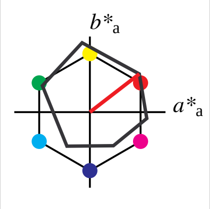
Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

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

**D65: Buntton O**
**LCH*Ma: 48 83 38**
**rgb*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 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 1.0 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 83.54 | 15.58 | 16.58 | |
| LAB*LABa | 83.54 | 16.34 | 12.62 | |
| LAB*TCHa | 87.5 | 20.65 | 37.7 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.847 | 0.198 | 0.153 | |
| lab*tch | 0.875 | 0.25 | 0.105 | |
| lab*nch | 0.0 | 0.25 | 0.105 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.847 | 0.238 | 0.075 | |
| lab*tce | 0.875 | 0.25 | 0.048 | |
| lab*ncE | 0.0 | 0.25 | r19j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.75 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.25 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 0.75 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 64.19 | 15.96 | 15.28 | |
| LAB*LABa | 64.19 | 16.34 | 12.63 | |
| LAB*TCHa | 62.5 | 20.65 | 37.7 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.597 | 0.198 | 0.153 | |
| lab*tch | 0.625 | 0.25 | 0.105 | |
| lab*nch | 0.25 | 0.25 | 0.105 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.597 | 0.239 | 0.075 | |
| lab*tce | 0.625 | 0.25 | 0.048 | |
| lab*ncE | 0.25 | 0.25 | r19j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.5 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.5 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 0.5 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 44.84 | 16.33 | 13.98 | |
| LAB*LABa | 44.84 | 16.34 | 12.63 | |
| LAB*TCHa | 37.5 | 20.65 | 37.7 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.347 | 0.198 | 0.153 | |
| lab*tch | 0.375 | 0.25 | 0.105 | |
| lab*nch | 0.5 | 0.25 | 0.105 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.347 | 0.239 | 0.075 | |
| lab*tce | 0.375 | 0.25 | 0.048 | |
| lab*ncE | 0.5 | 0.25 | r19j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.25 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.75 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 0.25 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 25.5 | 16.7 | 12.67 | |
| LAB*LABa | 25.5 | 16.34 | 12.62 | |
| LAB*TCHa | 12.5 | 20.65 | 37.7 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.097 | 0.198 | 0.153 | |
| lab*tch | 0.125 | 0.25 | 0.105 | |
| lab*nch | 0.75 | 0.25 | 0.105 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.097 | 0.238 | 0.075 | |
| lab*tce | 0.125 | 0.25 | 0.048 | |
| lab*ncE | 0.75 | 0.25 | r19j | |

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|---|---|---|---|---|
| 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 | 32.68 | 25.25 | |
| LAB*TCHa | 75.0 | 41.3 | 37.7 | |
| 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* | 0.75 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.25 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.5 | 0.5 | 0.75 |
| cmyn4* | 0.0 | 0.5 | 0.5 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 52.33 | 32.53 | 27.11 | |
| LAB*LABa | 52.33 | 32.69 | 25.26 | |
| LAB*TCHa | 50.0 | 41.31 | 37.7 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.443 | 0.396 | 0.306 | |
| lab*tch | 0.5 | 0.5 | 0.105 | |
| lab*nch | 0.25 | 0.5 | 0.105 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.443 | 0.477 | 0.15 | |
| lab*tce | 0.5 | 0.5 | 0.048 | |
| lab*ncE | 0.25 | 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 | 32.68 | 25.25 | |
| LAB*TCHa | 25.01 | 41.3 | 37.7 | |
| 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 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.0 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.25 | 0.25 | 1.0 |
| cmyn4* | 0.0 | 0.75 | 0.75 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 59.81 | 48.72 | 40.24 | |
| LAB*LABa | 59.81 | 49.02 | 37.88 | |
| LAB*TCHa | 62.5 | 61.95 | 37.7 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.54 | 0.593 | 0.459 | |
| lab*tch | 0.625 | 0.75 | 0.105 | |
| lab*nch | 0.0 | 0.75 | 0.105 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.54 | 0.715 | 0.225 | |
| lab*tce | 0.625 | 0.75 | 0.048 | |
| lab*ncE | 0.0 | 0.75 | r19j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.75 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.25 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.25 | 0.25 | 0.75 |
| cmyn4* | 0.0 | 0.75 | 0.75 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 40.46 | 49.1 | 38.93 | |
| LAB*LABa | 40.46 | 49.02 | 37.88 | |
| LAB*TCHa | 37.51 | 61.95 | 37.7 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.29 | 0.593 | 0.459 | |
| lab*tch | 0.375 | 0.75 | 0.105 | |
| lab*nch | 0.25 | 0.75 | 0.105 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.29 | 0.715 | 0.225 | |
| lab*tce | 0.375 | 0.75 | 0.048 | |
| lab*ncE | 0.25 | 0.75 | 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 | 47.95 | 65.29 | 52.06 | |
| LAB*LABa | 47.95 | 65.36 | 50.51 | |
| LAB*TCHa | 50.0 | 82.6 | 37.7 | |
| 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 | |

1,00

0,75

0,25

0,00

*n** = 0,00

*n** = 0,25

*n** = 0,50

*n** = 1,0

**Schwarzheit *n****

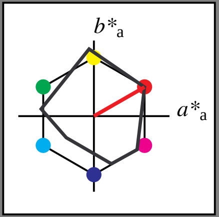
0,25 0,50 0,75 1,00

**relative Buntheit *c****

**Ausgabe: Farbmetrisches Reflexions-System MRS18**
**für Buntton *h** = *lab*h* = 30/360 = 0.083**
***lab*tch* und *lab*nch***

**D65: Buntton R**
**LCH*Ma: 50 77 30**
**rgb*Ma: 1.0 0.0 0.0**

**Dreiecks-Helligkeit *t****



**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**

**$u^*_{rel}$ = 91**

**%Regularität**

**$g^*_{H,rel}$ = 41**

**$g^*_{C,rel}$ = 52**

| | | | | |
|---|---|---|---|---|
| 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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 1.0 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 83.96 | 15.97 | 13.58 | |
| LAB*LABa | 83.96 | 16.73 | 9.59 | |
| LAB*TCHa | 87.5 | 19.29 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.852 | 0.217 | 0.124 | |
| lab*tch | 0.875 | 0.25 | 0.083 | |
| lab*nch | 0.0 | 0.25 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.852 | 0.248 | 0.03 | |
| lab*tce | 0.875 | 0.25 | 0.019 | |
| lab*ncE | 0.0 | 0.25 | r07j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.75 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.25 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 0.75 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 64.61 | 16.35 | 12.27 | |
| LAB*LABa | 64.61 | 16.74 | 9.59 | |
| LAB*TCHa | 62.5 | 19.29 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.602 | 0.217 | 0.124 | |
| lab*tch | 0.625 | 0.25 | 0.083 | |
| lab*nch | 0.25 | 0.25 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.602 | 0.248 | 0.03 | |
| lab*tce | 0.625 | 0.25 | 0.019 | |
| lab*ncE | 0.25 | 0.25 | r07j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.5 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.5 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 0.5 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 45.26 | 16.72 | 10.97 | |
| LAB*LABa | 45.26 | 16.74 | 9.59 | |
| LAB*TCHa | 37.5 | 19.29 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.352 | 0.217 | 0.124 | |
| lab*tch | 0.375 | 0.25 | 0.083 | |
| lab*nch | 0.5 | 0.25 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.352 | 0.248 | 0.03 | |
| lab*tce | 0.375 | 0.25 | 0.019 | |
| lab*ncE | 0.5 | 0.25 | r07j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.25 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.75 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | 0.25 |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 25.92 | 17.08 | 9.66 | |
| LAB*LABa | 25.92 | 16.73 | 9.59 | |
| LAB*TCHa | 12.5 | 19.29 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.102 | 0.217 | 0.124 | |
| lab*tch | 0.125 | 0.25 | 0.083 | |
| lab*nch | 0.75 | 0.25 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.102 | 0.248 | 0.03 | |
| lab*tce | 0.125 | 0.25 | 0.019 | |
| lab*ncE | 0.75 | 0.25 | r07j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 1.0 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.0 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.5 | 0.5 | 1.0 |
| cmyn4* | 0.0 | 0.5 | 0.5 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 72.52 | 32.93 | 22.4 | |
| LAB*LABa | 72.52 | 33.47 | 19.18 | |
| LAB*TCHa | 75.0 | 38.58 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.704 | 0.434 | 0.249 | |
| lab*tch | 0.75 | 0.5 | 0.083 | |
| lab*nch | 0.0 | 0.5 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.704 | 0.496 | 0.06 | |
| lab*tce | 0.75 | 0.5 | 0.019 | |
| lab*ncE | 0.0 | 0.5 | r07j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.75 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.25 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.5 | 0.5 | 0.75 |
| cmyn4* | 0.0 | 0.5 | 0.5 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 53.17 | 33.31 | 21.09 | |
| LAB*LABa | 53.17 | 33.48 | 19.19 | |
| LAB*TCHa | 50.0 | 38.59 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.454 | 0.434 | 0.249 | |
| lab*tch | 0.5 | 0.5 | 0.083 | |
| lab*nch | 0.25 | 0.5 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.454 | 0.496 | 0.06 | |
| lab*tce | 0.5 | 0.5 | 0.019 | |
| lab*ncE | 0.25 | 0.5 | r07j | |

| | | | | |
|---|---|---|---|---|
| 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 | 33.82 | 33.67 | 19.79 | |
| LAB*LABa | 33.82 | 33.47 | 19.18 | |
| LAB*TCHa | 25.01 | 38.58 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.204 | 0.434 | 0.249 | |
| lab*tch | 0.25 | 0.5 | 0.083 | |
| lab*nch | 0.5 | 0.5 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.204 | 0.496 | 0.06 | |
| lab*tce | 0.25 | 0.5 | 0.019 | |
| lab*ncE | 0.5 | 0.5 | r07j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 1.0 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.0 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.25 | 0.25 | 1.0 |
| cmyn4* | 0.0 | 0.75 | 0.75 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 61.07 | 49.89 | 31.22 | |
| LAB*LABa | 61.07 | 50.21 | 28.78 | |
| LAB*TCHa | 62.5 | 57.87 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.556 | 0.651 | 0.373 | |
| lab*tch | 0.625 | 0.75 | 0.083 | |
| lab*nch | 0.0 | 0.75 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.556 | 0.745 | 0.09 | |
| lab*tce | 0.625 | 0.75 | 0.019 | |
| lab*ncE | 0.0 | 0.75 | r07j | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.75 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.25 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.25 | 0.25 | 0.75 |
| cmyn4* | 0.0 | 0.75 | 0.75 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 41.73 | 50.26 | 29.91 | |
| LAB*LABa | 41.73 | 50.21 | 28.78 | |
| LAB*TCHa | 37.51 | 57.87 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.306 | 0.651 | 0.373 | |
| lab*tch | 0.375 | 0.75 | 0.083 | |
| lab*nch | 0.25 | 0.75 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.306 | 0.745 | 0.09 | |
| lab*tce | 0.375 | 0.75 | 0.019 | |
| lab*ncE | 0.25 | 0.75 | r07j | |

| | | | | |
|---|---|---|---|---|
| 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 | 49.63 | 66.84 | 40.03 | |
| LAB*LABa | 49.63 | 66.95 | 38.36 | |
| LAB*TCHa | 50.0 | 77.16 | 29.82 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.409 | 0.867 | 0.497 | |
| lab*tch | 0.5 | 1.0 | 0.083 | |
| lab*nch | 0.0 | 1.0 | 0.083 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.409 | 0.993 | 0.119 | |
| lab*tce | 0.5 | 1.0 | 0.019 | |
| lab*ncE | 0.0 | 1.0 | r07j | |

*n** = 0,00

*n** = 0,25

*n** = 0,50

*n** = 1,0

**Schwarzheit *n****

0,25 0,50 0,75 1,00

**relative Buntheit *c****

UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (links)
5 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (rechts)

BAM-Registrierung: 20060101-UG50/10S/S50G00SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen

/UG50/ Form: 1/10, Serie: 1/1, Seite: 1

Seitenzählung 1

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

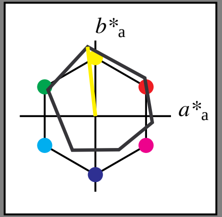
Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton $h^* = lab^*h = 96/360 = 0.268$**
***lab*tch* und *lab*nch***

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

**Dreiecks-Helligkeit $t^*$**



**%Umfang**
**$u^*_{rel} = 93$**

**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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 | – | |

$n^* = 1{,}0$

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 1.0 | 0.75 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 1.0 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 94.14 | −3.51 | 27.61 | |
| LAB*LABa | 94.14 | −2.56 | 22.93 | |
| LAB*TCHa | 87.5 | 23.08 | 96.39 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.984 | −0.027 | 0.248 | |
| lab*tch | 0.875 | 0.25 | 0.268 | |
| lab*nch | 0.0 | 0.25 | 0.268 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.984 | −0.024 | 0.249 | |
| lab*tce | 0.875 | 0.25 | 0.266 | |
| lab*ncE | 0.0 | 0.25 | j06g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.75 | 0.5 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 74.8 | −3.14 | 26.31 | |
| LAB*LABa | 74.8 | −2.56 | 22.94 | |
| LAB*TCHa | 62.5 | 23.09 | 96.39 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.734 | −0.027 | 0.248 | |
| lab*tch | 0.625 | 0.25 | 0.268 | |
| lab*nch | 0.25 | 0.25 | 0.268 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.734 | −0.024 | 0.249 | |
| lab*tce | 0.625 | 0.25 | 0.266 | |
| lab*ncE | 0.25 | 0.25 | j06g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.5 | 0.5 | 0.25 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 0.5 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 55.45 | −2.77 | 25.0 | |
| LAB*LABa | 55.45 | −2.56 | 22.94 | |
| LAB*TCHa | 37.5 | 23.09 | 96.39 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.484 | −0.027 | 0.248 | |
| lab*tch | 0.375 | 0.25 | 0.268 | |
| lab*nch | 0.5 | 0.25 | 0.268 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.484 | −0.024 | 0.249 | |
| lab*tce | 0.375 | 0.25 | 0.266 | |
| lab*ncE | 0.5 | 0.25 | j06g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.25 | 0.25 | 0.0 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 36.1 | −2.4 | 23.69 | |
| LAB*LABa | 36.1 | −2.56 | 22.93 | |
| LAB*TCHa | 12.5 | 23.08 | 96.39 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.234 | −0.027 | 0.248 | |
| lab*tch | 0.125 | 0.25 | 0.268 | |
| lab*nch | 0.75 | 0.25 | 0.268 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.234 | −0.024 | 0.249 | |
| lab*tce | 0.125 | 0.25 | 0.266 | |
| lab*ncE | 0.75 | 0.25 | j06g | |

| 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 | −5.13 | 45.87 | |
| LAB*TCHa | 75.0 | 46.16 | 96.39 | |
| 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* | 0.75 | 0.75 | 0.25 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.5 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.5 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 73.54 | −5.69 | 49.17 | |
| LAB*LABa | 73.54 | −5.13 | 45.88 | |
| LAB*TCHa | 50.0 | 46.17 | 96.39 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.717 | −0.055 | 0.497 | |
| lab*tch | 0.5 | 0.5 | 0.268 | |
| lab*nch | 0.25 | 0.5 | 0.268 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.717 | −0.048 | 0.498 | |
| lab*tce | 0.5 | 0.5 | 0.266 | |
| lab*ncE | 0.25 | 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 | 47.85 | |
| LAB*LABa | 54.19 | −5.13 | 45.87 | |
| LAB*TCHa | 25.01 | 46.16 | 96.39 | |
| 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 | |

$n^* = 0{,}50$

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 1.0 | 0.25 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.25 | 1.0 |
| cmyn4* | 0.0 | 0.0 | 0.75 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 91.62 | −8.6 | 73.32 | |
| LAB*LABa | 91.62 | −7.7 | 68.82 | |
| LAB*TCHa | 62.5 | 69.25 | 96.39 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.951 | −0.082 | 0.745 | |
| lab*tch | 0.625 | 0.75 | 0.268 | |
| lab*nch | 0.0 | 0.75 | 0.268 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.951 | −0.073 | 0.746 | |
| lab*tce | 0.625 | 0.75 | 0.266 | |
| lab*ncE | 0.0 | 0.75 | j06g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.75 | 0.0 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.25 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.75 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 72.28 | −8.23 | 72.01 | |
| LAB*LABa | 72.28 | −7.7 | 68.82 | |
| LAB*TCHa | 37.51 | 69.25 | 96.39 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.701 | −0.082 | 0.745 | |
| lab*tch | 0.375 | 0.75 | 0.268 | |
| lab*nch | 0.25 | 0.75 | 0.268 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.701 | −0.073 | 0.746 | |
| lab*tce | 0.375 | 0.75 | 0.266 | |
| lab*ncE | 0.25 | 0.75 | j06g | |

$n^* = 0{,}25$

| 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 | 90.37 | −11.15 | 96.17 | |
| LAB*LABa | 90.37 | −10.26 | 91.75 | |
| LAB*TCHa | 50.0 | 92.32 | 96.39 | |
| 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 $n^*$**

0,25 0,50 0,75 1,00

**relative Buntheit $c^*$**

1,00
0,75
0,25
0,00

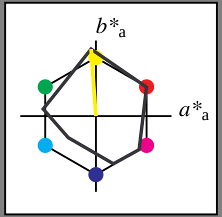
UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (links)

## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton $h^* = lab^*h = 94/360 = 0.261$**
***lab*tch* und *lab*nch***

**D65: Buntton J**
**LCH*Ma: 91 89 94**
**rgb*Ma: 1.0 1.0 0.0**

**Dreiecks-Helligkeit $t^*$**



**%Umfang**
**$u^*_{rel} = 91$**

**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Regularität**
**$g^*_{H,rel} = 41$**
**$g^*_{C,rel} = 52$**

| 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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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 | – | |

$n^* = 1{,}0$

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 1.0 | 0.75 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 1.0 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 94.22 | −2.54 | 26.86 | |
| LAB*LABa | 94.22 | −1.58 | 22.18 | |
| LAB*TCHa | 87.5 | 22.24 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.985 | −0.017 | 0.249 | |
| lab*tch | 0.875 | 0.25 | 0.261 | |
| lab*nch | 0.0 | 0.25 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.985 | −0.011 | 0.25 | |
| lab*tce | 0.875 | 0.25 | 0.258 | |
| lab*ncE | 0.0 | 0.25 | j03g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.75 | 0.5 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 74.88 | −2.17 | 25.56 | |
| LAB*LABa | 74.88 | −1.58 | 22.19 | |
| LAB*TCHa | 62.5 | 22.24 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.735 | −0.017 | 0.249 | |
| lab*tch | 0.625 | 0.25 | 0.261 | |
| lab*nch | 0.25 | 0.25 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.735 | −0.011 | 0.25 | |
| lab*tce | 0.625 | 0.25 | 0.258 | |
| lab*ncE | 0.25 | 0.25 | j03g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.5 | 0.5 | 0.25 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 0.5 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 55.53 | −1.8 | 24.26 | |
| LAB*LABa | 55.53 | −1.58 | 22.19 | |
| LAB*TCHa | 37.5 | 22.24 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.485 | −0.017 | 0.249 | |
| lab*tch | 0.375 | 0.25 | 0.261 | |
| lab*nch | 0.5 | 0.25 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.485 | −0.011 | 0.25 | |
| lab*tce | 0.375 | 0.25 | 0.258 | |
| lab*ncE | 0.5 | 0.25 | j03g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.25 | 0.25 | 0.0 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.75 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.25 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 36.18 | −1.43 | 22.94 | |
| LAB*LABa | 36.18 | −1.58 | 22.18 | |
| LAB*TCHa | 12.5 | 22.24 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.235 | −0.017 | 0.249 | |
| lab*tch | 0.125 | 0.25 | 0.261 | |
| lab*nch | 0.75 | 0.25 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.235 | −0.011 | 0.25 | |
| lab*tce | 0.125 | 0.25 | 0.258 | |
| lab*ncE | 0.75 | 0.25 | j03g | |

| 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 | 93.05 | −4.11 | 48.97 | |
| LAB*LABa | 93.05 | −3.17 | 44.37 | |
| LAB*TCHa | 75.0 | 44.48 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.969 | −0.035 | 0.499 | |
| lab*tch | 0.75 | 0.5 | 0.261 | |
| lab*nch | 0.0 | 0.5 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.969 | −0.023 | 0.499 | |
| lab*tce | 0.75 | 0.5 | 0.258 | |
| lab*ncE | 0.0 | 0.5 | j03g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.75 | 0.25 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.5 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.5 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 73.7 | −3.74 | 47.67 | |
| LAB*LABa | 73.7 | −3.17 | 44.38 | |
| LAB*TCHa | 50.0 | 44.49 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.72 | −0.035 | 0.499 | |
| lab*tch | 0.5 | 0.5 | 0.261 | |
| lab*nch | 0.25 | 0.5 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.72 | −0.023 | 0.499 | |
| lab*tce | 0.5 | 0.5 | 0.258 | |
| lab*ncE | 0.25 | 0.5 | j03g | |

| 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 | 54.35 | −3.37 | 46.36 | |
| LAB*LABa | 54.35 | −3.17 | 44.37 | |
| LAB*TCHa | 25.01 | 44.48 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.47 | −0.035 | 0.499 | |
| lab*tch | 0.25 | 0.5 | 0.261 | |
| lab*nch | 0.5 | 0.5 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.47 | −0.023 | 0.499 | |
| lab*tce | 0.25 | 0.5 | 0.258 | |
| lab*ncE | 0.5 | 0.5 | j03g | |

$n^* = 0{,}50$

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 1.0 | 0.25 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.25 | 1.0 |
| cmyn4* | 0.0 | 0.0 | 0.75 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 91.87 | −5.68 | 71.07 | |
| LAB*LABa | 91.87 | −4.77 | 66.55 | |
| LAB*TCHa | 62.5 | 66.73 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.954 | −0.053 | 0.748 | |
| lab*tch | 0.625 | 0.75 | 0.261 | |
| lab*nch | 0.0 | 0.75 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.954 | −0.036 | 0.749 | |
| lab*tce | 0.625 | 0.75 | 0.258 | |
| lab*ncE | 0.0 | 0.75 | j03g | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.75 | 0.0 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 0.25 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.75 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 72.53 | −5.31 | 69.77 | |
| LAB*LABa | 72.53 | −4.77 | 66.55 | |
| LAB*TCHa | 37.51 | 66.73 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.704 | −0.053 | 0.748 | |
| lab*tch | 0.375 | 0.75 | 0.261 | |
| lab*nch | 0.25 | 0.75 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.704 | −0.036 | 0.749 | |
| lab*tce | 0.375 | 0.75 | 0.258 | |
| lab*ncE | 0.25 | 0.75 | j03g | |

$n^* = 0{,}25$

| 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 | 90.69 | −7.25 | 93.17 | |
| LAB*LABa | 90.69 | −6.36 | 88.73 | |
| LAB*TCHa | 50.0 | 88.96 | 94.1 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.939 | −0.071 | 0.997 | |
| lab*tch | 0.5 | 1.0 | 0.261 | |
| lab*nch | 0.0 | 1.0 | 0.261 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.939 | −0.048 | 0.999 | |
| lab*tce | 0.5 | 1.0 | 0.258 | |
| lab*ncE | 0.0 | 1.0 | j03g | |

$n^* = 0{,}00$

**Schwarzheit $n^*$**

0,25 0,50 0,75 1,00

**relative Buntheit $c^*$**

5 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.261 (rechts)

BAM-Registrierung: 20060101-UG50/10S/S50G01SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen
/UG50/ Form: 2/10, Serie: 1/1, Seite: 2
Seitenzählung 2

## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton *h** = *lab*h* = 151/360 = 0.419**

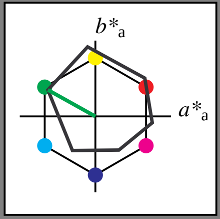
***lab*tch* und *lab*nch***

**D65: Buntton L**

**LCH*Ma: 51 72 151**

**rgb*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 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

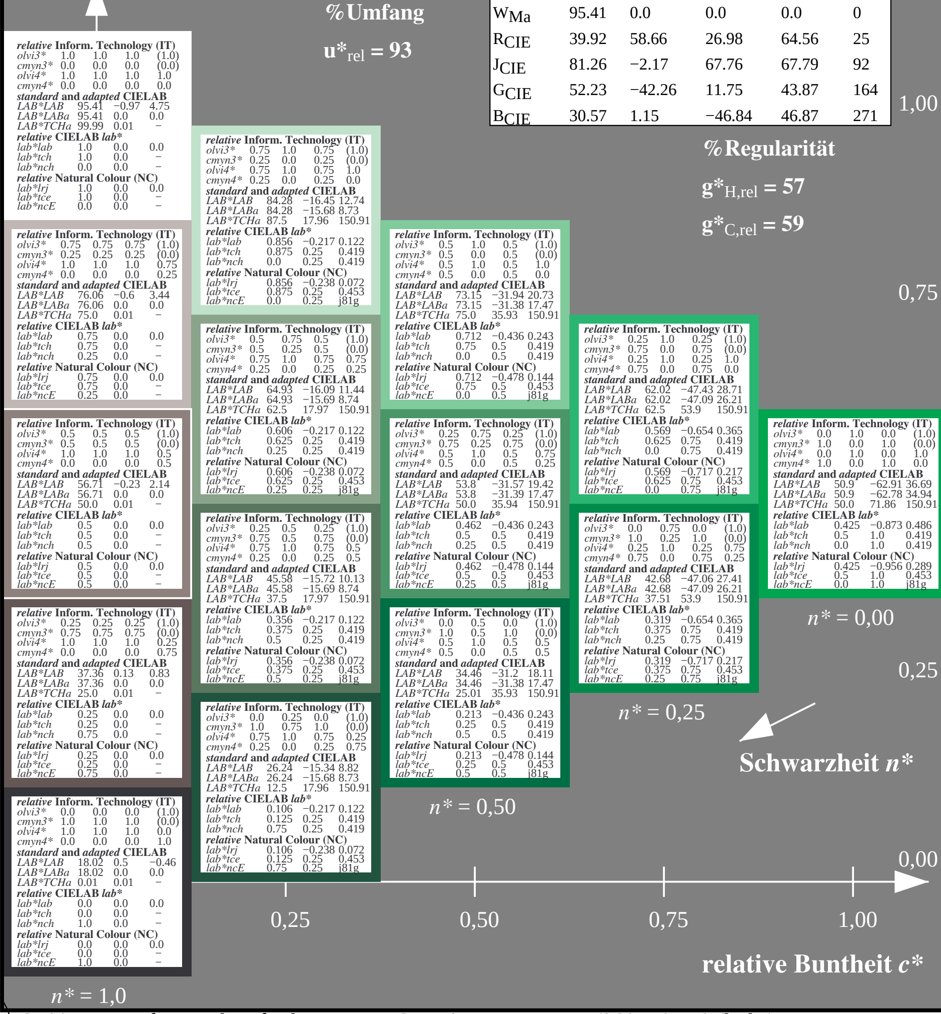
**%Umfang**

**$u^*_{rel}$ = 93**

**%Regularität**

**$g^*_{H,rel}$ = 57**

**$g^*_{C,rel}$ = 59**



## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton *h** = *lab*h* = 172/360 = 0.479**

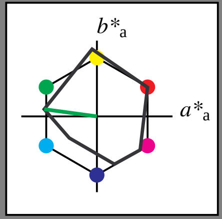
***lab*tch* und *lab*nch***

**D65: Buntton G**

**LCH*Ma: 52 70 172**

**rgb*Ma: 0.0 1.0 0.0**

**Dreiecks-Helligkeit *t****



**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

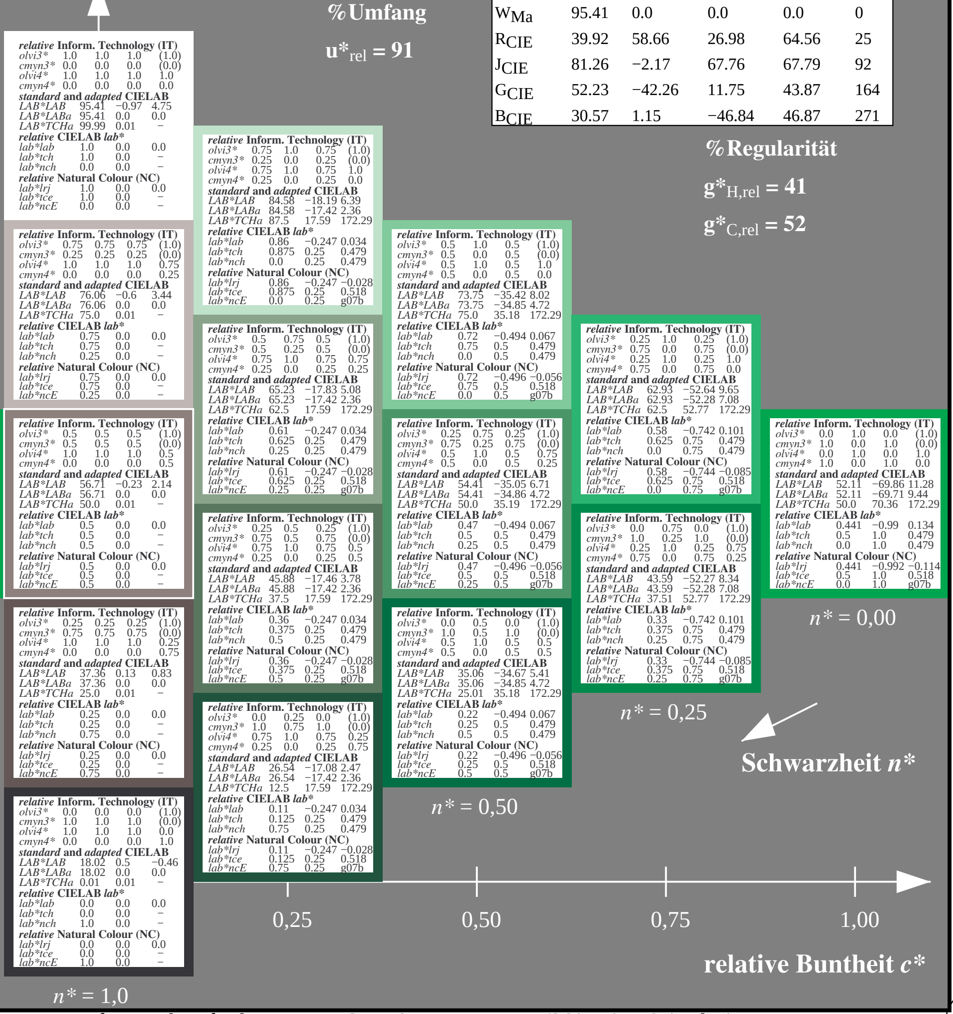
**%Umfang**

**$u^*_{rel}$ = 91**

**%Regularität**

**$g^*_{H,rel}$ = 41**

**$g^*_{C,rel}$ = 52**



UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (links)

5 stufige Reihen für konstanten CIELAB Buntton 172/360 = 0.479 (rechts)

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM-Registrierung: 20060101-UG50/10S/S50G02SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen

www.ps.bam.de/UG50/10S/S50G03SP.PS/.PDF;
S: Ausgabe-Linearisierung (OL-Daten) UG50/10S/S50G03SP.DAT im Distiller Startup (S) Directory

## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton $h^* = lab^*h = 236/360 = 0.656$**

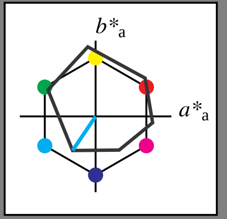
**$lab^*tch$ und $lab^*nch$**

**D65: Buntton C**

**LCH*Ma: 59 54 236**

**rgb*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 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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* | 0.75 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.25 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 1.0 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 86.21 | −8.38 | −7.1 | |
| LAB*LABa | 86.21 | −7.58 | −11.24 | |
| LAB*TCHa | 87.5 | 13.57 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.881 | −0.139 | −0.206 | |
| lab*tch | 0.875 | 0.25 | 0.656 | |
| lab*nch | 0.0 | 0.25 | 0.656 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.881 | −0.123 | −0.216 | |
| lab*tce | 0.875 | 0.25 | 0.667 | |
| lab*ncE | 0.0 | 0.25 | g66b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.5 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.5 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 66.86 | −8.01 | −8.41 | |
| LAB*LABa | 66.86 | −7.58 | −11.25 | |
| LAB*TCHa | 62.5 | 13.58 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.631 | −0.139 | −0.206 | |
| lab*tch | 0.625 | 0.25 | 0.656 | |
| lab*nch | 0.25 | 0.25 | 0.656 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.631 | −0.123 | −0.216 | |
| lab*tce | 0.625 | 0.25 | 0.667 | |
| lab*ncE | 0.25 | 0.25 | g66b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.25 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.75 | 0.5 | 0.5 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 0.5 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 47.51 | −7.64 | −9.72 | |
| LAB*LABa | 47.51 | −7.58 | −11.25 | |
| LAB*TCHa | 37.5 | 13.58 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.381 | −0.139 | −0.206 | |
| lab*tch | 0.375 | 0.25 | 0.656 | |
| lab*nch | 0.5 | 0.25 | 0.656 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.381 | −0.123 | −0.216 | |
| lab*tce | 0.375 | 0.25 | 0.667 | |
| lab*ncE | 0.5 | 0.25 | g66b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.0 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 1.0 | 0.75 | 0.75 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 28.17 | −7.27 | −11.02 | |
| LAB*LABa | 28.17 | −7.58 | −11.24 | |
| LAB*TCHa | 12.5 | 13.57 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.131 | −0.139 | −0.206 | |
| lab*tch | 0.125 | 0.25 | 0.656 | |
| lab*nch | 0.75 | 0.25 | 0.656 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.131 | −0.123 | −0.216 | |
| lab*tce | 0.125 | 0.25 | 0.667 | |
| lab*ncE | 0.75 | 0.25 | g66b | |

| | | | | |
|---|---|---|---|---|
| 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 | −15.79 | −18.98 | |
| LAB*LABa | 77.01 | −15.16 | −22.5 | |
| LAB*TCHa | 75.0 | 27.15 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.762 | −0.278 | −0.413 | |
| 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* | 0.25 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.75 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.5 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.5 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 57.66 | −15.42 | −20.29 | |
| LAB*LABa | 57.66 | −15.17 | −22.5 | |
| LAB*TCHa | 50.0 | 27.15 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.512 | −0.279 | −0.414 | |
| lab*tch | 0.5 | 0.5 | 0.656 | |
| lab*nch | 0.25 | 0.5 | 0.656 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.512 | −0.247 | −0.433 | |
| lab*tce | 0.5 | 0.5 | 0.667 | |
| lab*ncE | 0.25 | 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 | −21.59 | |
| LAB*LABa | 38.32 | −15.16 | −22.5 | |
| LAB*TCHa | 25.01 | 27.15 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.262 | −0.278 | −0.413 | |
| 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* | 0.25 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.75 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.25 | 1.0 | 1.0 | 1.0 |
| cmyn4* | 0.75 | 0.0 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 67.81 | −23.21 | −30.86 | |
| LAB*LABa | 67.81 | −22.75 | −33.75 | |
| LAB*TCHa | 62.5 | 40.72 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.643 | −0.418 | −0.621 | |
| lab*tch | 0.625 | 0.75 | 0.656 | |
| lab*nch | 0.0 | 0.75 | 0.656 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.643 | −0.371 | −0.65 | |
| lab*tce | 0.625 | 0.75 | 0.667 | |
| lab*ncE | 0.0 | 0.75 | g66b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.0 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 1.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.25 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.75 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 48.47 | −22.83 | −32.16 | |
| LAB*LABa | 48.47 | −22.75 | −33.75 | |
| LAB*TCHa | 37.51 | 40.72 | 236.01 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.394 | −0.418 | −0.621 | |
| lab*tch | 0.375 | 0.75 | 0.656 | |
| lab*nch | 0.25 | 0.75 | 0.656 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.394 | −0.371 | −0.65 | |
| lab*tce | 0.375 | 0.75 | 0.667 | |
| lab*ncE | 0.25 | 0.75 | 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 | −30.62 | −42.73 | |
| LAB*LABa | 58.62 | −30.34 | −45.01 | |
| LAB*TCHa | 50.0 | 54.29 | 236.01 | |
| 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 | |

1,00

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

**Schwarzheit $n^*$**

0,25 0,50 0,75 1,00

**relative Buntheit $c^*$**

## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton $h^* = lab^*h = 218/360 = 0.605$**

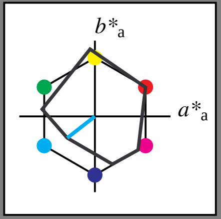
**$lab^*tch$ und $lab^*nch$**

**D65: Buntton G50B**

**LCH*Ma: 45 46 218**

**rgb*Ma: 0.0 1.0 1.0**

**Dreiecks-Helligkeit $t^*$**



**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**

**$u^*_{rel} = 91$**

**%Regularität**

**$g^*_{H,rel} = 41$**

**$g^*_{C,rel} = 52$**

| | | | | |
|---|---|---|---|---|
| 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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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* | 0.75 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.25 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 1.0 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 82.81 | −9.87 | −3.2 | |
| LAB*LABa | 82.81 | −9.13 | −7.11 | |
| LAB*TCHa | 87.5 | 11.58 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.837 | −0.196 | −0.153 | |
| lab*tch | 0.875 | 0.25 | 0.605 | |
| lab*nch | 0.0 | 0.25 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.837 | −0.176 | −0.176 | |
| lab*tce | 0.875 | 0.25 | 0.625 | |
| lab*ncE | 0.0 | 0.25 | g49b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.5 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.5 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 63.46 | −9.5 | −4.51 | |
| LAB*LABa | 63.46 | −9.13 | −7.11 | |
| LAB*TCHa | 62.5 | 11.59 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.587 | −0.196 | −0.153 | |
| lab*tch | 0.625 | 0.25 | 0.605 | |
| lab*nch | 0.25 | 0.25 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.587 | −0.176 | −0.176 | |
| lab*tce | 0.625 | 0.25 | 0.625 | |
| lab*ncE | 0.25 | 0.25 | g49b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.25 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.75 | 0.5 | 0.5 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 0.5 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 44.11 | −9.13 | −5.81 | |
| LAB*LABa | 44.11 | −9.13 | −7.11 | |
| LAB*TCHa | 37.5 | 11.59 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.337 | −0.196 | −0.153 | |
| lab*tch | 0.375 | 0.25 | 0.605 | |
| lab*nch | 0.5 | 0.25 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.337 | −0.176 | −0.176 | |
| lab*tce | 0.375 | 0.25 | 0.625 | |
| lab*ncE | 0.5 | 0.25 | g49b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.0 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 1.0 | 0.75 | 0.75 | (0.0) |
| olvi4* | 0.75 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.25 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 24.77 | −8.76 | −7.12 | |
| LAB*LABa | 24.77 | −9.13 | −7.11 | |
| LAB*TCHa | 12.5 | 11.58 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.087 | −0.196 | −0.153 | |
| lab*tch | 0.125 | 0.25 | 0.605 | |
| lab*nch | 0.75 | 0.25 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.087 | −0.176 | −0.176 | |
| lab*tce | 0.125 | 0.25 | 0.625 | |
| lab*ncE | 0.75 | 0.25 | g49b | |

| | | | | |
|---|---|---|---|---|
| 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 | 70.21 | −18.77 | −11.17 | |
| LAB*LABa | 70.21 | −18.27 | −14.23 | |
| LAB*TCHa | 75.0 | 23.17 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.674 | −0.393 | −0.306 | |
| lab*tch | 0.75 | 0.5 | 0.605 | |
| lab*nch | 0.0 | 0.5 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.674 | −0.353 | −0.352 | |
| lab*tce | 0.75 | 0.5 | 0.625 | |
| lab*ncE | 0.0 | 0.5 | g49b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.25 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.75 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.5 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.5 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 50.87 | −18.4 | −12.48 | |
| LAB*LABa | 50.87 | −18.28 | −14.23 | |
| LAB*TCHa | 50.0 | 23.18 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.425 | −0.394 | −0.306 | |
| lab*tch | 0.5 | 0.5 | 0.605 | |
| lab*nch | 0.25 | 0.5 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.425 | −0.353 | −0.352 | |
| lab*tce | 0.5 | 0.5 | 0.625 | |
| lab*ncE | 0.25 | 0.5 | g49b | |

| | | | | |
|---|---|---|---|---|
| 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 | 31.52 | −18.03 | −13.78 | |
| LAB*LABa | 31.52 | −18.27 | −14.23 | |
| LAB*TCHa | 25.01 | 23.17 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.175 | −0.393 | −0.306 | |
| lab*tch | 0.25 | 0.5 | 0.605 | |
| lab*nch | 0.5 | 0.5 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.175 | −0.353 | −0.352 | |
| lab*tce | 0.25 | 0.5 | 0.625 | |
| lab*ncE | 0.5 | 0.5 | g49b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.25 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.75 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.25 | 1.0 | 1.0 | 1.0 |
| cmyn4* | 0.75 | 0.0 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 57.62 | −27.67 | −19.14 | |
| LAB*LABa | 57.62 | −27.42 | −21.35 | |
| LAB*TCHa | 62.5 | 34.76 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.512 | −0.591 | −0.46 | |
| lab*tch | 0.625 | 0.75 | 0.605 | |
| lab*nch | 0.0 | 0.75 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.512 | −0.529 | −0.529 | |
| lab*tce | 0.625 | 0.75 | 0.625 | |
| lab*ncE | 0.0 | 0.75 | g49b | |

| | | | | |
|---|---|---|---|---|
| relative Inform. Technology (IT) | | | | |
| olvi3* | 0.0 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 1.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.25 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.75 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 38.28 | −27.3 | −20.44 | |
| LAB*LABa | 38.28 | −27.42 | −21.35 | |
| LAB*TCHa | 37.51 | 34.76 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.262 | −0.591 | −0.46 | |
| lab*tch | 0.375 | 0.75 | 0.605 | |
| lab*nch | 0.25 | 0.75 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.262 | −0.529 | −0.529 | |
| lab*tce | 0.375 | 0.75 | 0.625 | |
| lab*ncE | 0.25 | 0.75 | g49b | |

| | | | | |
|---|---|---|---|---|
| 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 | 45.03 | −36.57 | −27.11 | |
| LAB*LABa | 45.03 | −36.56 | −28.47 | |
| LAB*TCHa | 50.0 | 46.35 | 217.91 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.349 | −0.788 | −0.613 | |
| lab*tch | 0.5 | 1.0 | 0.605 | |
| lab*nch | 0.0 | 1.0 | 0.605 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.349 | −0.706 | −0.706 | |
| lab*tce | 0.5 | 1.0 | 0.625 | |
| lab*ncE | 0.0 | 1.0 | g49b | |

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

**Schwarzheit $n^*$**

0,25 0,50 0,75 1,00

**relative Buntheit $c^*$**

UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links)

5 stufige Reihen für konstanten CIELAB Buntton 218/360 = 0.605 (rechts)

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM-Registrierung: 20060101-UG50/10S/S50G03SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen

/UG50/ Form: 4/10, Serie: 1/1, Seite: 4

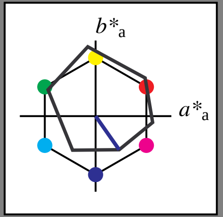
Seitenzählung 4

Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton *h** = *lab*h* = 305/360 = 0.847**
***lab*tch* und *lab*nch***

**D65: Buntton V**
**LCH*Ma: 26 54 305**
**rgb*Ma: 0.0 0.0 1.0**
**Dreiecks-Helligkeit *t****

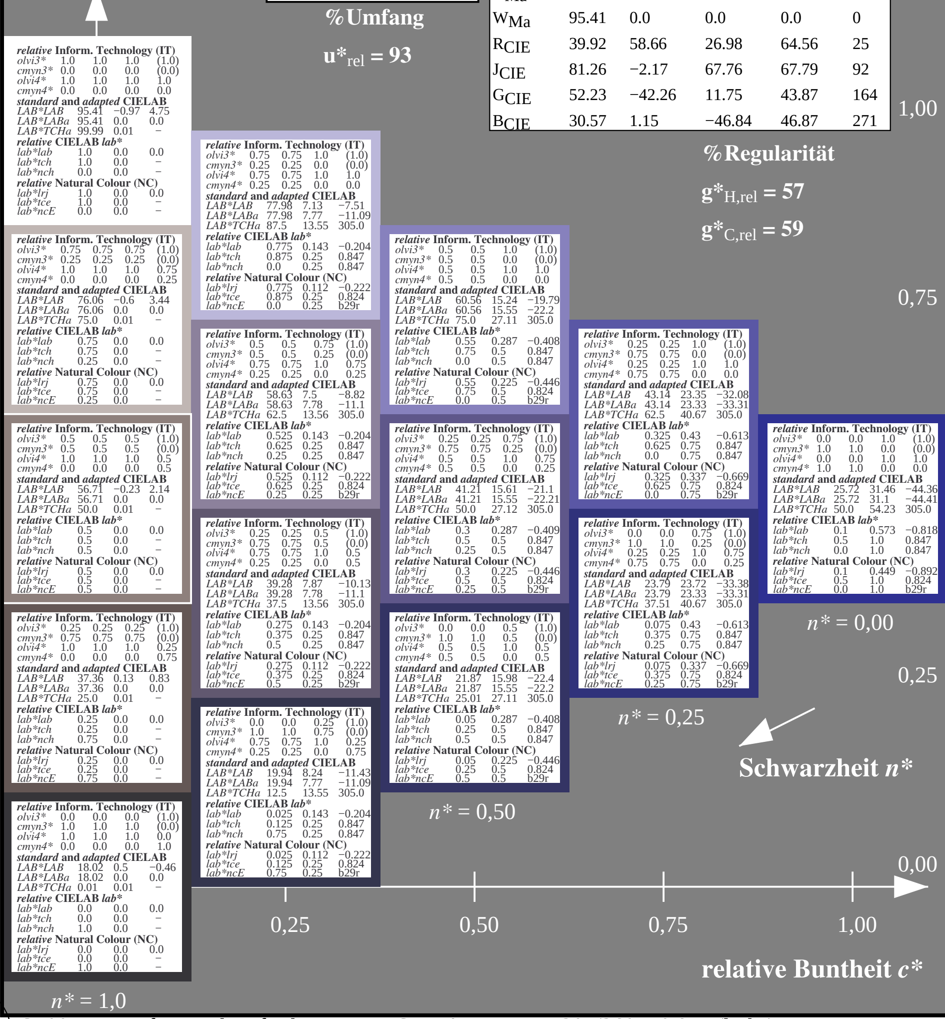


**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**
**$u^*_{rel}$ = 93**

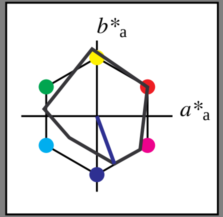
**%Regularität**
**$g^*_{H,rel}$ = 57**
**$g^*_{C,rel}$ = 59**



## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton *h** = *lab*h* = 290/360 = 0.806**
***lab*tch* und *lab*nch***

**D65: Buntton B**
**LCH*Ma: 37 67 290**
**rgb*Ma: 0.0 0.0 1.0**
**Dreiecks-Helligkeit *t****

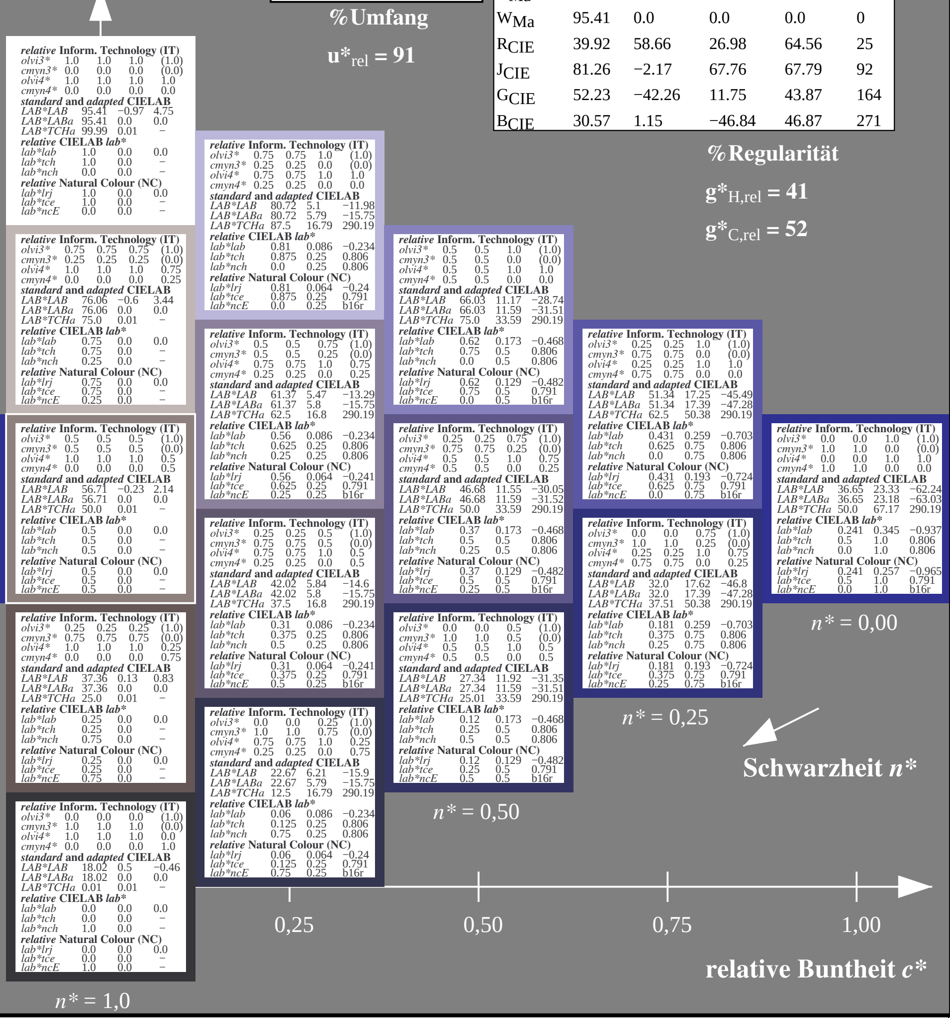


**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**
**$u^*_{rel}$ = 91**

**%Regularität**
**$g^*_{H,rel}$ = 41**
**$g^*_{C,rel}$ = 52**



UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (links)
5 stufige Reihen für konstanten CIELAB Buntton 290/360 = 0.806 (rechts)

BAM-Registrierung: 20060101-UG50/10S/S50G04SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen

/UG50/ Form: 5/10, Serie: 1/1, Seite: 5
Seitenzählung 5

www.ps.bam.de/UG50/10S/S50G05SP.PS/.PDF;
S: Ausgabe-Linearisierung (OL-Daten) UG50/10S/S50G05SP.DAT im Distiller Startup (S) Directory

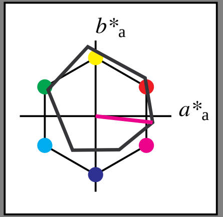
## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton $h^* = lab^*h = 354/360 = 0.982$**

***lab*tch* und *lab*nch***

**D65: Buntton M**
**LCH*Ma: 48 76 354**
**rgb*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 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**

**$u^*_{rel} = 93$**

**%Regularität**

**$g^*_{H,rel} = 57$**

**$g^*_{C,rel} = 59$**

1,00

0,75

0,25

0,00

| 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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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 | – | |

*n** = 1,0

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 0.75 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.25 | 0.0 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 1.0 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 83.59 | 18.06 | 1.87 | |
| LAB*LABa | 83.59 | 18.81 | −2.08 | |
| LAB*TCHa | 87.5 | 18.92 | 353.66 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.847 | 0.248 | −0.027 | |
| lab*tch | 0.875 | 0.25 | 0.982 | |
| lab*nch | 0.0 | 0.25 | 0.982 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.847 | 0.227 | −0.103 | |
| lab*tce | 0.875 | 0.25 | 0.932 | |
| lab*ncE | 0.0 | 0.25 | b72r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.5 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.5 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 64.24 | 18.43 | 0.56 | |
| LAB*LABa | 64.24 | 18.82 | −2.08 | |
| LAB*TCHa | 62.5 | 18.93 | 353.66 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.597 | 0.248 | −0.027 | |
| lab*tch | 0.625 | 0.25 | 0.982 | |
| lab*nch | 0.25 | 0.25 | 0.982 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.597 | 0.227 | −0.103 | |
| lab*tce | 0.625 | 0.25 | 0.932 | |
| lab*ncE | 0.25 | 0.25 | b72r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.5 | 0.25 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.75 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 0.5 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 44.89 | 18.8 | −0.73 | |
| LAB*LABa | 44.89 | 18.82 | −2.08 | |
| LAB*TCHa | 37.5 | 18.93 | 353.66 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.347 | 0.248 | −0.027 | |
| lab*tch | 0.375 | 0.25 | 0.982 | |
| lab*nch | 0.5 | 0.25 | 0.982 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.347 | 0.227 | −0.103 | |
| lab*tce | 0.375 | 0.25 | 0.932 | |
| lab*ncE | 0.5 | 0.25 | b72r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.25 | 0.0 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 1.0 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 25.54 | 19.17 | −2.04 | |
| LAB*LABa | 25.54 | 18.81 | −2.08 | |
| LAB*TCHa | 12.5 | 18.92 | 353.66 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.097 | 0.248 | −0.027 | |
| lab*tch | 0.125 | 0.25 | 0.982 | |
| lab*nch | 0.75 | 0.25 | 0.982 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.097 | 0.227 | −0.103 | |
| lab*tce | 0.125 | 0.25 | 0.932 | |
| lab*ncE | 0.75 | 0.25 | b72r | |

| 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* | 0.75 | 0.25 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.75 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.5 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.5 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 52.42 | 37.48 | −2.31 | |
| LAB*LABa | 52.42 | 37.63 | −4.17 | |
| LAB*TCHa | 50.0 | 37.86 | 353.66 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.445 | 0.497 | −0.054 | |
| lab*tch | 0.5 | 0.5 | 0.982 | |
| lab*nch | 0.25 | 0.5 | 0.982 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.445 | 0.454 | −0.208 | |
| lab*tce | 0.5 | 0.5 | 0.932 | |
| lab*ncE | 0.25 | 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 | 33.08 | 37.84 | −3.62 | |
| LAB*LABa | 33.08 | 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 | |

*n** = 0,50

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 0.25 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.75 | 0.0 | (0.0) |
| olvi4* | 1.0 | 0.25 | 1.0 | 1.0 |
| cmyn4* | 0.0 | 0.75 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 59.95 | 56.14 | −3.9 | |
| LAB*LABa | 59.95 | 56.44 | −6.26 | |
| LAB*TCHa | 62.5 | 56.79 | 353.66 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.542 | 0.745 | −0.082 | |
| lab*tch | 0.625 | 0.75 | 0.982 | |
| lab*nch | 0.0 | 0.75 | 0.982 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.542 | 0.682 | −0.312 | |
| lab*tce | 0.625 | 0.75 | 0.932 | |
| lab*ncE | 0.0 | 0.75 | b72r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.0 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 1.0 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.25 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.75 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 40.61 | 56.51 | −5.2 | |
| LAB*LABa | 40.61 | 56.44 | −6.26 | |
| LAB*TCHa | 37.51 | 56.79 | 353.66 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.292 | 0.745 | −0.082 | |
| lab*tch | 0.375 | 0.75 | 0.982 | |
| lab*nch | 0.25 | 0.75 | 0.982 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.292 | 0.682 | −0.312 | |
| lab*tce | 0.375 | 0.75 | 0.932 | |
| lab*ncE | 0.25 | 0.75 | b72r | |

*n** = 0,25

| 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 | 48.14 | 75.18 | −6.78 | |
| LAB*LABa | 48.14 | 75.25 | −8.35 | |
| LAB*TCHa | 50.0 | 75.71 | 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 0,75 1,00

**relative Buntheit *c****

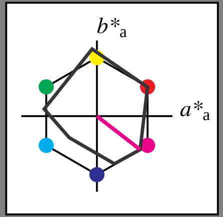
## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton $h^* = lab^*h = 322/360 = 0.895$**

***lab*tch* und *lab*nch***

**D65: Buntton B50R**
**LCH*Ma: 35 72 322**
**rgb*Ma: 1.0 0.0 1.0**

**Dreiecks-Helligkeit $t^*$**



**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**

**$u^*_{rel} = 91$**

**%Regularität**

**$g^*_{H,rel} = 41$**

**$g^*_{C,rel} = 52$**

| 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 | −0.97 | 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* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 76.06 | −0.6 | 3.44 | |
| LAB*LABa | 76.06 | 0.0 | 0.0 | |
| LAB*TCHa | 75.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.75 | 0.0 | 0.0 | |
| lab*tch | 0.75 | 0.0 | – | |
| lab*nch | 0.25 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.75 | 0.0 | 0.0 | |
| lab*tce | 0.75 | 0.0 | – | |
| lab*ncE | 0.25 | 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 | −0.23 | 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* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 37.36 | 0.13 | 0.83 | |
| LAB*LABa | 37.36 | 0.0 | 0.0 | |
| LAB*TCHa | 25.0 | 0.01 | – | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.25 | 0.0 | 0.0 | |
| lab*tch | 0.25 | 0.0 | – | |
| lab*nch | 0.75 | 0.0 | – | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.25 | 0.0 | 0.0 | |
| lab*tce | 0.25 | 0.0 | – | |
| lab*ncE | 0.75 | 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 | −0.46 | |
| 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 | – | |

*n** = 1,0

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 0.75 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.25 | 0.0 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 1.0 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 80.29 | 13.6 | −7.31 | |
| LAB*LABa | 80.29 | 14.29 | −11.05 | |
| LAB*TCHa | 87.5 | 18.07 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.805 | 0.198 | −0.152 | |
| lab*tch | 0.875 | 0.25 | 0.895 | |
| lab*nch | 0.0 | 0.25 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.805 | 0.162 | −0.189 | |
| lab*tce | 0.875 | 0.25 | 0.862 | |
| lab*ncE | 0.0 | 0.25 | b44r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.5 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.5 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 60.94 | 13.97 | −8.62 | |
| LAB*LABa | 60.94 | 14.29 | −11.06 | |
| LAB*TCHa | 62.5 | 18.08 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.555 | 0.198 | −0.152 | |
| lab*tch | 0.625 | 0.25 | 0.895 | |
| lab*nch | 0.25 | 0.25 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.555 | 0.162 | −0.189 | |
| lab*tce | 0.625 | 0.25 | 0.862 | |
| lab*ncE | 0.25 | 0.25 | b44r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.5 | 0.25 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.75 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 0.5 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.5 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 41.59 | 14.34 | −9.93 | |
| LAB*LABa | 41.59 | 14.29 | −11.06 | |
| LAB*TCHa | 37.5 | 18.08 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.305 | 0.198 | −0.152 | |
| lab*tch | 0.375 | 0.25 | 0.895 | |
| lab*nch | 0.5 | 0.25 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.305 | 0.162 | −0.189 | |
| lab*tce | 0.375 | 0.25 | 0.862 | |
| lab*ncE | 0.5 | 0.25 | b44r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.25 | 0.0 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 1.0 | 0.75 | (0.0) |
| olvi4* | 1.0 | 0.75 | 1.0 | 0.25 |
| cmyn4* | 0.0 | 0.25 | 0.0 | 0.75 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 22.25 | 14.71 | −11.23 | |
| LAB*LABa | 22.25 | 14.29 | −11.05 | |
| LAB*TCHa | 12.5 | 18.07 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.055 | 0.198 | −0.152 | |
| lab*tch | 0.125 | 0.25 | 0.895 | |
| lab*nch | 0.75 | 0.25 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.055 | 0.162 | −0.189 | |
| lab*tce | 0.125 | 0.25 | 0.862 | |
| lab*ncE | 0.75 | 0.25 | b44r | |

| 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 | 65.17 | 28.18 | −19.4 | |
| LAB*LABa | 65.17 | 28.58 | −22.12 | |
| LAB*TCHa | 75.0 | 36.15 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.609 | 0.395 | −0.305 | |
| lab*tch | 0.75 | 0.5 | 0.895 | |
| lab*nch | 0.0 | 0.5 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.609 | 0.324 | −0.38 | |
| lab*tce | 0.75 | 0.5 | 0.862 | |
| lab*ncE | 0.0 | 0.5 | b44r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.25 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.75 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.5 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.5 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 45.83 | 28.56 | −20.71 | |
| LAB*LABa | 45.83 | 28.59 | −22.12 | |
| LAB*TCHa | 50.0 | 36.15 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.359 | 0.395 | −0.305 | |
| lab*tch | 0.5 | 0.5 | 0.895 | |
| lab*nch | 0.25 | 0.5 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.359 | 0.324 | −0.38 | |
| lab*tce | 0.5 | 0.5 | 0.862 | |
| lab*ncE | 0.25 | 0.5 | b44r | |

| 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 | 26.48 | 28.92 | −22.01 | |
| LAB*LABa | 26.48 | 28.58 | −22.12 | |
| LAB*TCHa | 25.01 | 36.15 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.109 | 0.395 | −0.305 | |
| lab*tch | 0.25 | 0.5 | 0.895 | |
| lab*nch | 0.5 | 0.5 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.109 | 0.324 | −0.38 | |
| lab*tce | 0.25 | 0.5 | 0.862 | |
| lab*ncE | 0.5 | 0.5 | b44r | |

*n** = 0,50

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 1.0 | 0.25 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.75 | 0.0 | (0.0) |
| olvi4* | 1.0 | 0.25 | 1.0 | 1.0 |
| cmyn4* | 0.0 | 0.75 | 0.0 | 0.0 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 50.06 | 42.76 | −31.49 | |
| LAB*LABa | 50.06 | 42.87 | −33.19 | |
| LAB*TCHa | 62.5 | 54.22 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.414 | 0.593 | −0.458 | |
| lab*tch | 0.625 | 0.75 | 0.895 | |
| lab*nch | 0.0 | 0.75 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.414 | 0.486 | −0.57 | |
| lab*tce | 0.625 | 0.75 | 0.862 | |
| lab*ncE | 0.0 | 0.75 | b44r | |

| relative Inform. Technology (IT) | | | | |
|---|---|---|---|---|
| olvi3* | 0.75 | 0.0 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 1.0 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.25 | 1.0 | 0.75 |
| cmyn4* | 0.0 | 0.75 | 0.0 | 0.25 |
| standard and adapted CIELAB | | | | |
| LAB*LAB | 30.72 | 43.13 | −32.79 | |
| LAB*LABa | 30.72 | 42.87 | −33.19 | |
| LAB*TCHa | 37.51 | 54.22 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.164 | 0.593 | −0.458 | |
| lab*tch | 0.375 | 0.75 | 0.895 | |
| lab*nch | 0.25 | 0.75 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.164 | 0.486 | −0.57 | |
| lab*tce | 0.375 | 0.75 | 0.862 | |
| lab*ncE | 0.25 | 0.75 | b44r | |

*n** = 0,25

| 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 | 34.95 | 57.34 | −43.57 | |
| LAB*LABa | 34.95 | 57.16 | −44.25 | |
| LAB*TCHa | 50.0 | 72.29 | 322.25 | |
| relative CIELAB lab* | | | | |
| lab*lab | 0.219 | 0.791 | −0.611 | |
| lab*tch | 0.5 | 1.0 | 0.895 | |
| lab*nch | 0.0 | 1.0 | 0.895 | |
| relative Natural Colour (NC) | | | | |
| lab*lrj | 0.219 | 0.648 | −0.76 | |
| lab*tce | 0.5 | 1.0 | 0.862 | |
| lab*ncE | 0.0 | 1.0 | b44r | |

*n** = 0,00

**Schwarzheit *n****

0,25 0,50 0,75 1,00

**relative Buntheit *c****

UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (links) 5 stufige Reihen für konstanten CIELAB Buntton 322/360 = 0.895 (rechts)

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM-Registrierung: 20060101-UG50/10S/S50G05SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen

www.ps.bam.de/UG50/10S/S50G06SP.PS/.PDF;
S: Ausgabe-Linearisierung (OL-Daten) UG50/10S/S50G06SP.DAT im Distiller Startup (S) Directory

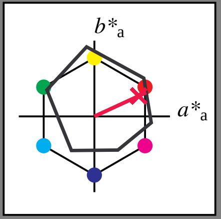
Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton *h** = *lab*h* = 25/360 = 0.069**
***lab*tch* und *lab*nch***

**D65: Buntton R**
**LCH*Ma: 48 75 25**
**rgb*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 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 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 | −0.97 | 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** | 0.75 | 0.75 | 0.75 | (1.0) |
| *cmyn3** | 0.25 | 0.25 | 0.25 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.75 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 76.06 | −0.6 | 3.44 | |
| *LAB*LABa* | 76.06 | 0.0 | 0.0 | |
| *LAB*TCHa* | 75.0 | 0.01 | − | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.75 | 0.0 | 0.0 | |
| *lab*tch* | 0.75 | 0.0 | − | |
| *lab*nch* | 0.25 | 0.0 | − | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.75 | 0.0 | 0.0 | |
| *lab*tce* | 0.75 | 0.0 | − | |
| *lab*ncE* | 0.25 | 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 | −0.23 | 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** | 0.25 | 0.25 | 0.25 | (1.0) |
| *cmyn3** | 0.75 | 0.75 | 0.75 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.25 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.75 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 37.36 | 0.13 | 0.83 | |
| *LAB*LABa* | 37.36 | 0.0 | 0.0 | |
| *LAB*TCHa* | 25.0 | 0.01 | − | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.25 | 0.0 | 0.0 | |
| *lab*tch* | 0.25 | 0.0 | − | |
| *lab*nch* | 0.75 | 0.0 | − | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.25 | 0.0 | 0.0 | |
| *lab*tce* | 0.25 | 0.0 | − | |
| *lab*ncE* | 0.75 | 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 | −0.46 | |
| *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 | − | |

*n** = 1,0

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 1.0 | 0.75 | 0.831 | (1.0) |
| *cmyn3** | 0.0 | 0.25 | 0.169 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.831 | 1.0 |
| *cmyn4** | 0.0 | 0.25 | 0.169 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 83.55 | 16.38 | 11.84 | |
| *LAB*LABa* | 83.55 | 17.13 | 7.88 | |
| *LAB*TCHa* | 87.5 | 18.86 | 24.69 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.847 | 0.227 | 0.104 | |
| *lab*tch* | 0.875 | 0.25 | 0.069 | |
| *lab*nch* | 0.0 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.847 | 0.25 | 0.0 | |
| *lab*tce* | 0.875 | 0.25 | 1.0 | |
| *lab*ncE* | 0.0 | 0.25 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.75 | 0.5 | 0.581 | (1.0) |
| *cmyn3** | 0.25 | 0.5 | 0.419 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.831 | 0.75 |
| *cmyn4** | 0.0 | 0.25 | 0.169 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 64.21 | 16.76 | 10.54 | |
| *LAB*LABa* | 64.21 | 17.14 | 7.88 | |
| *LAB*TCHa* | 62.5 | 18.87 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.597 | 0.227 | 0.104 | |
| *lab*tch* | 0.625 | 0.25 | 0.069 | |
| *lab*nch* | 0.25 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.597 | 0.25 | 0.0 | |
| *lab*tce* | 0.625 | 0.25 | 1.0 | |
| *lab*ncE* | 0.25 | 0.25 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.5 | 0.25 | 0.331 | (1.0) |
| *cmyn3** | 0.5 | 0.75 | 0.669 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.831 | 0.5 |
| *cmyn4** | 0.0 | 0.25 | 0.169 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 44.86 | 17.13 | 9.23 | |
| *LAB*LABa* | 44.86 | 17.14 | 7.88 | |
| *LAB*TCHa* | 37.5 | 18.87 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.347 | 0.227 | 0.104 | |
| *lab*tch* | 0.375 | 0.25 | 0.069 | |
| *lab*nch* | 0.5 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.347 | 0.25 | 0.0 | |
| *lab*tce* | 0.375 | 0.25 | 1.0 | |
| *lab*ncE* | 0.5 | 0.25 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.25 | 0.0 | 0.081 | (1.0) |
| *cmyn3** | 0.75 | 1.0 | 0.919 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.831 | 0.25 |
| *cmyn4** | 0.0 | 0.25 | 0.169 | 0.75 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 25.51 | 17.49 | 7.93 | |
| *LAB*LABa* | 25.51 | 17.13 | 7.88 | |
| *LAB*TCHa* | 12.5 | 18.86 | 24.71 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.097 | 0.227 | 0.104 | |
| *lab*tch* | 0.125 | 0.25 | 0.069 | |
| *lab*nch* | 0.75 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.097 | 0.25 | 0.0 | |
| *lab*tce* | 0.125 | 0.25 | 0.0 | |
| *lab*ncE* | 0.75 | 0.25 | r00j | |

| | | | | |
|---|---|---|---|---|
| ***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 | 34.27 | 15.76 | |
| *LAB*TCHa* | 75.0 | 37.72 | 24.69 | |
| ***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** | 0.75 | 0.25 | 0.411 | (1.0) |
| *cmyn3** | 0.25 | 0.75 | 0.589 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.661 | 0.75 |
| *cmyn4** | 0.0 | 0.5 | 0.339 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 52.36 | 34.13 | 17.62 | |
| *LAB*LABa* | 52.36 | 34.28 | 15.77 | |
| *LAB*TCHa* | 50.0 | 37.73 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.444 | 0.454 | 0.209 | |
| *lab*tch* | 0.5 | 0.5 | 0.069 | |
| *lab*nch* | 0.25 | 0.5 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.444 | 0.5 | 0.0 | |
| *lab*tce* | 0.5 | 0.5 | 1.0 | |
| *lab*ncE* | 0.25 | 0.5 | b100r | |

| | | | | |
|---|---|---|---|---|
| ***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 | 34.27 | 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 | |

*n** = 0,50

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 1.0 | 0.25 | 0.492 | (1.0) |
| *cmyn3** | 0.0 | 0.75 | 0.508 | (0.0) |
| *olvi4** | 1.0 | 0.25 | 0.492 | 1.0 |
| *cmyn4** | 0.0 | 0.75 | 0.508 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 59.85 | 51.12 | 26.0 | |
| *LAB*LABa* | 59.85 | 51.42 | 23.64 | |
| *LAB*TCHa* | 62.5 | 56.59 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.541 | 0.681 | 0.313 | |
| *lab*tch* | 0.625 | 0.75 | 0.069 | |
| *lab*nch* | 0.0 | 0.75 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.541 | 0.75 | 0.0 | |
| *lab*tce* | 0.625 | 0.75 | 1.0 | |
| *lab*ncE* | 0.0 | 0.75 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.75 | 0.0 | 0.242 | (1.0) |
| *cmyn3** | 0.25 | 1.0 | 0.758 | (0.0) |
| *olvi4** | 1.0 | 0.25 | 0.492 | 0.75 |
| *cmyn4** | 0.0 | 0.75 | 0.508 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 40.51 | 51.49 | 24.7 | |
| *LAB*LABa* | 40.51 | 51.41 | 23.65 | |
| *LAB*TCHa* | 37.51 | 56.59 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.291 | 0.681 | 0.313 | |
| *lab*tch* | 0.375 | 0.75 | 0.069 | |
| *lab*nch* | 0.25 | 0.75 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.291 | 0.75 | 0.0 | |
| *lab*tce* | 0.375 | 0.75 | 0.0 | |
| *lab*ncE* | 0.25 | 0.75 | r00j | |

*n** = 0,25

| | | | | |
|---|---|---|---|---|
| ***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 | 0.323 | 1.0 |
| *cmyn4** | 0.0 | 1.0 | 0.677 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 48.01 | 68.48 | 33.09 | |
| *LAB*LABa* | 48.01 | 68.55 | 31.53 | |
| *LAB*TCHa* | 50.0 | 75.45 | 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***

1,00
0,75
0,25
0,00

0,25 0,50 0,75 1,00

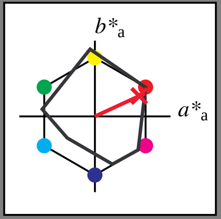
**relative Buntheit *c***

## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton *h** = *lab*h* = 25/360 = 0.069**
***lab*tch* und *lab*nch***

**D65: Buntton R**
**LCH*Ma: 48 73 25**
**rgb*Ma: 1.0 0.0 0.1**

**Dreiecks-Helligkeit *t***



| MRS18; adaptierte CIELAB-Daten | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**
**$u^*_{rel}$ = 91**

**%Regularität**
**$g^*_{H,rel}$ = 41**
**$g^*_{C,rel}$ = 52**

| | | | | |
|---|---|---|---|---|
| ***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 | −0.97 | 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** | 0.75 | 0.75 | 0.75 | (1.0) |
| *cmyn3** | 0.25 | 0.25 | 0.25 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.75 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 76.06 | −0.6 | 3.44 | |
| *LAB*LABa* | 76.06 | 0.0 | 0.0 | |
| *LAB*TCHa* | 75.0 | 0.01 | − | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.75 | 0.0 | 0.0 | |
| *lab*tch* | 0.75 | 0.0 | − | |
| *lab*nch* | 0.25 | 0.0 | − | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.75 | 0.0 | 0.0 | |
| *lab*tce* | 0.75 | 0.0 | − | |
| *lab*ncE* | 0.25 | 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 | −0.23 | 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** | 0.25 | 0.25 | 0.25 | (1.0) |
| *cmyn3** | 0.75 | 0.75 | 0.75 | (0.0) |
| *olvi4** | 1.0 | 1.0 | 1.0 | 0.25 |
| *cmyn4** | 0.0 | 0.0 | 0.0 | 0.75 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 37.36 | 0.13 | 0.83 | |
| *LAB*LABa* | 37.36 | 0.0 | 0.0 | |
| *LAB*TCHa* | 25.0 | 0.01 | − | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.25 | 0.0 | 0.0 | |
| *lab*tch* | 0.25 | 0.0 | − | |
| *lab*nch* | 0.75 | 0.0 | − | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.25 | 0.0 | 0.0 | |
| *lab*tce* | 0.25 | 0.0 | − | |
| *lab*ncE* | 0.75 | 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 | −0.46 | |
| *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 | − | |

*n** = 1,0

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 1.0 | 0.75 | 0.774 | (1.0) |
| *cmyn3** | 0.0 | 0.25 | 0.226 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.774 | 1.0 |
| *cmyn4** | 0.0 | 0.25 | 0.226 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 83.6 | 15.74 | 11.55 | |
| *LAB*LABa* | 83.6 | 16.5 | 7.59 | |
| *LAB*TCHa* | 87.5 | 18.16 | 24.69 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.847 | 0.227 | 0.104 | |
| *lab*tch* | 0.875 | 0.25 | 0.069 | |
| *lab*nch* | 0.0 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.847 | 0.25 | 0.0 | |
| *lab*tce* | 0.875 | 0.25 | 1.0 | |
| *lab*ncE* | 0.0 | 0.25 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.75 | 0.5 | 0.524 | (1.0) |
| *cmyn3** | 0.25 | 0.5 | 0.476 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.774 | 0.75 |
| *cmyn4** | 0.0 | 0.25 | 0.226 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 64.26 | 16.12 | 10.25 | |
| *LAB*LABa* | 64.26 | 16.5 | 7.59 | |
| *LAB*TCHa* | 62.5 | 18.16 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.598 | 0.227 | 0.104 | |
| *lab*tch* | 0.625 | 0.25 | 0.069 | |
| *lab*nch* | 0.25 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.598 | 0.25 | 0.0 | |
| *lab*tce* | 0.625 | 0.25 | 1.0 | |
| *lab*ncE* | 0.25 | 0.25 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.5 | 0.25 | 0.274 | (1.0) |
| *cmyn3** | 0.5 | 0.75 | 0.726 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.774 | 0.5 |
| *cmyn4** | 0.0 | 0.25 | 0.226 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 44.91 | 16.49 | 8.94 | |
| *LAB*LABa* | 44.91 | 16.5 | 7.59 | |
| *LAB*TCHa* | 37.5 | 18.16 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.348 | 0.227 | 0.104 | |
| *lab*tch* | 0.375 | 0.25 | 0.069 | |
| *lab*nch* | 0.5 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.348 | 0.25 | 0.0 | |
| *lab*tce* | 0.375 | 0.25 | 1.0 | |
| *lab*ncE* | 0.5 | 0.25 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.25 | 0.0 | 0.024 | (1.0) |
| *cmyn3** | 0.75 | 1.0 | 0.976 | (0.0) |
| *olvi4** | 1.0 | 0.75 | 0.774 | 0.25 |
| *cmyn4** | 0.0 | 0.25 | 0.226 | 0.75 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 25.56 | 16.86 | 7.64 | |
| *LAB*LABa* | 25.56 | 16.5 | 7.59 | |
| *LAB*TCHa* | 12.5 | 18.16 | 24.72 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.098 | 0.227 | 0.104 | |
| *lab*tch* | 0.125 | 0.25 | 0.069 | |
| *lab*nch* | 0.75 | 0.25 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.098 | 0.25 | 0.0 | |
| *lab*tce* | 0.125 | 0.25 | 0.0 | |
| *lab*ncE* | 0.75 | 0.25 | r00j | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 1.0 | 0.5 | 0.548 | (1.0) |
| *cmyn3** | 0.0 | 0.5 | 0.452 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.549 | 1.0 |
| *cmyn4** | 0.0 | 0.5 | 0.451 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 71.8 | 32.47 | 18.34 | |
| *LAB*LABa* | 71.8 | 33.0 | 15.17 | |
| *LAB*TCHa* | 75.0 | 36.32 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.695 | 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* | 0.695 | 0.5 | 0.0 | |
| *lab*tce* | 0.75 | 0.5 | 1.0 | |
| *lab*ncE* | 0.0 | 0.5 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.75 | 0.25 | 0.298 | (1.0) |
| *cmyn3** | 0.25 | 0.75 | 0.702 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.548 | 0.75 |
| *cmyn4** | 0.0 | 0.5 | 0.452 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 52.46 | 32.85 | 17.04 | |
| *LAB*LABa* | 52.46 | 33.01 | 15.18 | |
| *LAB*TCHa* | 50.0 | 36.33 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.445 | 0.454 | 0.209 | |
| *lab*tch* | 0.5 | 0.5 | 0.069 | |
| *lab*nch* | 0.25 | 0.5 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.445 | 0.5 | 0.0 | |
| *lab*tce* | 0.5 | 0.5 | 1.0 | |
| *lab*ncE* | 0.25 | 0.5 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.5 | 0.0 | 0.048 | (1.0) |
| *cmyn3** | 0.5 | 1.0 | 0.952 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.548 | 0.5 |
| *cmyn4** | 0.0 | 0.5 | 0.452 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 33.11 | 33.21 | 15.74 | |
| *LAB*LABa* | 33.11 | 33.0 | 15.18 | |
| *LAB*TCHa* | 25.01 | 36.33 | 24.71 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.195 | 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* | 0.195 | 0.5 | 0.0 | |
| *lab*tce* | 0.25 | 0.5 | 0.0 | |
| *lab*ncE* | 0.5 | 0.5 | r00j | |

*n** = 0,50

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 1.0 | 0.25 | 0.323 | (1.0) |
| *cmyn3** | 0.0 | 0.75 | 0.677 | (0.0) |
| *olvi4** | 1.0 | 0.25 | 0.323 | 1.0 |
| *cmyn4** | 0.0 | 0.75 | 0.677 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 60.0 | 49.2 | 25.13 | |
| *LAB*LABa* | 60.0 | 49.5 | 22.76 | |
| *LAB*TCHa* | 62.5 | 54.49 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.543 | 0.681 | 0.313 | |
| *lab*tch* | 0.625 | 0.75 | 0.069 | |
| *lab*nch* | 0.0 | 0.75 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.543 | 0.75 | 0.0 | |
| *lab*tce* | 0.625 | 0.75 | 1.0 | |
| *lab*ncE* | 0.0 | 0.75 | b99r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.75 | 0.0 | 0.073 | (1.0) |
| *cmyn3** | 0.25 | 1.0 | 0.927 | (0.0) |
| *olvi4** | 1.0 | 0.25 | 0.323 | 0.75 |
| *cmyn4** | 0.0 | 0.75 | 0.677 | 0.25 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 40.66 | 49.57 | 23.84 | |
| *LAB*LABa* | 40.66 | 49.5 | 22.77 | |
| *LAB*TCHa* | 37.51 | 54.49 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.293 | 0.681 | 0.313 | |
| *lab*tch* | 0.375 | 0.75 | 0.069 | |
| *lab*nch* | 0.25 | 0.75 | 0.069 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.293 | 0.75 | 0.0 | |
| *lab*tce* | 0.375 | 0.75 | 0.0 | |
| *lab*ncE* | 0.25 | 0.75 | r00j | |

*n** = 0,25

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 1.0 | 0.0 | 0.097 | (1.0) |
| *cmyn3** | 0.0 | 1.0 | 0.903 | (0.0) |
| *olvi4** | 1.0 | 0.0 | 0.097 | 1.0 |
| *cmyn4** | 0.0 | 1.0 | 0.903 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 48.21 | 65.92 | 31.93 | |
| *LAB*LABa* | 48.21 | 66.0 | 30.36 | |
| *LAB*TCHa* | 50.0 | 72.65 | 24.7 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.39 | 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* | 0.39 | 1.0 | 0.0 | |
| *lab*tce* | 0.5 | 1.0 | 0.0 | |
| *lab*ncE* | 0.0 | 1.0 | r00j | |

*n** = 0,00

**Schwarzheit *n***

1,00
0,75
0,25
0,00

0,25 0,50 0,75 1,00

**relative Buntheit *c***

UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)
5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (rechts)

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

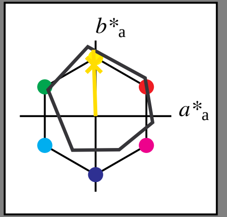
BAM-Registrierung: 20060101-UG50/10S/S50G06SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen

www.ps.bam.de/UG50/10S/S50G07SP.PS/.PDF;
S: Ausgabe-Linearisierung (OL-Daten) UG50/10S/S50G07SP.DAT im Distiller Startup (S) Directory

## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton *h** = *lab*h* = 92/360 = 0.255**
***lab*tch* und *lab*nch***

**D65: Buntton J**
**LCH*Ma: 86 88 92**
**rgb*Ma: 1.0 0.9 0.0**
**Dreiecks-Helligkeit *t***

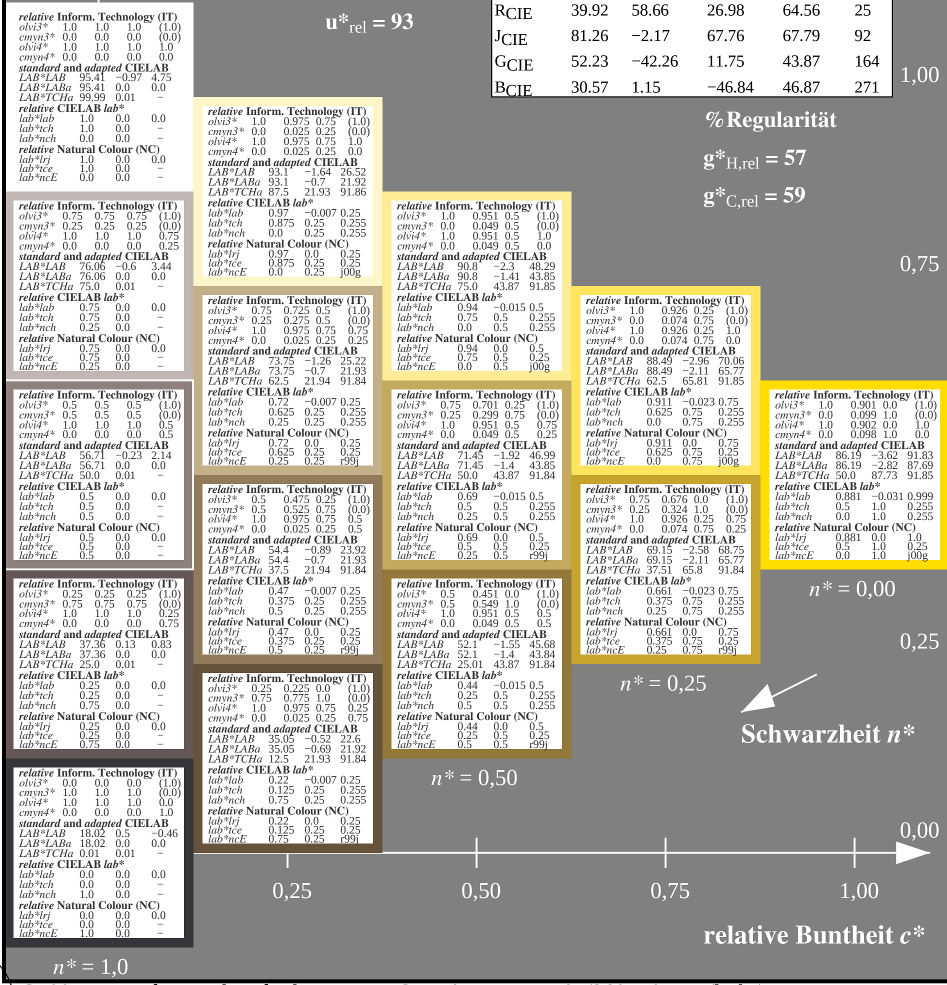


**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**
**$u^*_{rel}$ = 93**

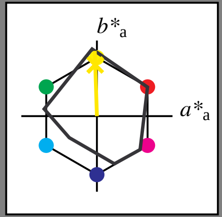
**%Regularität**
**$g^*_{H,rel}$ = 57**
**$g^*_{C,rel}$ = 59**



## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton *h** = *lab*h* = 92/360 = 0.255**
***lab*tch* und *lab*nch***

**D65: Buntton J**
**LCH*Ma: 89 86 92**
**rgb*Ma: 1.0 0.95 0.0**
**Dreiecks-Helligkeit *t***

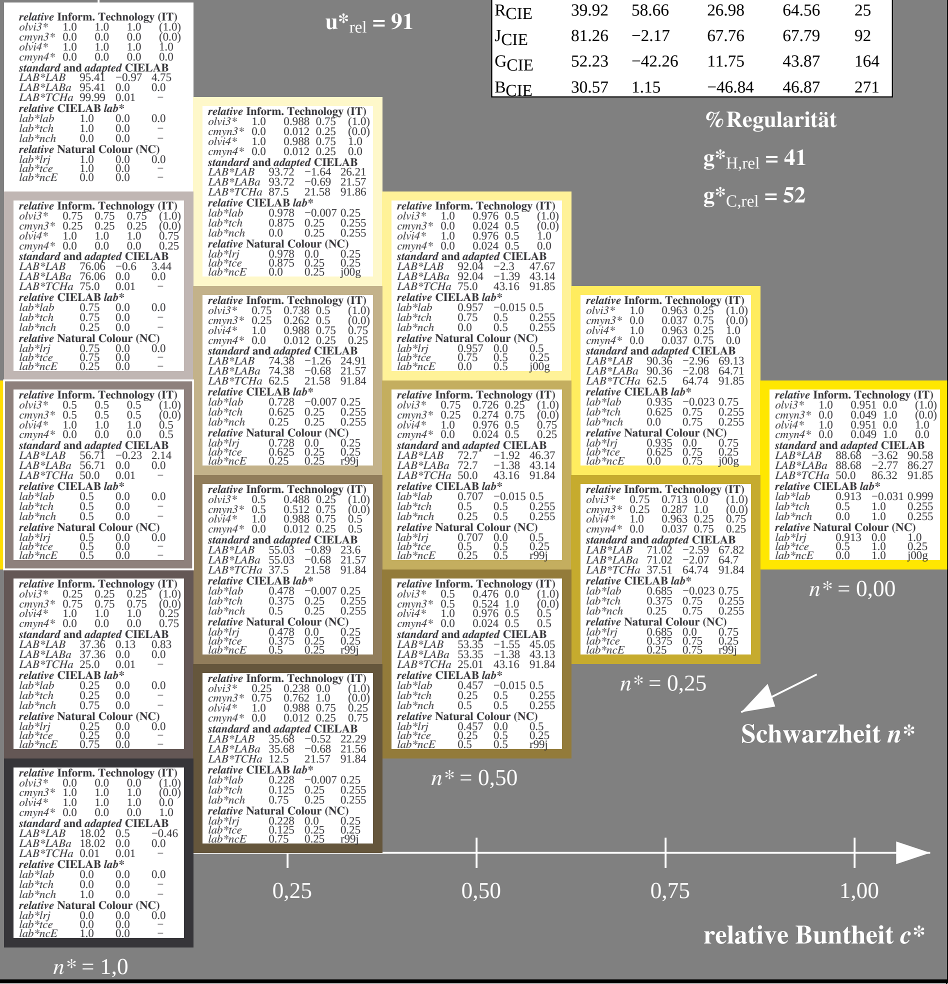


**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**
**$u^*_{rel}$ = 91**

**%Regularität**
**$g^*_{H,rel}$ = 41**
**$g^*_{C,rel}$ = 52**



UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (links) 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (rechts)

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: *Startup (S) data dependend*

Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM-Registrierung: 20060101-UG50/10S/S50G07SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen

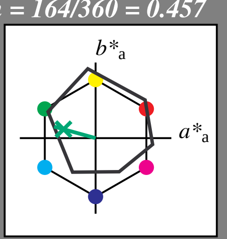
/UG50/ Form: 8/10, Serie: 1/1, Seite: 8

Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

## Eingabe: Farbmetrisches Reflexions-System ORS18

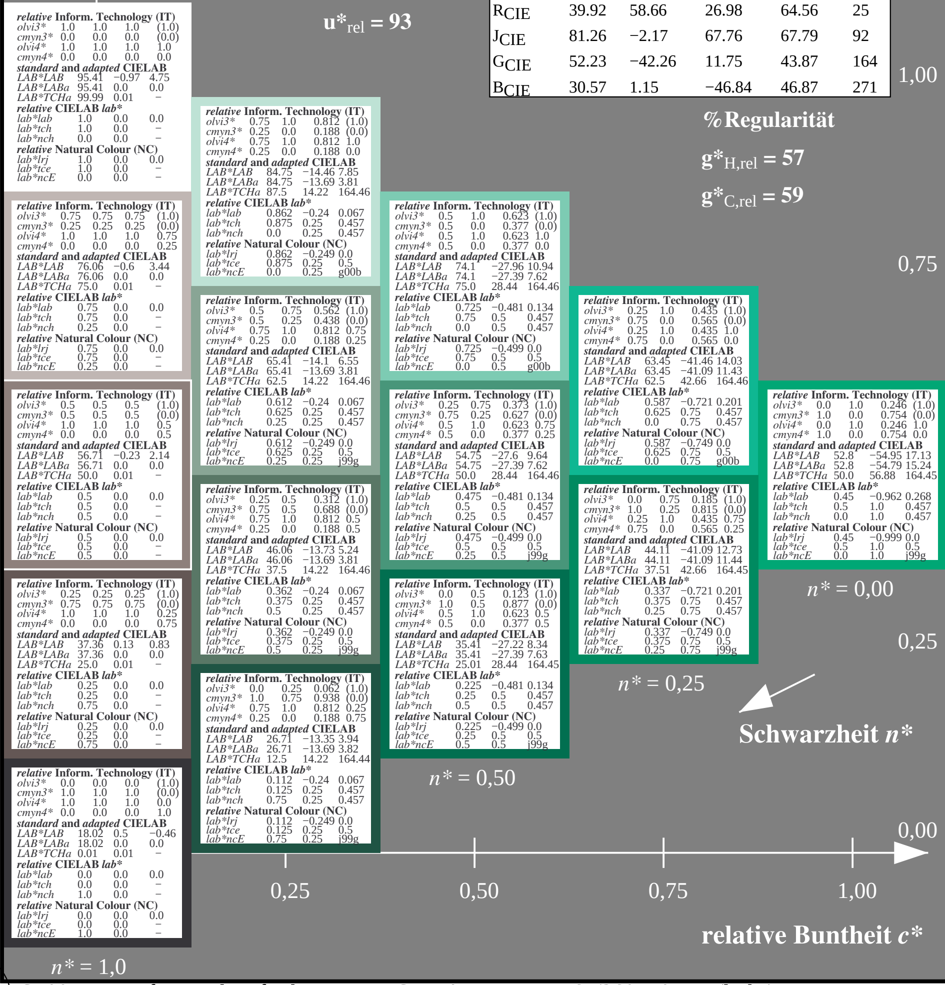
**für Buntton *h** = *lab*h* = *164/360* = *0.457***
***lab*tch* und *lab*nch***

**D65: Buntton G**
**LCH*Ma: 53 57 164**
**rgb*Ma: 0.0 1.0 0.25**
**Dreiecks-Helligkeit *t***



**ORS18; adaptierte CIELAB-Daten**

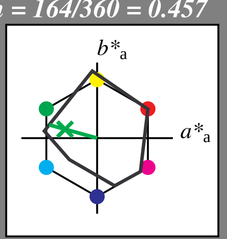
| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |



## Ausgabe: Farbmetrisches Reflexions-System MRS18

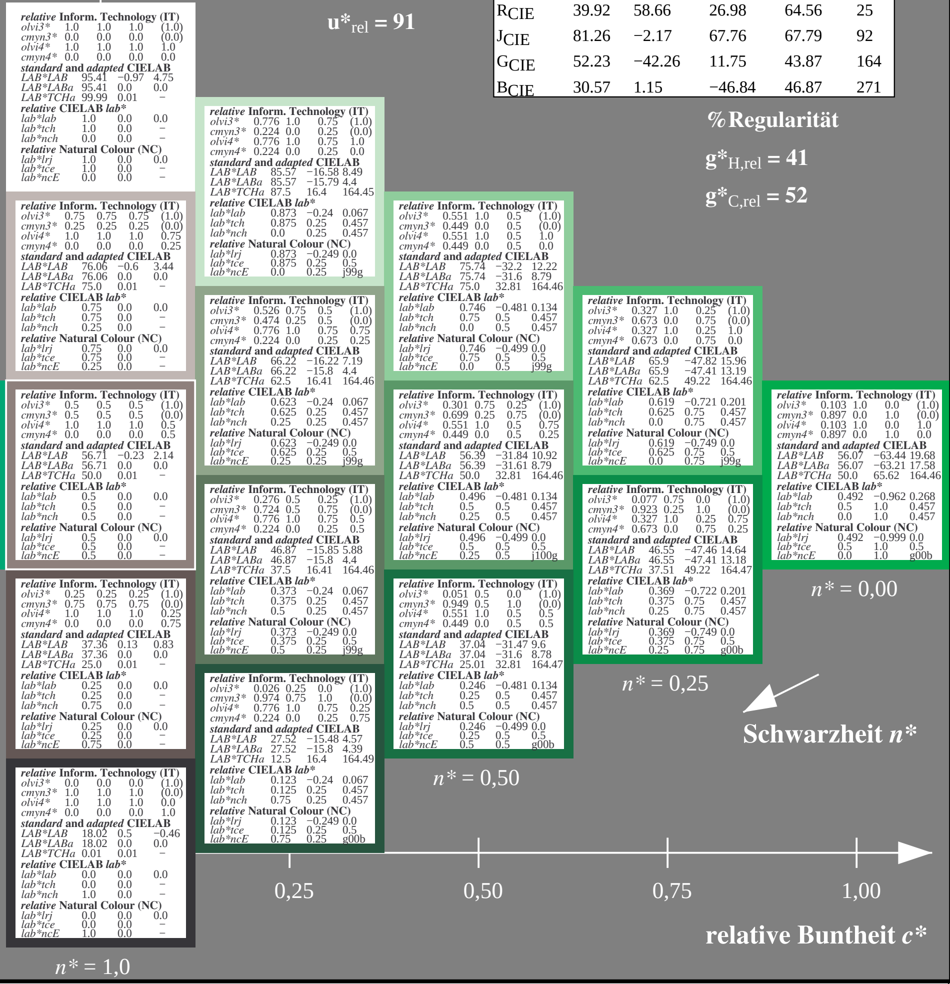
**für Buntton *h** = *lab*h* = *164/360* = *0.457***
***lab*tch* und *lab*nch***

**D65: Buntton G**
**LCH*Ma: 56 66 164**
**rgb*Ma: 0.1 1.0 0.0**
**Dreiecks-Helligkeit *t***



**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |



UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (links)
5 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (rechts)

BAM-Registrierung: 20060101-UG50/10S/S50G08SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: *Startup (S) data dependend*

www.ps.bam.de/UG50/10S/S50G09SP.PS/.PDF;
S: Ausgabe-Linearisierung (OL-Daten) UG50/10S/S50G09SP.DAT im Distiller Startup (S) Directory

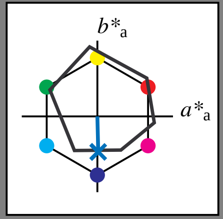
Siehe ähnliche Dateien: http://www.ps.bam.de/UG50/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0?

## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton *h** = *lab*h* = 271/360 = 0.754**
***lab*tch* und *lab*nch***

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

**Dreiecks-Helligkeit *t***

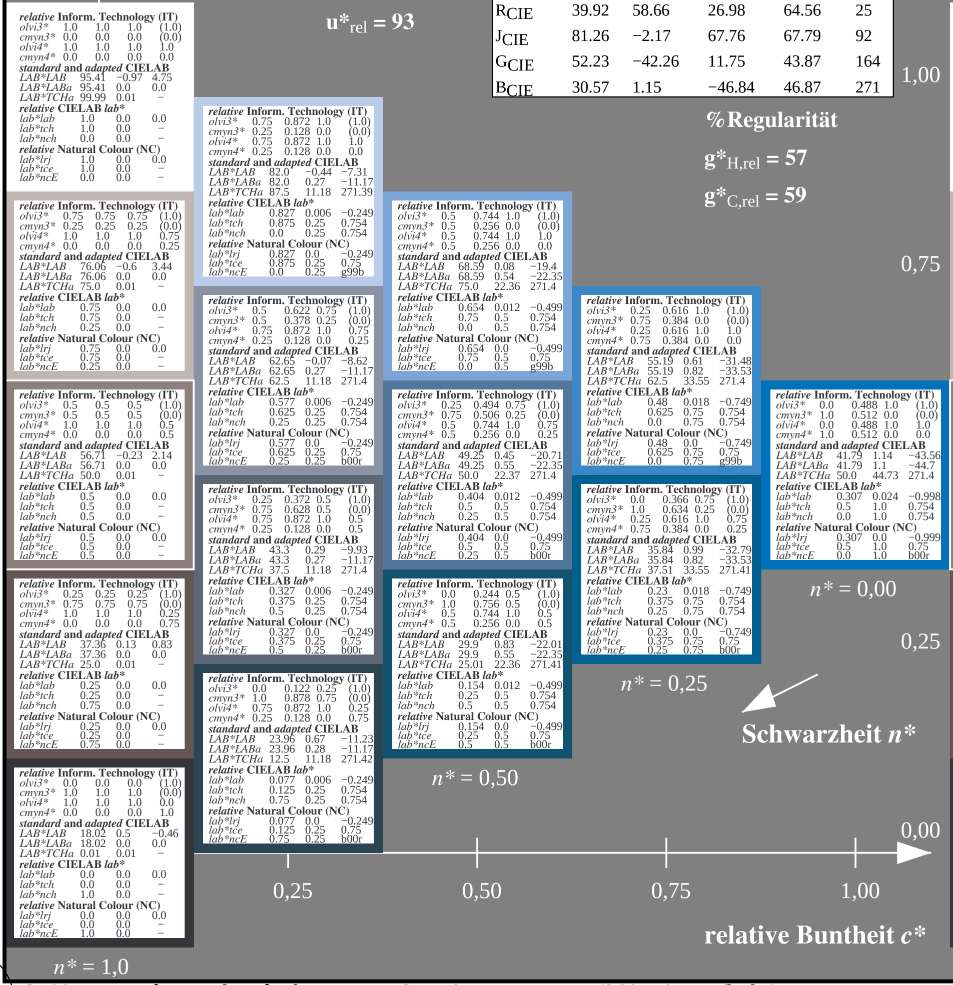


**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 50.52 | 82.62 | 38 |
| $Y_{Ma}$ | 90.37 | −10.27 | 91.77 | 92.34 | 96 |
| $L_{Ma}$ | 50.9 | −62.79 | 34.95 | 71.87 | 151 |
| $C_{Ma}$ | 58.62 | −30.35 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.71 | 31.11 | −44.42 | 54.24 | 305 |
| $M_{Ma}$ | 48.13 | 75.27 | −8.35 | 75.73 | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**
**$u^*_{rel}$ = 93**

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

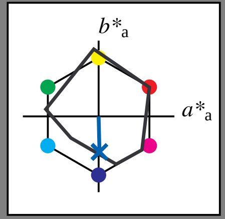


## Ausgabe: Farbmetrisches Reflexions-System MRS18

**für Buntton *h** = *lab*h* = 271/360 = 0.754**
***lab*tch* und *lab*nch***

**D65: Buntton B**
**LCH*Ma: 40 50 271**
**rgb*Ma: 0.0 0.37 1.0**

**Dreiecks-Helligkeit *t***

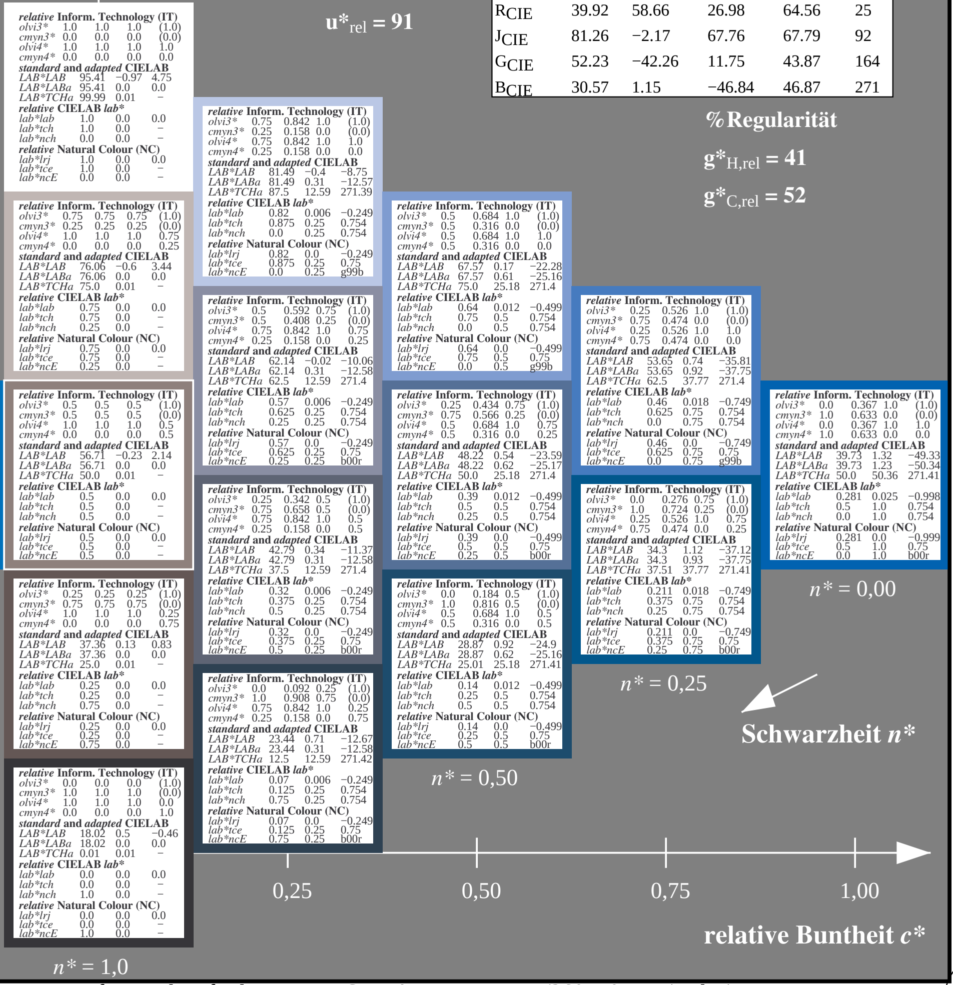


**MRS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $R_{Ma}$ | 49.63 | 66.96 | 38.37 | 77.18 | 30 |
| $J_{Ma}$ | 90.7 | −6.36 | 88.75 | 88.98 | 94 |
| $G_{Ma}$ | 52.11 | −69.73 | 9.44 | 70.37 | 172 |
| $G50B_{Ma}$ | 45.03 | −36.57 | −28.47 | 46.36 | 218 |
| $B_{Ma}$ | 36.65 | 23.19 | −63.05 | 67.18 | 290 |
| $B50R_{Ma}$ | 34.94 | 57.17 | −44.26 | 72.31 | 322 |
| $N_{Ma}$ | 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 | 64.56 | 25 |
| $J_{CIE}$ | 81.26 | −2.17 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.26 | 11.75 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.87 | 271 |

**%Umfang**
**$u^*_{rel}$ = 91**

**%Regularität**
**$g^*_{H,rel}$ = 41**
**$g^*_{C,rel}$ = 52**



UG500−7, 5 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (links)
5 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (rechts)

BAM-Prüfvorlage UG50; Farbmetrik-Systeme ORS18 & ORS18 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: *Startup (S) data dependend*

BAM-Registrierung: 20060101-UG50/10S/S50G09SP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen