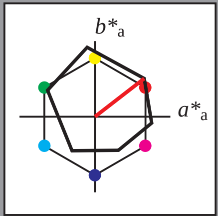
## Eingabe: Farbmetrisches Reflexions-System ORS18

**für Buntton $h^* = lab^*h = 38/360 = 0.105$**
***lab*tch* und *lab*nch***

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

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




**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** 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** 0.5 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** 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

**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** 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 –

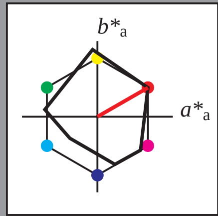
$n^* = 0{,}00$
**Schwarzheit $n^*$**
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
**relative Buntheit $c^*$**
$n^* = 1{,}0$

## 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**
**olv*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** 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** 0.5 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** 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

**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** 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 –

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

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (links)
3 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (rechts)



Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

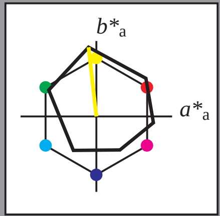
BAM-Registrierung: 20060101-UG10/10L/L10G00FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen, Yr=2.5, XYZ
/UG10/ Form: 1/10, Serie: 1/1, Seite: 1 Seitenzählung 1

## 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**
**olv*Ma: 1.0 1.0 0.0**

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




**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** | 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** | 0.5 | 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** | 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 | |

| | | | | |
|---|---|---|---|---|
| ***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 | |

| | | | | |
|---|---|---|---|---|
| ***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 | – | |

$n^* = 0{,}00$

**Schwarzheit $n^*$**

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

**relative Buntheit $c^*$**

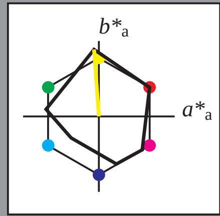
$n^* = 1{,}0$

## 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**
**olv*Ma: 1.0 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**
**$g^*_{H,rel} = 41$**
**$g^*_{C,rel} = 52$**

| | | | | |
|---|---|---|---|---|
| ***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** | 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** | 0.5 | 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** | 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 | |

| | | | | |
|---|---|---|---|---|
| ***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 | |

| | | | | |
|---|---|---|---|---|
| ***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 | – | |

$n^* = 0{,}00$

**Schwarzheit $n^*$**

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

**relative Buntheit $c^*$**

$n^* = 1{,}0$

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (links)
3 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.261 (rechts)



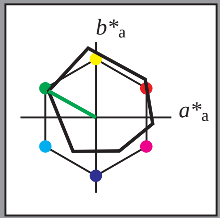
Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ
BAM-Registrierung: 20060101-UG10/10L/L10G01FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen, Yr=2.5, XYZ
/UG10/ Form: 2/10, Serie: 1/1, Seite: 2
Seitenzählung 2

Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

**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**
**olv*Ma: 0.0 1.0 0.0**

**Dreiecks-Helligkeit *t****




**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** | 0.5 | 1.0 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.5 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.5 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 73.15 | −31.94 | 20.73 | |
| *LAB*LABa* | 73.15 | −31.38 | 17.47 | |
| *LAB*TCHa* | 75.0 | 35.93 | 150.91 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.712 | −0.436 | 0.243 | |
| *lab*tch* | 0.75 | 0.5 | 0.419 | |
| *lab*nch* | 0.0 | 0.5 | 0.419 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.712 | −0.478 | 0.144 | |
| *lab*tce* | 0.75 | 0.5 | 0.453 | |
| *lab*ncE* | 0.0 | 0.5 | j81g | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.5 | 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** | 0.0 | 1.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 0.0 | 1.0 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 0.0 | 1.0 |
| *cmyn4** | 1.0 | 0.0 | 1.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 50.9 | −62.91 | 36.69 | |
| *LAB*LABa* | 50.9 | −62.78 | 34.94 | |
| *LAB*TCHa* | 50.0 | 71.86 | 150.91 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.425 | −0.873 | 0.486 | |
| *lab*tch* | 0.5 | 1.0 | 0.419 | |
| *lab*nch* | 0.0 | 1.0 | 0.419 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.425 | −0.956 | 0.289 | |
| *lab*tce* | 0.5 | 1.0 | 0.453 | |
| *lab*ncE* | 0.0 | 1.0 | j81g | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.0 | 0.5 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 0.5 | 1.0 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.5 | 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.5 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 34.46 | −31.2 | 18.11 | |
| *LAB*LABa* | 34.46 | −31.38 | 17.47 | |
| *LAB*TCHa* | 25.01 | 35.93 | 150.91 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.213 | −0.436 | 0.243 | |
| *lab*tch* | 0.25 | 0.5 | 0.419 | |
| *lab*nch* | 0.5 | 0.5 | 0.419 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.213 | −0.478 | 0.144 | |
| *lab*tce* | 0.25 | 0.5 | 0.453 | |
| *lab*ncE* | 0.5 | 0.5 | j81g | |

*n** = 0,00

**Schwarzheit *n****

| | | | | |
|---|---|---|---|---|
| ***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 | – | |

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

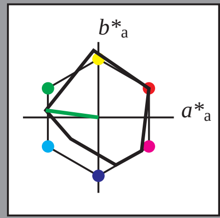
**relative Buntheit *c****

*n** = 1,0

**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**
**olv*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**

| | | | | |
|---|---|---|---|---|
| ***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** | 0.5 | 1.0 | 0.5 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.5 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.5 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 73.75 | −35.42 | 8.02 | |
| *LAB*LABa* | 73.75 | −34.85 | 4.72 | |
| *LAB*TCHa* | 75.0 | 35.18 | 172.29 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.72 | −0.494 | 0.067 | |
| *lab*tch* | 0.75 | 0.5 | 0.479 | |
| *lab*nch* | 0.0 | 0.5 | 0.479 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.72 | −0.496 | −0.056 | |
| *lab*tce* | 0.75 | 0.5 | 0.518 | |
| *lab*ncE* | 0.0 | 0.5 | g07b | |

| | | | | |
|---|---|---|---|---|
| ***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** | 0.0 | 1.0 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 0.0 | 1.0 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 0.0 | 1.0 |
| *cmyn4** | 1.0 | 0.0 | 1.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 52.11 | −69.86 | 11.28 | |
| *LAB*LABa* | 52.11 | −69.71 | 9.44 | |
| *LAB*TCHa* | 50.0 | 70.36 | 172.29 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.441 | −0.99 | 0.134 | |
| *lab*tch* | 0.5 | 1.0 | 0.479 | |
| *lab*nch* | 0.0 | 1.0 | 0.479 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.441 | −0.992 | −0.114 | |
| *lab*tce* | 0.5 | 1.0 | 0.518 | |
| *lab*ncE* | 0.0 | 1.0 | g07b | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.0 | 0.5 | 0.0 | (1.0) |
| *cmyn3** | 1.0 | 0.5 | 1.0 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.5 | 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.5 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 35.06 | −34.67 | 5.41 | |
| *LAB*LABa* | 35.06 | −34.85 | 4.72 | |
| *LAB*TCHa* | 25.01 | 35.18 | 172.29 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.22 | −0.494 | 0.067 | |
| *lab*tch* | 0.25 | 0.5 | 0.479 | |
| *lab*nch* | 0.5 | 0.5 | 0.479 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.22 | −0.496 | −0.056 | |
| *lab*tce* | 0.25 | 0.5 | 0.518 | |
| *lab*ncE* | 0.5 | 0.5 | g07b | |

*n** = 0,00

**Schwarzheit *n****

| | | | | |
|---|---|---|---|---|
| ***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 | – | |

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

**relative Buntheit *c****

*n** = 1,0

BAM-Registrierung: 20060101-UG10/10L/L10G02FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen, Yr=2.5, XYZ
/UG10/ Form: 3/10, Serie: 1/1, Seite: 3 Seitenz hlung 3

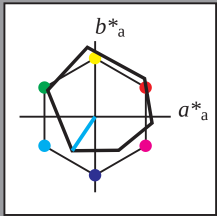
UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (links)
3 stufige Reihen für konstanten CIELAB Buntton 172/360 = 0.479 (rechts)

Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

**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**
**olv*Ma: 0.0 1.0 1.0**

**Dreiecks-Helligkeit *t****




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

| ORS18; adaptierte CIELAB-Daten | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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 |

**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* 0.5 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* 0.5 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* 0.0 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

**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

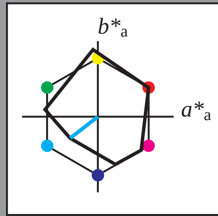
**relative** Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
**standard and adapted** CIELAB
LAB*LAB 18.02 0.5 −0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 –
**relative** CIELAB *lab**
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 –
lab*nch 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* = 0,00
**Schwarzheit *n****
0,25 0,50 n* = 0,50 0,75 1,00
**relative Buntheit *c****
n* = 1,0

**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**
**olv*Ma: 0.0 1.0 1.0**

**Dreiecks-Helligkeit *t****




**%Umfang**
**u*rel = 91**
**%Regularität**
**g*H,rel = 41**
**g*C,rel = 52**

| 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 |

**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* 0.5 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* 0.5 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* 0.0 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

**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* 0.0 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* = 0,00
**Schwarzheit *n****
0,25 0,50 n* = 0,50 0,75 1,00
**relative Buntheit *c****
n* = 1,0

BAM-Registrierung: 20060101-UG10/10L/L10G03FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen, Yr=2,5, XYZ

/UG10/ Form: 4/10, Serie: 1/1, Seite: 4 Seitenz hlung 4

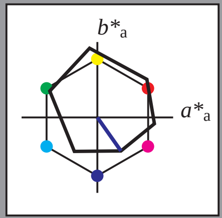
UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links) 3 stufige Reihen für konstanten CIELAB Buntton 218/360 = 0.605 (rechts)

Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

**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**
**olv*Ma: 0.0 0.0 1.0**

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




| ORS18; adaptierte CIELAB-Daten | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** | 0.5 | 0.5 | 1.0 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.0 | (0.0) |
| *olvi4** | 0.5 | 0.5 | 1.0 | 1.0 |
| *cmyn4** | 0.5 | 0.5 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 60.56 | 15.24 | −19.79 | |
| *LAB*LABa* | 60.56 | 15.55 | −22.2 | |
| *LAB*TCHa* | 75.0 | 27.11 | 305.0 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.55 | 0.287 | −0.408 | |
| *lab*tch* | 0.75 | 0.5 | 0.847 | |
| *lab*nch* | 0.0 | 0.5 | 0.847 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.55 | 0.225 | −0.446 | |
| *lab*tce* | 0.75 | 0.5 | 0.824 | |
| *lab*ncE* | 0.0 | 0.5 | b29r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.5 | 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** | 0.0 | 0.0 | 1.0 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 0.0 | (0.0) |
| *olvi4** | 0.0 | 0.0 | 1.0 | 1.0 |
| *cmyn4** | 1.0 | 1.0 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 25.72 | 31.46 | −44.36 | |
| *LAB*LABa* | 25.72 | 31.1 | −44.41 | |
| *LAB*TCHa* | 50.0 | 54.23 | 305.0 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.1 | 0.573 | −0.818 | |
| *lab*tch* | 0.5 | 1.0 | 0.847 | |
| *lab*nch* | 0.0 | 1.0 | 0.847 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.1 | 0.449 | −0.892 | |
| *lab*tce* | 0.5 | 1.0 | 0.824 | |
| *lab*ncE* | 0.0 | 1.0 | b29r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.0 | 0.0 | 0.5 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 0.5 | 1.0 | 0.5 |
| *cmyn4** | 0.5 | 0.5 | 0.0 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 21.87 | 15.98 | −22.4 | |
| *LAB*LABa* | 21.87 | 15.55 | −22.2 | |
| *LAB*TCHa* | 25.01 | 27.11 | 305.0 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.05 | 0.287 | −0.408 | |
| *lab*tch* | 0.25 | 0.5 | 0.847 | |
| *lab*nch* | 0.5 | 0.5 | 0.847 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.05 | 0.225 | −0.446 | |
| *lab*tce* | 0.25 | 0.5 | 0.824 | |
| *lab*ncE* | 0.5 | 0.5 | b29r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.0 | 0.0 | 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 | – | |

$n^* = 0{,}00$

**Schwarzheit $n^*$**

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

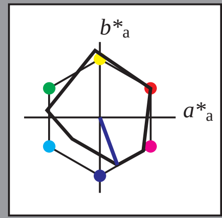
**relative Buntheit $c^*$**

$n^* = 1{,}0$

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

| | | | | |
|---|---|---|---|---|
| ***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** | 0.5 | 0.5 | 1.0 | (1.0) |
| *cmyn3** | 0.5 | 0.5 | 0.0 | (0.0) |
| *olvi4** | 0.5 | 0.5 | 1.0 | 1.0 |
| *cmyn4** | 0.5 | 0.5 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 66.03 | 11.17 | −28.74 | |
| *LAB*LABa* | 66.03 | 11.59 | −31.51 | |
| *LAB*TCHa* | 75.0 | 33.59 | 290.19 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.62 | 0.173 | −0.468 | |
| *lab*tch* | 0.75 | 0.5 | 0.806 | |
| *lab*nch* | 0.0 | 0.5 | 0.806 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.62 | 0.129 | −0.482 | |
| *lab*tce* | 0.75 | 0.5 | 0.791 | |
| *lab*ncE* | 0.0 | 0.5 | b16r | |

| | | | | |
|---|---|---|---|---|
| ***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** | 0.0 | 0.0 | 1.0 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 0.0 | (0.0) |
| *olvi4** | 0.0 | 0.0 | 1.0 | 1.0 |
| *cmyn4** | 1.0 | 1.0 | 0.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 36.65 | 23.33 | −62.24 | |
| *LAB*LABa* | 36.65 | 23.18 | −63.03 | |
| *LAB*TCHa* | 50.0 | 67.17 | 290.19 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.241 | 0.345 | −0.937 | |
| *lab*tch* | 0.5 | 1.0 | 0.806 | |
| *lab*nch* | 0.0 | 1.0 | 0.806 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.241 | 0.257 | −0.965 | |
| *lab*tce* | 0.5 | 1.0 | 0.791 | |
| *lab*ncE* | 0.0 | 1.0 | b16r | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 0.0 | 0.0 | 0.5 | (1.0) |
| *cmyn3** | 1.0 | 1.0 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 0.5 | 1.0 | 0.5 |
| *cmyn4** | 0.5 | 0.5 | 0.0 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 27.34 | 11.92 | −31.35 | |
| *LAB*LABa* | 27.34 | 11.59 | −31.51 | |
| *LAB*TCHa* | 25.01 | 33.59 | 290.19 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.12 | 0.173 | −0.468 | |
| *lab*tch* | 0.25 | 0.5 | 0.806 | |
| *lab*nch* | 0.5 | 0.5 | 0.806 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.12 | 0.129 | −0.482 | |
| *lab*tce* | 0.25 | 0.5 | 0.791 | |
| *lab*ncE* | 0.5 | 0.5 | b16r | |

| | | | | |
|---|---|---|---|---|
| ***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 | – | |

$n^* = 0{,}00$

**Schwarzheit $n^*$**

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

**relative Buntheit $c^*$**

$n^* = 1{,}0$

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (links) 3 stufige Reihen für konstanten CIELAB Buntton 290/360 = 0.806 (rechts)

BAM-Registrierung: 20060101-UG10/10L/L10G04FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen, Yr=2.5, XYZ

/UG10/ Form: 5/10, Serie: 1/1, Seite: 5 Seitenzählung 5

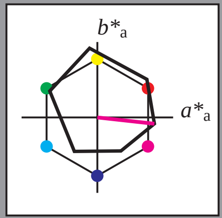
Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

## 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**
**olv*Ma: 1.0 0.0 1.0**

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




**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** 1.0 0.5 1.0 (1.0)
*cmyn3** 0.0 0.5 0.0 (0.0)
*olvi4** 1.0 0.5 1.0 1.0
*cmyn4** 0.0 0.5 0.0 0.0
**standard and adapted CIELAB**
*LAB*LAB* 71.77 37.1 −1.01
*LAB*LABa* 71.77 37.63 −4.17
*LAB*TCHa* 75.0 37.86 353.66
**relative CIELAB *lab****
*lab*lab* 0.695 0.497 −0.054
*lab*tch* 0.75 0.5 0.982
*lab*nch* 0.0 0.5 0.982
**relative Natural Colour (NC)**
*lab*lrj* 0.695 0.454 −0.208
*lab*tce* 0.75 0.5 0.932
*lab*ncE* 0.0 0.5 b72r

**relative Inform. Technology (IT)**
*olvi3** 0.5 0.5 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** 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

**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

$n^* = 0,00$

**Schwarzheit $n^*$**

**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 –

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

**relative Buntheit $c^*$**

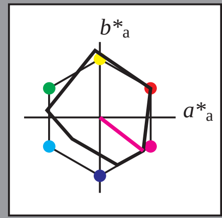
$n^* = 1,0$

## 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**
**olv*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** 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** 0.5 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** 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

**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

$n^* = 0,00$

**Schwarzheit $n^*$**

**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 –

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

**relative Buntheit $c^*$**

$n^* = 1,0$

BAM-Registrierung: 20060101-UG10/10L/L10G05FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen, Yr=2.5, XYZ

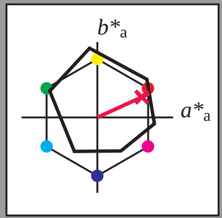
/UG10/ Form: 6/10, Serie: 1/1, Seite: 6 Seitenz hlung 6

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (links) 3 stufige Reihen für konstanten CIELAB Buntton 322/360 = 0.895 (rechts)

Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

## 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**
**olv*Ma: 1.0 0.0 0.32**

**Dreiecks-Helligkeit *t****

| ORS18; adaptierte CIELAB-Daten | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** 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** 0.5 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** 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

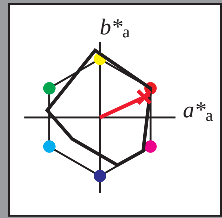
***relative* Inform. Technology (IT)**
*olvi3** 0.5 0.0 0.161 (1.0)
*cmyn3** 0.5 1.0 0.839 (0.0)
*olvi4** 1.0 0.5 0.661 0.5
*cmyn4** 0.0 0.5 0.339 0.5
***standard and adapted* CIELAB**
*LAB*LAB* 33.01 34.49 16.31
*LAB*LABa* 33.01 34.27 15.77
*LAB*TCHa* 25.01 37.73 24.7
***relative* CIELAB *lab****
*lab*lab* 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

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

## 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**
**olv*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** 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** 0.5 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** 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

***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

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

BAM-Registrierung: 20060101-UG10/10L/L10G06FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen, Yr=2.5, XYZ

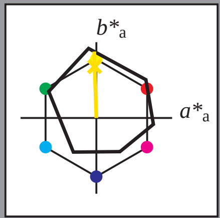
/UG10/ Form: 7/10, Serie: 1/1, Seite: 7 Seitenzählung 7

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links) 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (rechts)

**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**
**olv*Ma: 1.0 0.9 0.0**

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




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

| ORS18; adaptierte CIELAB-Daten | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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 |

*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** 1.0 0.951 0.5 (1.0)
*cmyn3** 0.0 0.049 0.5 (0.0)
*olvi4** 1.0 0.951 0.5 1.0
*cmyn4** 0.0 0.049 0.5 0.0
*standard and adapted* CIELAB
*LAB*LAB* 90.8 −2.3 48.29
*LAB*LABa* 90.8 −1.41 43.85
*LAB*TCHa* 75.0 43.87 91.85
*relative* CIELAB *lab**
*lab*lab* 0.94 −0.015 0.5
*lab*tch* 0.75 0.5 0.255
*lab*nch* 0.0 0.5 0.255
*relative* Natural Colour (NC)
*lab*lrj* 0.94 0.0 0.5
*lab*tce* 0.75 0.5 0.25
*lab*ncE* 0.0 0.5 j00g

*relative* Inform. Technology (IT)
*olvi3** 0.5 0.5 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** 1.0 0.901 0.0 (1.0)
*cmyn3** 0.0 0.099 1.0 (0.0)
*olvi4** 1.0 0.902 0.0 1.0
*cmyn4** 0.0 0.098 1.0 0.0
*standard and adapted* CIELAB
*LAB*LAB* 86.19 −3.62 91.83
*LAB*LABa* 86.19 −2.82 87.69
*LAB*TCHa* 50.0 87.73 91.85
*relative* CIELAB *lab**
*lab*lab* 0.881 −0.031 0.999
*lab*tch* 0.5 1.0 0.255
*lab*nch* 0.0 1.0 0.255
*relative* Natural Colour (NC)
*lab*lrj* 0.881 0.0 1.0
*lab*tce* 0.5 1.0 0.25
*lab*ncE* 0.0 1.0 j00g

*relative* Inform. Technology (IT)
*olvi3** 0.5 0.451 0.0 (1.0)
*cmyn3** 0.5 0.549 1.0 (0.0)
*olvi4** 1.0 0.951 0.5 0.5
*cmyn4** 0.0 0.049 0.5 0.5
*standard and adapted* CIELAB
*LAB*LAB* 52.1 −1.55 45.68
*LAB*LABa* 52.1 −1.4 43.84
*LAB*TCHa* 25.01 43.87 91.84
*relative* CIELAB *lab**
*lab*lab* 0.44 −0.015 0.5
*lab*tch* 0.25 0.5 0.255
*lab*nch* 0.5 0.5 0.255
*relative* Natural Colour (NC)
*lab*lrj* 0.44 0.0 0.5
*lab*tce* 0.25 0.5 0.25
*lab*ncE* 0.5 0.5 r99j

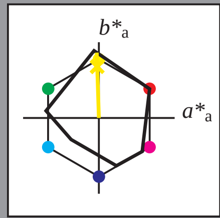
*relative* Inform. Technology (IT)
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
*standard and adapted* CIELAB
*LAB*LAB* 18.02 0.5 −0.46
*LAB*LABa* 18.02 0.0 0.0
*LAB*TCHa* 0.01 0.01 –
*relative* CIELAB *lab**
*lab*lab* 0.0 0.0 0.0
*lab*tch* 0.0 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 –

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

**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**
**olv*Ma: 1.0 0.95 0.0**

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




**%Umfang**
$u^*_{rel} = 91$
**%Regularität**
$g^*_{H,rel} = 41$
$g^*_{C,rel} = 52$

| 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 |

*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** 1.0 0.976 0.5 (1.0)
*cmyn3** 0.0 0.024 0.5 (0.0)
*olvi4** 1.0 0.976 0.5 1.0
*cmyn4** 0.0 0.024 0.5 0.0
*standard and adapted* CIELAB
*LAB*LAB* 92.04 −2.3 47.67
*LAB*LABa* 92.04 −1.39 43.14
*LAB*TCHa* 75.0 43.16 91.85
*relative* CIELAB *lab**
*lab*lab* 0.957 −0.015 0.5
*lab*tch* 0.75 0.5 0.255
*lab*nch* 0.0 0.5 0.255
*relative* Natural Colour (NC)
*lab*lrj* 0.957 0.0 0.5
*lab*tce* 0.75 0.5 0.25
*lab*ncE* 0.0 0.5 j00g

*relative* Inform. Technology (IT)
*olvi3** 0.5 0.5 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** 1.0 0.951 0.0 (1.0)
*cmyn3** 0.0 0.049 1.0 (0.0)
*olvi4** 1.0 0.951 0.0 1.0
*cmyn4** 0.0 0.049 1.0 0.0
*standard and adapted* CIELAB
*LAB*LAB* 88.68 −3.62 90.58
*LAB*LABa* 88.68 −2.77 86.27
*LAB*TCHa* 50.0 86.32 91.85
*relative* CIELAB *lab**
*lab*lab* 0.913 −0.031 0.999
*lab*tch* 0.5 1.0 0.255
*lab*nch* 0.0 1.0 0.255
*relative* Natural Colour (NC)
*lab*lrj* 0.913 0.0 1.0
*lab*tce* 0.5 1.0 0.25
*lab*ncE* 0.0 1.0 j00g

*relative* Inform. Technology (IT)
*olvi3** 0.5 0.476 0.0 (1.0)
*cmyn3** 0.5 0.524 1.0 (0.0)
*olvi4** 1.0 0.976 0.5 0.5
*cmyn4** 0.0 0.024 0.5 0.5
*standard and adapted* CIELAB
*LAB*LAB* 53.35 −1.55 45.05
*LAB*LABa* 53.35 −1.38 43.13
*LAB*TCHa* 25.01 43.16 91.84
*relative* CIELAB *lab**
*lab*lab* 0.457 −0.015 0.5
*lab*tch* 0.25 0.5 0.255
*lab*nch* 0.5 0.5 0.255
*relative* Natural Colour (NC)
*lab*lrj* 0.457 0.0 0.5
*lab*tce* 0.25 0.5 0.25
*lab*ncE* 0.5 0.5 r99j

*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 –

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

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (links)
3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (rechts)

Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

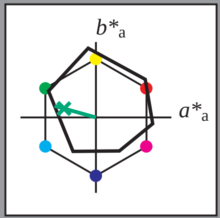
BAM-Registrierung: 20060101-UG10/10L/L10G07FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen, Yr=2.5, XYZ

/UG10/ Form: 8/10, Serie: 1/1, Seite: 8 Seitenz hlung 8

**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**
**olv*Ma: 0.0 1.0 0.25**

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




**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** 0.5 1.0 0.623 (1.0)
*cmyn3** 0.5 0.0 0.377 (0.0)
*olvi4** 0.5 1.0 0.623 1.0
*cmyn4** 0.5 0.0 0.377 0.0
*standard and adapted* **CIELAB**
*LAB*LAB* 74.1 −27.96 10.94
*LAB*LABa* 74.1 −27.39 7.62
*LAB*TCHa* 75.0 28.44 164.46
*relative* **CIELAB** *lab**
*lab*lab* 0.725 −0.481 0.134
*lab*tch* 0.75 0.5 0.457
*lab*nch* 0.0 0.5 0.457
*relative* **Natural Colour (NC)**
*lab*lrj* 0.725 −0.499 0.0
*lab*tce* 0.75 0.5 0.5
*lab*ncE* 0.0 0.5 g00b

*relative* **Inform. Technology (IT)**
*olvi3** 0.5 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** 0.0 1.0 0.246 (1.0)
*cmyn3** 1.0 0.0 0.754 (0.0)
*olvi4** 0.0 1.0 0.246 1.0
*cmyn4** 1.0 0.0 0.754 0.0
*standard and adapted* **CIELAB**
*LAB*LAB* 52.8 −54.95 17.13
*LAB*LABa* 52.8 −54.79 15.24
*LAB*TCHa* 50.0 56.88 164.45
*relative* **CIELAB** *lab**
*lab*lab* 0.45 −0.962 0.268
*lab*tch* 0.5 1.0 0.457
*lab*nch* 0.0 1.0 0.457
*relative* **Natural Colour (NC)**
*lab*lrj* 0.45 −0.999 0.0
*lab*tce* 0.5 1.0 0.5
*lab*ncE* 0.0 1.0 j99g

*relative* **Inform. Technology (IT)**
*olvi3** 0.0 0.5 0.123 (1.0)
*cmyn3** 1.0 0.5 0.877 (0.0)
*olvi4** 0.5 1.0 0.623 0.5
*cmyn4** 0.5 0.0 0.377 0.5
*standard and adapted* **CIELAB**
*LAB*LAB* 35.41 −27.22 8.34
*LAB*LABa* 35.41 −27.39 7.63
*LAB*TCHa* 25.01 28.44 164.45
*relative* **CIELAB** *lab**
*lab*lab* 0.225 −0.481 0.134
*lab*tch* 0.25 0.5 0.457
*lab*nch* 0.5 0.5 0.457
*relative* **Natural Colour (NC)**
*lab*lrj* 0.225 −0.499 0.0
*lab*tce* 0.25 0.5 0.5
*lab*ncE* 0.5 0.5 j99g

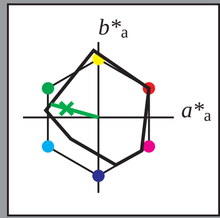
*relative* **Inform. Technology (IT)**
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
*standard and adapted* **CIELAB**
*LAB*LAB* 18.02 0.5 −0.46
*LAB*LABa* 18.02 0.0 0.0
*LAB*TCHa* 0.01 0.01 –
*relative* **CIELAB** *lab**
*lab*lab* 0.0 0.0 0.0
*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 –

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

**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**
**olv*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 |

**%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** 0.551 1.0 0.5 (1.0)
*cmyn3** 0.449 0.0 0.5 (0.0)
*olvi4** 0.551 1.0 0.5 1.0
*cmyn4** 0.449 0.0 0.5 0.0
*standard and adapted* **CIELAB**
*LAB*LAB* 75.74 −32.2 12.22
*LAB*LABa* 75.74 −31.6 8.79
*LAB*TCHa* 75.0 32.81 164.46
*relative* **CIELAB** *lab**
*lab*lab* 0.746 −0.481 0.134
*lab*tch* 0.75 0.5 0.457
*lab*nch* 0.0 0.5 0.457
*relative* **Natural Colour (NC)**
*lab*lrj* 0.746 −0.499 0.0
*lab*tce* 0.75 0.5 0.5
*lab*ncE* 0.0 0.5 j99g

*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** 0.103 1.0 0.0 (1.0)
*cmyn3** 0.897 0.0 1.0 (0.0)
*olvi4** 0.103 1.0 0.0 1.0
*cmyn4** 0.897 0.0 1.0 0.0
*standard and adapted* **CIELAB**
*LAB*LAB* 56.07 −63.44 19.68
*LAB*LABa* 56.07 −63.21 17.58
*LAB*TCHa* 50.0 65.62 164.46
*relative* **CIELAB** *lab**
*lab*lab* 0.492 −0.962 0.268
*lab*tch* 0.5 1.0 0.457
*lab*nch* 0.0 1.0 0.457
*relative* **Natural Colour (NC)**
*lab*lrj* 0.492 −0.999 0.0
*lab*tce* 0.5 1.0 0.5
*lab*ncE* 0.0 1.0 g00b

*relative* **Inform. Technology (IT)**
*olvi3** 0.051 0.5 0.0 (1.0)
*cmyn3** 0.949 0.5 1.0 (0.0)
*olvi4** 0.551 1.0 0.5 0.5
*cmyn4** 0.449 0.0 0.5 0.5
*standard and adapted* **CIELAB**
*LAB*LAB* 37.04 −31.47 9.6
*LAB*LABa* 37.04 −31.6 8.78
*LAB*TCHa* 25.01 32.81 164.47
*relative* **CIELAB** *lab**
*lab*lab* 0.246 −0.481 0.134
*lab*tch* 0.25 0.5 0.457
*lab*nch* 0.5 0.5 0.457
*relative* **Natural Colour (NC)**
*lab*lrj* 0.246 −0.499 0.0
*lab*tce* 0.25 0.5 0.5
*lab*ncE* 0.5 0.5 g00b

*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 –

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

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (links)
3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (rechts)



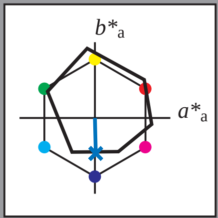
Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

BAM-Registrierung: 20060101-UG10/10L/L10G08FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen, Yr=2.5, XYZ

**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**
**olv*Ma: 0.0 0.49 1.0**

**Dreiecks-Helligkeit *t****




**ORS18; adaptierte CIELAB-Daten**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.37 | 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** 0.5 0.744 1.0 (1.0)
*cmyn3** 0.5 0.256 0.0 (0.0)
*olvi4** 0.5 0.744 1.0 1.0
*cmyn4** 0.5 0.256 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 68.59 0.08 −19.4
*LAB*LABa* 68.59 0.54 −22.35
*LAB*TCHa* 75.0 22.36 271.4
***relative* CIELAB *lab****
*lab*lab* 0.654 0.012 −0.499
*lab*tch* 0.75 0.5 0.754
*lab*nch* 0.0 0.5 0.754
***relative* Natural Colour (NC)**
*lab*lrj* 0.654 0.0 −0.499
*lab*tce* 0.75 0.5 0.75
*lab*ncE* 0.0 0.5 g99b

***relative* Inform. Technology (IT)**
*olvi3** 0.5 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** 0.0 0.488 1.0 (1.0)
*cmyn3** 1.0 0.512 0.0 (0.0)
*olvi4** 0.0 0.488 1.0 1.0
*cmyn4** 1.0 0.512 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 41.79 1.14 −43.56
*LAB*LABa* 41.79 1.1 −44.7
*LAB*TCHa* 50.0 44.73 271.4
***relative* CIELAB *lab****
*lab*lab* 0.307 0.024 −0.998
*lab*tch* 0.5 1.0 0.754
*lab*nch* 0.0 1.0 0.754
***relative* Natural Colour (NC)**
*lab*lrj* 0.307 0.0 −0.999
*lab*tce* 0.5 1.0 0.75
*lab*ncE* 0.0 1.0 b00r

***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.244 0.5 (1.0)
*cmyn3** 1.0 0.756 0.5 (0.0)
*olvi4** 0.5 0.744 1.0 0.5
*cmyn4** 0.5 0.256 0.0 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 29.9 0.83 −22.01
*LAB*LABa* 29.9 0.55 −22.35
*LAB*TCHa* 25.01 22.36 271.41
***relative* CIELAB *lab****
*lab*lab* 0.154 0.012 −0.499
*lab*tch* 0.25 0.5 0.754
*lab*nch* 0.5 0.5 0.754
***relative* Natural Colour (NC)**
*lab*lrj* 0.154 0.0 −0.499
*lab*tce* 0.25 0.5 0.75
*lab*ncE* 0.5 0.5 b00r

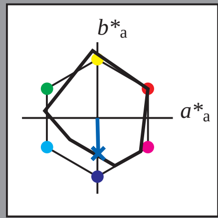
***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 18.02 0.5 −0.46
*LAB*LABa* 18.02 0.0 0.0
*LAB*TCHa* 0.01 0.01 –
***relative* CIELAB *lab****
*lab*lab* 0.0 0.0 0.0
*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** = 0,00
**Schwarzheit *n****
0,25 0,50 *n** = 0,50 0,75 1,00
**relative Buntheit *c****
*n** = 1,0

**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**
**olv*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**

***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** 0.5 0.684 1.0 (1.0)
*cmyn3** 0.5 0.316 0.0 (0.0)
*olvi4** 0.5 0.684 1.0 1.0
*cmyn4** 0.5 0.316 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 67.57 0.17 −22.28
*LAB*LABa* 67.57 0.61 −25.16
*LAB*TCHa* 75.0 25.18 271.4
***relative* CIELAB *lab****
*lab*lab* 0.64 0.012 −0.499
*lab*tch* 0.75 0.5 0.754
*lab*nch* 0.0 0.5 0.754
***relative* Natural Colour (NC)**
*lab*lrj* 0.64 0.0 −0.499
*lab*tce* 0.75 0.5 0.75
*lab*ncE* 0.0 0.5 g99b

***relative* Inform. Technology (IT)**
*olvi3** 0.5 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** 0.0 0.367 1.0 (1.0)
*cmyn3** 1.0 0.633 0.0 (0.0)
*olvi4** 0.0 0.367 1.0 1.0
*cmyn4** 1.0 0.633 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 39.73 1.32 −49.33
*LAB*LABa* 39.73 1.23 −50.34
*LAB*TCHa* 50.0 50.36 271.41
***relative* CIELAB *lab****
*lab*lab* 0.281 0.025 −0.998
*lab*tch* 0.5 1.0 0.754
*lab*nch* 0.0 1.0 0.754
***relative* Natural Colour (NC)**
*lab*lrj* 0.281 0.0 −0.999
*lab*tce* 0.5 1.0 0.75
*lab*ncE* 0.0 1.0 b00r

***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.184 0.5 (1.0)
*cmyn3** 1.0 0.816 0.5 (0.0)
*olvi4** 0.5 0.684 1.0 0.5
*cmyn4** 0.5 0.316 0.0 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 28.87 0.92 −24.9
*LAB*LABa* 28.87 0.62 −25.16
*LAB*TCHa* 25.01 25.18 271.41
***relative* CIELAB *lab****
*lab*lab* 0.14 0.012 −0.499
*lab*tch* 0.25 0.5 0.754
*lab*nch* 0.5 0.5 0.754
***relative* Natural Colour (NC)**
*lab*lrj* 0.14 0.0 −0.499
*lab*tce* 0.25 0.5 0.75
*lab*ncE* 0.5 0.5 b00r

***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.0 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** = 0,00
**Schwarzheit *n****
0,25 0,50 *n** = 0,50 0,75 1,00
**relative Buntheit *c****
*n** = 1,0

UG100−7, 3 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (links)
3 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (rechts)

BAM-Prüfvorlage UG10; Farbmetrik-Systeme ORS18 & MRS18
D65: 2 Koordinatendaten; 3 stufige Farbreihen für 10 Bunttöne
input: *cmy0* setcmykcolor*
output: *cmy0* / 000n* setcmykcolor*

Siehe ähnliche Dateien: http://www.ps.bam.de/UG10/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIEXYZ

BAM-Registrierung: 20060101-UG10/10L/L10G09FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker− oder Monitorsystemen, Yr=2.5, XYZ