

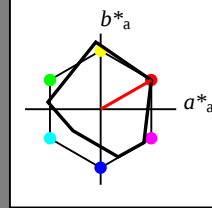
## Eingabe: Farbmétrisches Reflexions-System MRS18

für Buntton  $h^* = lab^*h = 30/360 = 0.083$  $lab^*ch$  und  $lab^*nch$ 

D65: Buntton R

LCH\*Ma: 50 77 30

olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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   | 0.07  |

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   | 0.07  |

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   | 0.07  |

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 | -   |

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  $n^*$ relative Buntheit  $c^*$ 

0.25 0.50 0.75 1.00

 $n^* = 0.50$  $n^* = 1.0$ 

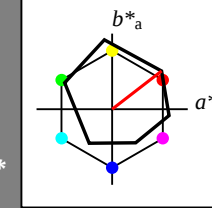
## Ausgabe: Farbmétrisches Reflexions-System ORS18

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

D65: Buntton O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 93$ 

%Regularität

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |      |
|----------|-------|-------|------|
| LAB*LAB  | 95.41 | -0.97 | 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 | 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 | -   |

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   | 0.19  |

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 | -   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$  $n^* = 0.00$ Schwarzheit  $n^*$ relative Buntheit  $c^*$ 

0.25 0.50 0.75 1.00

 $n^* = 0.50$  $n^* = 1.0$ 

## ORS18; adaptierte CIELAB-Daten

|      | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|---------------|---------|---------|--------------|--------------|
| OMa  | 47.94         | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37         | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.9          | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62         | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71         | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13         | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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   | 0.19  |

standard and adapted CIELAB

|         |       |       |
|---------|-------|-------|
| LAB*LAB | 47.95 | 65.29 |
|---------|-------|-------|

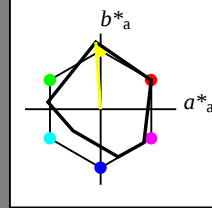
## Eingabe: Farbmatisches Reflexions-System MRS18

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

D65: Buntton J

LCH\*Ma: 91 89 94

olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

LAB\*LAB 18.02 0.5 -0.46

LAB\*LABa 18.02 0.0 0.0

LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*

lab\*lab 0.0 0.0 0.0

lab\*tch 0.0 0.0 -

lab\*nch 1.0 0.0 -

relative Natural Colour (NC)

lab\*lrj 0.0 0.0 0.0

lab\*tce 0.0 0.0 -

lab\*nce 1.0 0.0 -

 $n^* = 1.0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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 | 0.0 | (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* | 0.5 | 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* | 0.5 | 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* | 0.5 | 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* | 0.5 | 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* | 0.5 | 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* | 0.5 | 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* | 0.5 | 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* | 0.5 | 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* | 0.5 | 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

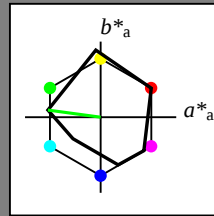
lab\*tch 0.25 0.5 0.261

lab\*nch 0.5 0.5 0.261

relative Natural Colour (NC)

lab\*lrj

## Eingabe: Farbmétrisches Reflexions-System MRS18

für Buntton  $h^* = lab^*h = 172/360 = 0.479$   
 $lab^*ch$  und  $lab^*nch$ D65: Buntton G  
LCH\*Ma: 52 70 172  
olv\*Ma: 0.0 1.0 0.0Dreiecks-Helligkeit  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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* | 0.0 | 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   |

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 | -   |

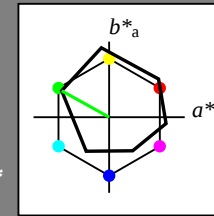
 $n^* = 0.00$ Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

|      |      |      |      |
|------|------|------|------|
| 0.25 | 0.50 | 0.75 | 1.00 |
|------|------|------|------|

 $n^* = 0.50$ 

## Ausgabe: Farbmétrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 151/360 = 0.419$   
 $lab^*ch$  und  $lab^*nch$ D65: Buntton L  
LCH\*Ma: 51 72 151  
olv\*Ma: 0.0 1.0 0.0Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 93$ 

%Regularität

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |      |
|----------|-------|-------|------|
| LAB*LAB  | 95.41 | -0.97 | 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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## ORS18; adaptierte CIELAB-Daten

|      | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|---------------|---------|---------|--------------|--------------|
| OMa  | 47.94         | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37         | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.9          | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62         | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71         | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13         | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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* | 0.0 | 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  |

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  $n^*$ 

relative Buntheit  $c^*$

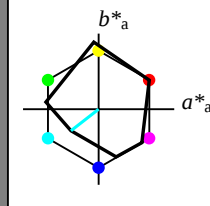
|      |      |      |      |
|------|------|------|------|
| 0.25 | 0.50 | 0.75 | 1.00 |
|------|------|------|------|

 $n^* = 0.50$ 

TG150-7, 3 stufige Reihen für konstanten CIELAB Buntton 172/360 = 0.479 (links)

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

## Eingabe: Farbmatisches Reflexions-System MRS18

für Buntton  $h^* = lab^*h = 218/360 = 0.605$   
 $lab^*ch$  und  $lab^*nch$ D65: Buntton G50B  
LCH\*Ma: 45 46 218  
olv\*Ma: 0.0 1.0 1.0Dreiecks-Helligkeit  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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* | 0.0 | 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 | -   |

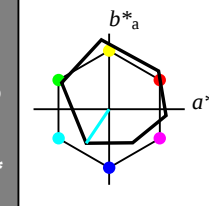
 $n^* = 0.00$ Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

|      |      |      |      |
|------|------|------|------|
| 0.25 | 0.50 | 0.75 | 1.00 |
|------|------|------|------|

 $n^* = 0.50$ 

## Ausgabe: Farbmatisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 236/360 = 0.656$   
 $lab^*ch$  und  $lab^*nch$ D65: Buntton C  
LCH\*Ma: 59 54 236  
olv\*Ma: 0.0 1.0 1.0Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 93$ 

%Regularität

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |      |
|----------|-------|-------|------|
| LAB*LAB  | 95.41 | -0.97 | 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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$  $n^* = 0.00$ Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

|      |      |      |      |
|------|------|------|------|
| 0.25 | 0.50 | 0.75 | 1.00 |
|------|------|------|------|

 $n^* = 0.50$ 

TG150-7, 3 stufige Reihen für konstanten CIELAB Buntton 218/360 = 0.605 (links)

3 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (rechts)

BAM-Prüfvorlage TG15; Farbmatrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: 2 Koordinaten-Daten von 3stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependend

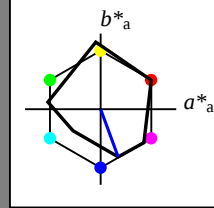
## Eingabe: Farbmatisches Reflexions-System MRS18

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  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1,0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_{a,a}$ | $a^*_{a,a}$ | $b^*_{a,a}$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------------|-------------|-------------|--------------|--------------|
| RMa    | 49.63             | 66.96       | 38.37       | 77.18        | 30           |
| JMa    | 90.7              | -6.36       | 88.75       | 88.98        | 94           |
| GMa    | 52.11             | -69.73      | 9.44        | 70.37        | 172          |
| G50BMa | 45.03             | -36.57      | -28.47      | 46.36        | 218          |
| BMa    | 36.65             | 23.19       | -63.05      | 67.18        | 290          |
| B50RMa | 34.94             | 57.17       | -44.26      | 72.31        | 322          |
| NMa    | 18.01             | 0.0         | 0.0         | 0.0          | 0            |
| WMa    | 95.41             | 0.0         | 0.0         | 0.0          | 0            |
| RCIE   | 39.92             | 58.66       | 26.98       | 64.56        | 25           |
| JCIE   | 81.26             | -2.17       | 67.76       | 67.79        | 92           |
| GCIE   | 52.23             | -42.26      | 11.75       | 43.87        | 164          |
| BCIE   | 30.57             | 1.15        | -46.84      | 46.87        | 271          |

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   | 0.791  |

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   | 0.791  |

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

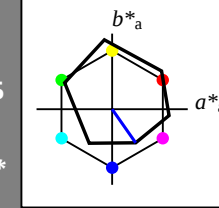
## Ausgabe: Farbmatisches Reflexions-System ORS18

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  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1,0$  $n^* = 0,50$ relative Buntheit  $c^*$  $n^* = 1,0$ 

## ORS18; adaptierte CIELAB-Daten

|      | $L^* = L^*_{a,a}$ | $a^*_{a,a}$ | $b^*_{a,a}$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------------|-------------|-------------|--------------|--------------|
| OMa  | 47.94             | 65.37       | 50.52       | 82.62        | 38           |
| YMa  | 90.37             | -10.27      | 91.77       | 92.34        | 96           |
| LMa  | 50.9              | -62.79      | 34.95       | 71.87        | 151          |
| CMa  | 58.62             | -30.35      | -45.01      | 54.3         | 236          |
| VMa  | 25.71             | 31.11       | -44.42      | 54.24        | 305          |
| MMa  | 48.13             | 75.27       | -8.35       | 75.73        | 354          |
| NMa  | 18.01             | 0.0         | 0.0         | 0.0          | 0            |
| WMa  | 95.41             | 0.0         | 0.0         | 0.0          | 0            |
| RCIE | 39.92             | 58.66       | 26.98       | 64.56        | 25           |
| JCIE | 81.26             | -2.17       | 67.76       | 67.79        | 92           |
| GCIE | 52.23             | -42.26      | 11.75       | 43.87        | 164          |
| BCIE | 30.57             | 1.15        | -46.84      | 46.87        | 271          |

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   | 0.824  |

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   | 0.824  |

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

TG150-7, 3 stufige Reihen für konstanten CIELAB Buntton 290/360 = 0.806 (links)

3 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (rechts)

BAM-Prüfvorlage TG15; Farbmatrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: 2 Koordinaten-Daten von 3stufigen Farbreihen für 10 Bunttöne input: Startup (S) data dependend

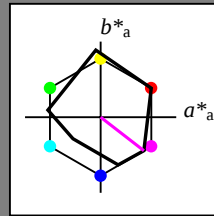
## Eingabe: Farbmétrisches Reflexions-System MRS18

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

D65: Buntton B50R

LCH\*Ma: 35 72 322

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$ 

%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 | 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 | 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 -

## MRS18; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

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* | 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

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

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 | 1.0 | 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 -

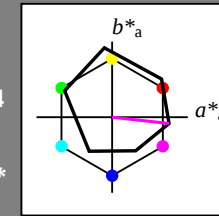
## Ausgabe: Farbmétrisches Reflexions-System ORS18

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

D65: Buntton M

LCH\*Ma: 48 76 354

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 93$ 

%Regularität

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB\*LAB 95.41 -0.97 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 | 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* | 0.5 | 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

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 | 1.0 | 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 -

## ORS18; adaptierte CIELAB-Daten

|     | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----|-------------|---------|---------|--------------|--------------|
| OMa | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa | 50.9        | -62.79  | 34.95   | 71.87        |              |

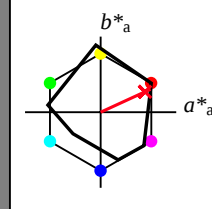
## Eingabe: Farbmatisches Reflexions-System MRS18

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  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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 | 0.999 |

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 | 0.0 |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 0.00$ Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

|      |      |      |      |
|------|------|------|------|
| 0.25 | 0.50 | 0.75 | 1.00 |
|------|------|------|------|

 $n^* = 0.50$ 

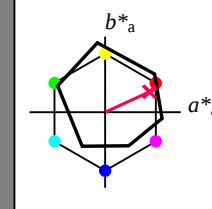
## Ausgabe: Farbmatisches Reflexions-System ORS18

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  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$  $n^* = 0.00$ Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

|      |      |      |      |
|------|------|------|------|
| 0.25 | 0.50 | 0.75 | 1.00 |
|------|------|------|------|

 $n^* = 0.50$ 

TG150-7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)

3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (rechts)

BAM-Prüfvorlage TG15; Farbmatrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: 2 Koordinaten-Daten von 3stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependend

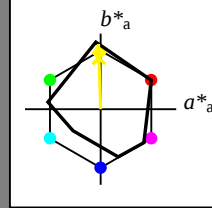
## Eingabe: Farbmétrisches Reflexions-System MRS18

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

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

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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 | 0.476 | 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  $n^*$ 

relative Buntheit  $c^*$

0,25 0,50  $n^* = 0.50$  0,75 1,00

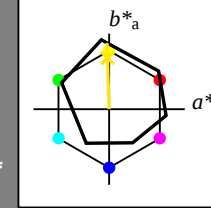
## Ausgabe: Farbmétrisches Reflexions-System ORS18

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

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

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## ORS18; adaptierte CIELAB-Daten

|      | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|---------------|---------|---------|--------------|--------------|
| OMa  | 47.94         | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37         | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.9          | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62         | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71         | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13         | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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 | 0.451 | 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  $n^*$ 

relative Buntheit  $c^*$

0,25 0,50  $n^* = 0.50$  0,75 1,00

3 stufige Reihen für konstanten CIELAB Bunnton 92/360 = 0.255 (rechts)

TG150-7, 3 stufige Reihen für konstanten CIELAB Bunnton 92/360 = 0.255 (links)

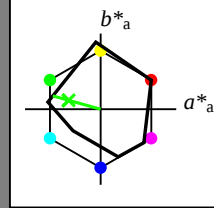
## Eingabe: Farbmatisches Reflexions-System MRS18

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  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1,0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

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    | 0.99g |

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 |

 $n^* = 0,50$ Schwarzheit  $n^*$ relative Buntheit  $c^*$ 

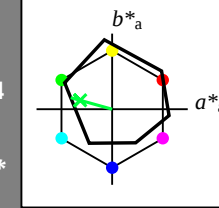
## Ausgabe: Farbmatisches Reflexions-System ORS18

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  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1,0$ 

## ORS18; adaptierte CIELAB-Daten

|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| OMa  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.9        | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

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* | 0.0 | 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    | g00b |

 $n^* = 0,50$ Schwarzheit  $n^*$ relative Buntheit  $c^*$ 

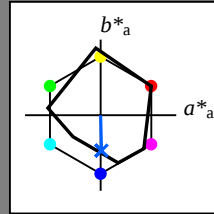
TG150-7, 3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (links)

3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (rechts)

BAM-Prüfvorlage TG15; Farbmatrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: 2 Koordinaten-Daten von 3stufigen Farbreihen für 10 Bunttöne input: Startup (S) data dependend

## Eingabe: Farbmatisches Reflexions-System MRS18

für Buntton  $h^* = lab^*h = 271/360 = 0.754$   
 $lab^*ch$  und  $lab^*nch$ D65: Buntton B  
LCH\*Ma: 40 50 271  
olv\*Ma: 0.0 0.37 1.0Dreiecks-Helligkeit  $t^*$ 

%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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## MRS18; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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* | 0.0 | 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)

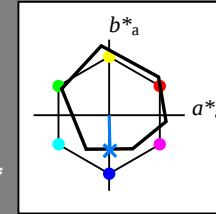
|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 0.00$ Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

0.25 0.50  $n^* = 0.50$  0.75 1.00

## Ausgabe: Farbmatisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 271/360 = 0.754$   
 $lab^*ch$  und  $lab^*nch$ D65: Buntton B  
LCH\*Ma: 42 45 271  
olv\*Ma: 0.0 0.49 1.0Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 93$ 

%Regularität

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |      |
|----------|-------|-------|------|
| LAB*LAB  | 95.41 | -0.97 | 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 | 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 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.0   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 1.0   |

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.02 | 0.5  | -0.46 |
| LAB*LABa | 18.02 | 0.0  | 0.0   |
| LAB*TCHa | 0.01  | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

 $n^* = 1.0$ 

## ORS18; adaptierte CIELAB-Daten

|      | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|---------------|---------|---------|--------------|--------------|
| OMa  | 47.94         | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37         | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.9          | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62         | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71         | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13         | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

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* | 0.0 | 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   |

 $n^* = 0.00$ Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

0.25 0.50  $n^* = 0.50$  0.75 1.00

TG150-7, 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 TG15; Farbmatrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: 2 Koordinaten-Daten von 3stufigen Farbreihen für 10 Bunttöne input: Startup (S) data dependend