 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 73.15 | −31.96 | 20.73 |
| *LAB*LABa* | 73.15 | −31.4 | 17.48 |
| *LAB*TCHa* | 75.0 | 35.95 | 150.91 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.712 | −0.436 | 0.243 |
| *lab*tch* | 0.75 | 0.5 | 0.419 |
| *lab*nch* | 0.0 | 0.5 | 0.419 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.712 | −0.478 | 0.144 |
| *lab*tce* | 0.75 | 0.5 | 0.453 |
| *lab*ncE* | 0.0 | 0.5 | j81g |

***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* | 34.46 | −31.22 | 18.12 |
| *LAB*LABa* | 34.46 | −31.4 | 17.48 |
| *LAB*TCHa* | 25.01 | 35.95 | 150.91 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.213 | −0.436 | 0.243 |
| *lab*tch* | 0.25 | 0.5 | 0.419 |
| *lab*nch* | 0.5 | 0.5 | 0.419 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.213 | −0.478 | 0.144 |
| *lab*tce* | 0.25 | 0.5 | 0.453 |
| *lab*ncE* | 0.5 | 0.5 | j81g |

***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* | 50.9 | −62.95 | 36.7 |
| *LAB*LABa* | 50.9 | −62.81 | 34.95 |
| *LAB*TCHa* | 50.0 | 71.89 | 150.91 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.425 | −0.873 | 0.486 |
| *lab*tch* | 0.5 | 1.0 | 0.419 |
| *lab*nch* | 0.0 | 1.0 | 0.419 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.425 | −0.956 | 0.289 |
| *lab*tce* | 0.5 | 1.0 | 0.453 |
| *lab*ncE* | 0.0 | 1.0 | j81g |

*n* = 0,00*

**Schwarzheit *n****

*n* = 1,0*

0,25 0,50 *n* = 0,50* 0,75 1,00

**relative Buntheit *c****

NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 150/360 = 0.417 (links)

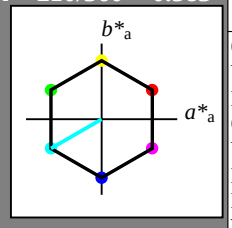
3 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (rechts)

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 210/360 = 0.583*
*lab*tch* und *lab*nch*

**D65: Buntton C**
**LCH*Ma: 57 77 210**
**olv*Ma: 0.0 1.0 1.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | *L*=L*a* | *a*a* | *b*a* | *C*ab,a* | *h*ab,a* |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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*$_{rel}$ = 100**
%Regularität
**g*$_{H,rel}$ = 100**
**g*$_{C,rel}$ = 100**

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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* | 76.06 | −33.5 | −19.34 |
| *LAB*LABa* | 76.06 | −33.5 | −19.34 |
| *LAB*TCHa* | 75.0 | 38.69 | 210.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | −0.432 | −0.249 |
| *lab*tch* | 0.75 | 0.5 | 0.583 |
| *lab*nch* | 0.0 | 0.5 | 0.583 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.75 | −0.386 | −0.315 |
| *lab*tce* | 0.75 | 0.5 | 0.609 |
| *lab*ncE* | 0.0 | 0.5 | g43b |

***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* | 37.36 | −33.5 | −19.34 |
| *LAB*LABa* | 37.36 | −33.5 | −19.34 |
| *LAB*TCHa* | 25.01 | 38.69 | 210.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | −0.432 | −0.249 |
| *lab*tch* | 0.25 | 0.5 | 0.583 |
| *lab*nch* | 0.5 | 0.5 | 0.583 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.25 | −0.386 | −0.315 |
| *lab*tce* | 0.25 | 0.5 | 0.609 |
| *lab*ncE* | 0.5 | 0.5 | g43b |

***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* | 56.71 | −67.01 | −38.68 |
| *LAB*LABa* | 56.71 | −67.01 | −38.68 |
| *LAB*TCHa* | 50.0 | 77.38 | 210.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | −0.865 | −0.499 |
| *lab*tch* | 0.5 | 1.0 | 0.583 |
| *lab*nch* | 0.0 | 1.0 | 0.583 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | −0.773 | −0.632 |
| *lab*tce* | 0.5 | 1.0 | 0.609 |
| *lab*ncE* | 0.0 | 1.0 | g43b |

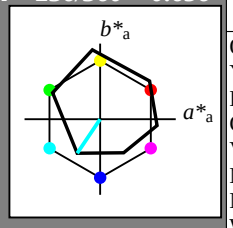
*n* = 0,00*
**Schwarzheit *n****
*n* = 0,50*
0,25 0,50 0,75 1,00
**relative Buntheit *c****
*n* = 1,0*

## Ausgabe: 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**

***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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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* | 77.01 | −15.8 | −18.98 |
| *LAB*LABa* | 77.01 | −15.16 | −22.5 |
| *LAB*TCHa* | 75.0 | 27.14 | 236.02 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.762 | −0.278 | −0.414 |
| *lab*tch* | 0.75 | 0.5 | 0.656 |
| *lab*nch* | 0.0 | 0.5 | 0.656 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.762 | −0.247 | −0.433 |
| *lab*tce* | 0.75 | 0.5 | 0.667 |
| *lab*ncE* | 0.0 | 0.5 | g66b |

***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* | 38.32 | −15.05 | −21.6 |
| *LAB*LABa* | 38.32 | −15.16 | −22.5 |
| *LAB*TCHa* | 25.01 | 27.14 | 236.02 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.262 | −0.278 | −0.414 |
| *lab*tch* | 0.25 | 0.5 | 0.656 |
| *lab*nch* | 0.5 | 0.5 | 0.656 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.262 | −0.247 | −0.433 |
| *lab*tce* | 0.25 | 0.5 | 0.667 |
| *lab*ncE* | 0.5 | 0.5 | g66b |

***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* | 58.62 | −30.61 | −42.73 |
| *LAB*LABa* | 58.62 | −30.33 | −45.01 |
| *LAB*TCHa* | 50.0 | 54.29 | 236.02 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.525 | −0.558 | −0.828 |
| *lab*tch* | 0.5 | 1.0 | 0.656 |
| *lab*nch* | 0.0 | 1.0 | 0.656 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.525 | −0.496 | −0.867 |
| *lab*tce* | 0.5 | 1.0 | 0.667 |
| *lab*ncE* | 0.0 | 1.0 | g66b |

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

NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 210/360 = 0.583 (links)
3 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (rechts)

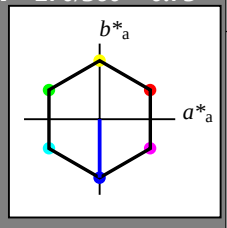
BAM-Prüfvorlage NG17; Farbmetrik-Systeme SRS18 & ORS18 input: *olv* setrgbcolor*
D65: 2 Koordinatendaten; 3stufige Farbreihen für 10 Bunttöne output: *no change compared to input*

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 270/360 = 0.75*
*lab*tch* und *lab*nch*

**D65: Buntton V**
**LCH*Ma: 57 77 270**
**olv*Ma: 0.0 0.0 1.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | *L*=L*a* | *a*a* | *b*a* | *C*ab,a* | *h*ab,a* |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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 = 100**
%Regularität
**g*H,rel = 100**
**g*C,rel = 100**

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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 | 0.5 | 1.0 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.0 | (0.0) |
| *olvi4** | 0.5 | 0.5 | 1.0 | 1.0 |
| *cmyn4** | 0.5 | 0.5 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 76.06 | 0.0 | −38.68 |
| *LAB*LABa* | 76.06 | 0.0 | −38.68 |
| *LAB*TCHa* | 75.0 | 38.69 | 270.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | 0.0 | −0.499 |
| *lab*tch* | 0.75 | 0.5 | 0.75 |
| *lab*nch* | 0.0 | 0.5 | 0.75 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.75 | −0.011 | −0.499 |
| *lab*tce* | 0.75 | 0.5 | 0.746 |
| *lab*ncE* | 0.0 | 0.5 | g98b |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 37.36 | 0.0 | −38.68 |
| *LAB*LABa* | 37.36 | 0.0 | −38.68 |
| *LAB*TCHa* | 25.01 | 38.69 | 270.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | 0.0 | −0.499 |
| *lab*tch* | 0.25 | 0.5 | 0.75 |
| *lab*nch* | 0.5 | 0.5 | 0.75 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.25 | −0.011 | −0.499 |
| *lab*tce* | 0.25 | 0.5 | 0.746 |
| *lab*ncE* | 0.5 | 0.5 | g98b |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 56.71 | 0.0 | −77.37 |
| *LAB*LABa* | 56.71 | 0.0 | −77.37 |
| *LAB*TCHa* | 50.0 | 77.38 | 270.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.0 | −0.999 |
| *lab*tch* | 0.5 | 1.0 | 0.75 |
| *lab*nch* | 0.0 | 1.0 | 0.75 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | −0.024 | −0.998 |
| *lab*tce* | 0.5 | 1.0 | 0.746 |
| *lab*ncE* | 0.0 | 1.0 | g98b |

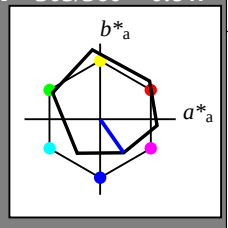
*n* = 0,00*
Schwarzheit *n**
*n* = 0,50*
0,25 0,50 0,75 1,00
relative Buntheit *c**
*n* = 1,0*

## Ausgabe: 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****




**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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.5 | 1.0 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.0 | (0.0) |
| *olvi4** | 0.5 | 0.5 | 1.0 | 1.0 |
| *cmyn4** | 0.5 | 0.5 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 60.56 | 15.23 | −19.79 |
| *LAB*LABa* | 60.56 | 15.55 | −22.19 |
| *LAB*TCHa* | 75.0 | 27.1 | 305.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.55 | 0.287 | −0.408 |
| *lab*tch* | 0.75 | 0.5 | 0.847 |
| *lab*nch* | 0.0 | 0.5 | 0.847 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.55 | 0.225 | −0.446 |
| *lab*tce* | 0.75 | 0.5 | 0.824 |
| *lab*ncE* | 0.0 | 0.5 | b29r |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 21.87 | 15.97 | −22.4 |
| *LAB*LABa* | 21.87 | 15.55 | −22.19 |
| *LAB*TCHa* | 25.01 | 27.1 | 305.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.05 | 0.287 | −0.408 |
| *lab*tch* | 0.25 | 0.5 | 0.847 |
| *lab*nch* | 0.5 | 0.5 | 0.847 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.05 | 0.225 | −0.446 |
| *lab*tce* | 0.25 | 0.5 | 0.824 |
| *lab*ncE* | 0.5 | 0.5 | b29r |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 25.73 | 31.44 | −44.34 |
| *LAB*LABa* | 25.73 | 31.09 | −44.39 |
| *LAB*TCHa* | 50.0 | 54.21 | 305.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.1 | 0.573 | −0.818 |
| *lab*tch* | 0.5 | 1.0 | 0.847 |
| *lab*nch* | 0.0 | 1.0 | 0.847 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.1 | 0.449 | −0.892 |
| *lab*tce* | 0.5 | 1.0 | 0.824 |
| *lab*ncE* | 0.0 | 1.0 | b29r |

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

NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 270/360 = 0.75 (links)
3 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (rechts)

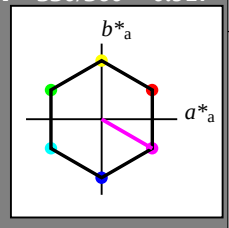
BAM-Prüfvorlage NG17; Farbmetrik-Systeme SRS18 & ORS18 input: *olv* setrgbcolor*
D65: 2 Koordinatendaten; 3stufige Farbreihen für 10 Bunttöne output: *no change compared to input*

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 330/360 = 0.917*
*lab*tch* und *lab*nch*

**D65: Buntton M**
**LCH*Ma: 57 77 330**
**olv*Ma: 1.0 0.0 1.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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
$u^*_{rel}$ = 100
%Regularität
$g^*_{H,rel}$ = 100
$g^*_{C,rel}$ = 100

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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 | 0.5 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.5 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.5 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 76.06 | 33.51 | −19.34 |
| *LAB*LABa* | 76.06 | 33.51 | −19.34 |
| *LAB*TCHa* | 75.0 | 38.69 | 330.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | 0.433 | −0.249 |
| *lab*tch* | 0.75 | 0.5 | 0.917 |
| *lab*nch* | 0.0 | 0.5 | 0.917 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.75 | 0.36 | −0.346 |
| *lab*tce* | 0.75 | 0.5 | 0.878 |
| *lab*ncE* | 0.0 | 0.5 | b51r |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 37.36 | 33.51 | −19.34 |
| *LAB*LABa* | 37.36 | 33.51 | −19.34 |
| *LAB*TCHa* | 25.01 | 38.69 | 330.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | 0.433 | −0.249 |
| *lab*tch* | 0.25 | 0.5 | 0.917 |
| *lab*nch* | 0.5 | 0.5 | 0.917 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.25 | 0.36 | −0.346 |
| *lab*tce* | 0.25 | 0.5 | 0.878 |
| *lab*ncE* | 0.5 | 0.5 | b51r |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 56.71 | 67.02 | −38.68 |
| *LAB*LABa* | 56.71 | 67.02 | −38.68 |
| *LAB*TCHa* | 50.0 | 77.38 | 330.0 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.866 | −0.499 |
| *lab*tch* | 0.5 | 1.0 | 0.917 |
| *lab*nch* | 0.0 | 1.0 | 0.917 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 0.72 | −0.692 |
| *lab*tce* | 0.5 | 1.0 | 0.878 |
| *lab*ncE* | 0.0 | 1.0 | b51r |

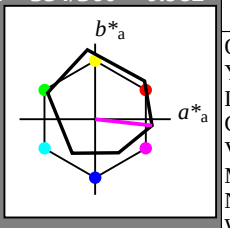
$n^* = 0{,}00$
Schwarzheit $n^*$
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit $c^*$
$n^* = 1{,}0$

## Ausgabe: 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**

**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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.5 | 1.0 | (1.0) |
| *cmyn3** | 0.0 | 0.5 | 0.0 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 1.0 | 1.0 |
| *cmyn4** | 0.0 | 0.5 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 71.77 | 37.1 | −1.01 |
| *LAB*LABa* | 71.77 | 37.63 | −4.17 |
| *LAB*TCHa* | 75.0 | 37.86 | 353.66 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.695 | 0.497 | −0.054 |
| *lab*tch* | 0.75 | 0.5 | 0.982 |
| *lab*nch* | 0.0 | 0.5 | 0.982 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.695 | 0.454 | −0.208 |
| *lab*tce* | 0.75 | 0.5 | 0.932 |
| *lab*ncE* | 0.0 | 0.5 | b72r |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 33.07 | 37.84 | −3.62 |
| *LAB*LABa* | 33.07 | 37.63 | −4.17 |
| *LAB*TCHa* | 25.01 | 37.86 | 353.66 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.195 | 0.497 | −0.054 |
| *lab*tch* | 0.25 | 0.5 | 0.982 |
| *lab*nch* | 0.5 | 0.5 | 0.982 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.195 | 0.454 | −0.208 |
| *lab*tce* | 0.25 | 0.5 | 0.932 |
| *lab*ncE* | 0.5 | 0.5 | b72r |

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

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

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 48.13 | 75.18 | −6.79 |
| *LAB*LABa* | 48.13 | 75.26 | −8.35 |
| *LAB*TCHa* | 50.0 | 75.73 | 353.66 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.389 | 0.994 | −0.109 |
| *lab*tch* | 0.5 | 1.0 | 0.982 |
| *lab*nch* | 0.0 | 1.0 | 0.982 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.389 | 0.909 | −0.416 |
| *lab*tce* | 0.5 | 1.0 | 0.932 |
| *lab*ncE* | 0.0 | 1.0 | b72r |

$n^* = 0{,}00$
Schwarzheit $n^*$
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit $c^*$
$n^* = 1{,}0$

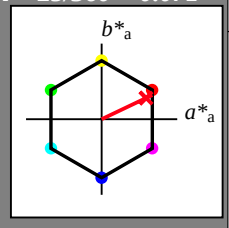
NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 330/360 = 0.917 (links)
3 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (rechts)

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 25/360 = 0.071*
*lab*tch* und *lab*nch*

**D65: Buntton R**
**LCH*Ma: 57 74 25**
**olv*Ma: 1.0 0.0 0.09**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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
$u^*_{rel} = 100$
%Regularität
$g^*_{H,rel} = 100$
$g^*_{C,rel} = 100$

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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 | 0.5 | 0.544 | (1.0) |
| *cmyn3** | 0.0 | 0.5 | 0.456 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.544 | 1.0 |
| *cmyn4** | 0.0 | 0.5 | 0.456 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 76.06 | 33.51 | 15.97 |
| *LAB*LABa* | 76.06 | 33.51 | 15.97 |
| *LAB*TCHa* | 75.0 | 37.12 | 25.48 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | 0.451 | 0.215 |
| *lab*tch* | 0.75 | 0.5 | 0.071 |
| *lab*nch* | 0.0 | 0.5 | 0.071 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.75 | 0.5 | 0.0 |
| *lab*tce* | 0.75 | 0.5 | 1.0 |
| *lab*ncE* | 0.0 | 0.5 | b99r |

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.0 | 0.044 | (1.0) |
| *cmyn3** | 0.5 | 1.0 | 0.956 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.544 | 0.5 |
| *cmyn4** | 0.0 | 0.5 | 0.456 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 37.36 | 33.51 | 15.97 |
| *LAB*LABa* | 37.36 | 33.51 | 15.97 |
| *LAB*TCHa* | 25.01 | 37.12 | 25.49 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | 0.451 | 0.215 |
| *lab*tch* | 0.25 | 0.5 | 0.071 |
| *lab*nch* | 0.5 | 0.5 | 0.071 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.25 | 0.5 | 0.0 |
| *lab*tce* | 0.25 | 0.5 | 0.0 |
| *lab*ncE* | 0.5 | 0.5 | r00j |

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 0.0 | 0.087 | (1.0) |
| *cmyn3** | 0.0 | 1.0 | 0.913 | (0.0) |
| *olvi4** | 1.0 | 0.0 | 0.087 | 1.0 |
| *cmyn4** | 0.0 | 1.0 | 0.913 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 56.71 | 67.02 | 31.94 |
| *LAB*LABa* | 56.71 | 67.02 | 31.94 |
| *LAB*TCHa* | 50.0 | 74.24 | 25.48 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | 0.903 | 0.43 |
| *lab*tch* | 0.5 | 1.0 | 0.071 |
| *lab*nch* | 0.0 | 1.0 | 0.071 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.5 | 1.0 | 0.0 |
| *lab*tce* | 0.5 | 1.0 | 0.0 |
| *lab*ncE* | 0.0 | 1.0 | r00j |

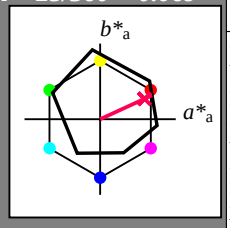
$n^* = 0{,}00$
Schwarzheit $n^*$
$n^* = 0{,}50$
0,25 0,50 0,75 1,00
relative Buntheit $c^*$
$n^* = 1{,}0$

## Ausgabe: 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
$g^*_{H,rel} = 57$
$g^*_{C,rel} = 59$

***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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.5 | 0.661 | (1.0) |
| *cmyn3** | 0.0 | 0.5 | 0.339 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.661 | 1.0 |
| *cmyn4** | 0.0 | 0.5 | 0.339 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 71.7 | 33.75 | 18.92 |
| *LAB*LABa* | 71.7 | 34.28 | 15.76 |
| *LAB*TCHa* | 75.0 | 37.73 | 24.7 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.694 | 0.454 | 0.209 |
| *lab*tch* | 0.75 | 0.5 | 0.069 |
| *lab*nch* | 0.0 | 0.5 | 0.069 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.694 | 0.5 | 0.0 |
| *lab*tce* | 0.75 | 0.5 | 1.0 |
| *lab*ncE* | 0.0 | 0.5 | b99r |

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.0 | 0.161 | (1.0) |
| *cmyn3** | 0.5 | 1.0 | 0.839 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.661 | 0.5 |
| *cmyn4** | 0.0 | 0.5 | 0.339 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 33.01 | 34.49 | 16.31 |
| *LAB*LABa* | 33.01 | 34.28 | 15.77 |
| *LAB*TCHa* | 25.01 | 37.73 | 24.7 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.194 | 0.454 | 0.209 |
| *lab*tch* | 0.25 | 0.5 | 0.069 |
| *lab*nch* | 0.5 | 0.5 | 0.069 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.194 | 0.5 | 0.0 |
| *lab*tce* | 0.25 | 0.5 | 0.0 |
| *lab*ncE* | 0.5 | 0.5 | r00j |

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 0.0 | 0.322 | (1.0) |
| *cmyn3** | 0.0 | 1.0 | 0.678 | (0.0) |
| *olvi4** | 1.0 | 0.0 | 0.322 | 1.0 |
| *cmyn4** | 0.0 | 1.0 | 0.678 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 48.0 | 68.48 | 33.09 |
| *LAB*LABa* | 48.0 | 68.56 | 31.53 |
| *LAB*TCHa* | 50.0 | 75.47 | 24.7 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.388 | 0.908 | 0.418 |
| *lab*tch* | 0.5 | 1.0 | 0.069 |
| *lab*nch* | 0.0 | 1.0 | 0.069 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.388 | 1.0 | 0.0 |
| *lab*tce* | 0.5 | 1.0 | 0.0 |
| *lab*ncE* | 0.0 | 1.0 | r00j |

$n^* = 0{,}00$
Schwarzheit $n^*$
$n^* = 0{,}50$
0,25 0,50 0,75 1,00
relative Buntheit $c^*$
$n^* = 1{,}0$

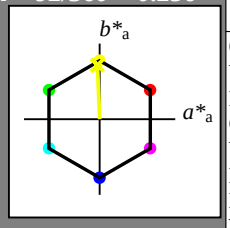
NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)
3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (rechts)

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 92/360 = 0.256*
*lab*tch* und *lab*nch*

**D65: Buntton J**
**LCH*Ma: 57 76 92**
**olv*Ma: 0.95 1.0 0.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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 = 100**
%Regularität
**g*H,rel = 100**
**g*C,rel = 100**

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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** | 0.977 | 1.0 | 0.5 | (1.0) |
| *cmyn3** | 0.023 | 0.0 | 0.5 | (0.0) |
| *olvi4** | 0.977 | 1.0 | 0.5 | 1.0 |
| *cmyn4** | 0.023 | 0.0 | 0.5 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 76.06 | −1.51 | 37.81 |
| *LAB*LABa* | 76.06 | −1.51 | 37.81 |
| *LAB*TCHa* | 75.0 | 37.84 | 92.3 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | −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* | 0.75 | 0.0 | 0.5 |
| *lab*tce* | 0.75 | 0.5 | 0.25 |
| *lab*ncE* | 0.0 | 0.5 | r99j |

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.954 | 1.0 | 0.0 | (1.0) |
| *cmyn3** | 0.046 | 0.0 | 1.0 | (0.0) |
| *olvi4** | 0.955 | 1.0 | 0.0 | 1.0 |
| *cmyn4** | 0.045 | 0.0 | 1.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 56.71 | −3.04 | 75.62 |
| *LAB*LABa* | 56.71 | −3.04 | 75.62 |
| *LAB*TCHa* | 50.0 | 75.69 | 92.31 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | −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* | 0.5 | 0.0 | 1.0 |
| *lab*tce* | 0.5 | 1.0 | 0.25 |
| *lab*ncE* | 0.0 | 1.0 | r99j |

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.477 | 0.5 | 0.0 | (1.0) |
| *cmyn3** | 0.523 | 0.5 | 1.0 | (0.0) |
| *olvi4** | 0.977 | 1.0 | 0.5 | 0.5 |
| *cmyn4** | 0.023 | 0.0 | 0.5 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 37.36 | −1.52 | 37.81 |
| *LAB*LABa* | 37.36 | −1.52 | 37.81 |
| *LAB*TCHa* | 25.01 | 37.84 | 92.31 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | −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* | 0.25 | 0.0 | 0.5 |
| *lab*tce* | 0.25 | 0.5 | 0.25 |
| *lab*ncE* | 0.5 | 0.5 | j00g |

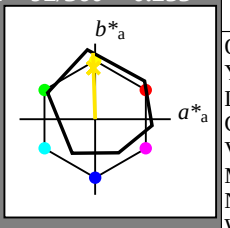
*n** = 0,00
Schwarzheit *n**
*n** = 0,50
*n** = 1,0
0,25 0,50 0,75 1,00
relative Buntheit *c**

## Ausgabe: 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**

***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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.951 | 0.5 | (1.0) |
| *cmyn3** | 0.0 | 0.049 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 0.951 | 0.5 | 1.0 |
| *cmyn4** | 0.0 | 0.049 | 0.5 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 90.8 | −2.3 | 48.29 |
| *LAB*LABa* | 90.8 | −1.4 | 43.84 |
| *LAB*TCHa* | 75.0 | 43.86 | 91.85 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.94 | −0.015 | 0.5 |
| *lab*tch* | 0.75 | 0.5 | 0.255 |
| *lab*nch* | 0.0 | 0.5 | 0.255 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.94 | 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 | 0.451 | 0.0 | (1.0) |
| *cmyn3** | 0.5 | 0.549 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 0.951 | 0.5 | 0.5 |
| *cmyn4** | 0.0 | 0.049 | 0.5 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 52.1 | −1.55 | 45.67 |
| *LAB*LABa* | 52.1 | −1.39 | 43.83 |
| *LAB*TCHa* | 25.01 | 43.86 | 91.84 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.44 | −0.015 | 0.5 |
| *lab*tch* | 0.25 | 0.5 | 0.255 |
| *lab*nch* | 0.5 | 0.5 | 0.255 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.44 | 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 | 0.901 | 0.0 | (1.0) |
| *cmyn3** | 0.0 | 0.099 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 0.902 | 0.0 | 1.0 |
| *cmyn4** | 0.0 | 0.098 | 1.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 86.19 | −3.62 | 91.81 |
| *LAB*LABa* | 86.19 | −2.81 | 87.67 |
| *LAB*TCHa* | 50.0 | 87.72 | 91.84 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.881 | −0.031 | 0.999 |
| *lab*tch* | 0.5 | 1.0 | 0.255 |
| *lab*nch* | 0.0 | 1.0 | 0.255 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.881 | 0.0 | 1.0 |
| *lab*tce* | 0.5 | 1.0 | 0.25 |
| *lab*ncE* | 0.0 | 1.0 | j00g |

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

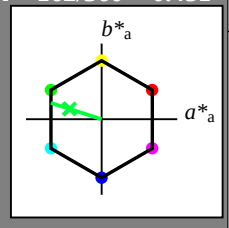
NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)
3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (rechts)

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 162/360 = 0.451*
*lab*tch* und *lab*nch*

**D65: Buntton G**
**LCH*Ma: 57 70 162**
**olv*Ma: 0.0 1.0 0.22**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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
$u^*_{rel}$ = 100
%Regularität
$g^*_{H,rel}$ = 100
$g^*_{C,rel}$ = 100

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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 | 0.611 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.389 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.611 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.389 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 76.06 | −33.5 | 10.74 |
| *LAB*LABa* | 76.06 | −33.5 | 10.74 |
| *LAB*TCHa* | 75.0 | 35.19 | 162.23 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.75 | −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* | 0.75 | −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 | 0.111 | (1.0) |
| *cmyn3** | 1.0 | 0.5 | 0.889 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.611 | 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.389 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 37.36 | −33.5 | 10.75 |
| *LAB*LABa* | 37.36 | −33.5 | 10.75 |
| *LAB*TCHa* | 25.01 | 35.19 | 162.21 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | −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* | 0.25 | −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 | 0.222 | (1.0) |
| *cmyn3** | 1.0 | 0.0 | 0.778 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 0.222 | 1.0 |
| *cmyn4** | 1.0 | 0.0 | 0.778 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 56.71 | −67.01 | 21.49 |
| *LAB*LABa* | 56.71 | −67.01 | 21.49 |
| *LAB*TCHa* | 50.0 | 70.38 | 162.22 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.5 | −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* | 0.5 | −0.999 | 0.0 |
| *lab*tce* | 0.5 | 1.0 | 0.5 |
| *lab*ncE* | 0.0 | 1.0 | j99g |

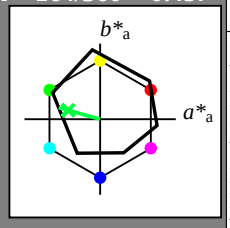
$n^*$ = 0,00
Schwarzheit $n^*$
$n^*$ = 0,50
$n^*$ = 1,0
0,25 0,50 0,75 1,00
relative Buntheit $c^*$

## Ausgabe: 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**

**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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.623 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.377 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.623 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.377 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 74.1 | −27.98 | 10.94 |
| *LAB*LABa* | 74.1 | −27.4 | 7.62 |
| *LAB*TCHa* | 75.0 | 28.45 | 164.46 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.725 | −0.481 | 0.134 |
| *lab*tch* | 0.75 | 0.5 | 0.457 |
| *lab*nch* | 0.0 | 0.5 | 0.457 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.725 | −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 | 0.123 | (1.0) |
| *cmyn3** | 1.0 | 0.5 | 0.877 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.623 | 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.377 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 35.41 | −27.24 | 8.34 |
| *LAB*LABa* | 35.41 | −27.4 | 7.63 |
| *LAB*TCHa* | 25.01 | 28.46 | 164.44 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.225 | −0.481 | 0.134 |
| *lab*tch* | 0.25 | 0.5 | 0.457 |
| *lab*nch* | 0.5 | 0.5 | 0.457 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.225 | −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 | 0.246 | (1.0) |
| *cmyn3** | 1.0 | 0.0 | 0.754 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 0.246 | 1.0 |
| *cmyn4** | 1.0 | 0.0 | 0.754 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 52.8 | −54.98 | 17.14 |
| *LAB*LABa* | 52.8 | −54.81 | 15.26 |
| *LAB*TCHa* | 50.0 | 56.91 | 164.45 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.45 | −0.962 | 0.268 |
| *lab*tch* | 0.5 | 1.0 | 0.457 |
| *lab*nch* | 0.0 | 1.0 | 0.457 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.45 | −0.999 | 0.0 |
| *lab*tce* | 0.5 | 1.0 | 0.5 |
| *lab*ncE* | 0.0 | 1.0 | j99g |

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

NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)
3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (rechts)

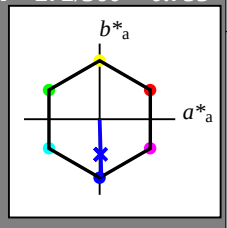
BAM-Prüfvorlage NG17; Farbmetrik-Systeme SRS18 & ORS18 input: *olv* setrgbcolor*
D65: 2 Koordinatendaten; 3stufige Farbreihen für 10 Bunttöne output: *no change compared to input*

## Eingabe: Farbmetrisches Standard-Reflektiv-System SRS18

für Buntton *h* = lab*h = 272/360 = 0.755*
*lab*tch* und *lab*nch*

**D65: Buntton B**
**LCH*Ma: 57 76 272**
**olv*Ma: 0.03 0.0 1.0**

**Dreiecks-Helligkeit *t****




**SRS18; adaptierte CIELAB-Daten**

| | *L*=L*a* | *a*a* | *b*a* | *C*ab,a* | *h*ab,a* |
|---|---|---|---|---|---|
| $O_{Ma}$ | 56.71 | 67.03 | 38.7 | 77.4 | 30 |
| $Y_{Ma}$ | 56.71 | 0.0 | 77.4 | 77.4 | 90 |
| $L_{Ma}$ | 56.71 | −67.02 | 38.7 | 77.4 | 150 |
| $C_{Ma}$ | 56.71 | −67.02 | −38.69 | 77.4 | 210 |
| $V_{Ma}$ | 56.71 | 0.0 | −77.39 | 77.4 | 270 |
| $M_{Ma}$ | 56.71 | 67.03 | −38.69 | 77.4 | 330 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 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*$_{rel}$ = 100**
%Regularität
**g*$_{H,rel}$ = 100**
**g*$_{C,rel}$ = 100**

***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* | 56.72 | 0.0 | 0.0 |
| *LAB*LABa* | 56.72 | 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* | 18.03 | 0.0 | 0.0 |
| *LAB*LABa* | 18.03 | 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** | 0.517 | 0.5 | 1.0 | (1.0) |
| *cmyn3** | 0.483 | 0.5 | 0.0 | (0.0) |
| *olvi4** | 0.517 | 0.5 | 1.0 | 1.0 |
| *cmyn4** | 0.483 | 0.5 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 76.06 | 1.15 | −38.02 |
| *LAB*LABa* | 76.06 | 1.15 | −38.02 |
| *LAB*TCHa* | 75.0 | 38.04 | 271.74 |

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

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

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.017 | 0.0 | 0.5 | (1.0) |
| *cmyn3** | 0.983 | 1.0 | 0.5 | (0.0) |
| *olvi4** | 0.517 | 0.5 | 1.0 | 0.5 |
| *cmyn4** | 0.483 | 0.5 | 0.0 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 37.36 | 1.15 | −38.02 |
| *LAB*LABa* | 37.36 | 1.15 | −38.02 |
| *LAB*TCHa* | 25.01 | 38.05 | 271.73 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.25 | 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* | 0.25 | 0.0 | −0.499 |
| *lab*tce* | 0.25 | 0.5 | 0.75 |
| *lab*ncE* | 0.5 | 0.5 | g99b |

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

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.034 | 0.0 | 1.0 | (1.0) |
| *cmyn3** | 0.966 | 1.0 | 0.0 | (0.0) |
| *olvi4** | 0.035 | 0.0 | 1.0 | 1.0 |
| *cmyn4** | 0.965 | 1.0 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 56.71 | 2.3 | −76.05 |
| *LAB*LABa* | 56.71 | 2.3 | −76.05 |
| *LAB*TCHa* | 50.0 | 76.09 | 271.73 |

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

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

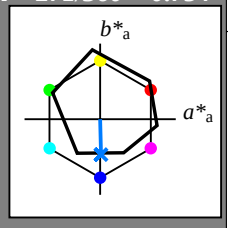
*n* = 0,00*
Schwarzheit *n**
*n* = 0,50*
0,25 0,50 0,75 1,00
relative Buntheit *c**
*n* = 1,0*

## Ausgabe: 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**

**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 | −0.98 | 4.75 |
| *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* | 56.71 | −0.24 | 2.14 |
| *LAB*LABa* | 56.71 | 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* | 18.02 | 0.5 | −0.47 |
| *LAB*LABa* | 18.02 | 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 | 0.744 | 1.0 | (1.0) |
| *cmyn3** | 0.5 | 0.256 | 0.0 | (0.0) |
| *olvi4** | 0.5 | 0.744 | 1.0 | 1.0 |
| *cmyn4** | 0.5 | 0.256 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 68.6 | 0.07 | −19.39 |
| *LAB*LABa* | 68.6 | 0.55 | −22.34 |
| *LAB*TCHa* | 75.0 | 22.36 | 271.4 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.654 | 0.012 | −0.499 |
| *lab*tch* | 0.75 | 0.5 | 0.754 |
| *lab*nch* | 0.0 | 0.5 | 0.754 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.654 | 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 | 0.244 | 0.5 | (1.0) |
| *cmyn3** | 1.0 | 0.756 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 0.744 | 1.0 | 0.5 |
| *cmyn4** | 0.5 | 0.256 | 0.0 | 0.5 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 29.9 | 0.82 | −22.01 |
| *LAB*LABa* | 29.9 | 0.55 | −22.34 |
| *LAB*TCHa* | 25.01 | 22.36 | 271.42 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.154 | 0.012 | −0.499 |
| *lab*tch* | 0.25 | 0.5 | 0.754 |
| *lab*nch* | 0.5 | 0.5 | 0.754 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.154 | 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 | 0.488 | 1.0 | (1.0) |
| *cmyn3** | 1.0 | 0.512 | 0.0 | (0.0) |
| *olvi4** | 0.0 | 0.488 | 1.0 | 1.0 |
| *cmyn4** | 1.0 | 0.512 | 0.0 | 0.0 |

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

| | | | |
|---|---|---|---|
| *LAB*LAB* | 41.79 | 1.14 | −43.55 |
| *LAB*LABa* | 41.79 | 1.1 | −44.69 |
| *LAB*TCHa* | 50.0 | 44.71 | 271.41 |

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

| | | | |
|---|---|---|---|
| *lab*lab* | 0.307 | 0.025 | −0.998 |
| *lab*tch* | 0.5 | 1.0 | 0.754 |
| *lab*nch* | 0.0 | 1.0 | 0.754 |

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

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.307 | 0.0 | −0.999 |
| *lab*tce* | 0.5 | 1.0 | 0.75 |
| *lab*ncE* | 0.0 | 1.0 | b00r |

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

NG170−7, 3 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)
3 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (rechts)

BAM-Prüfvorlage NG17; Farbmetrik-Systeme SRS18 & ORS18 input: *olv* setrgbcolor*
D65: 2 Koordinatendaten; 3stufige Farbreihen für 10 Bunttöne output: *no change compared to input*