

## Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 24/360 = 0.067$

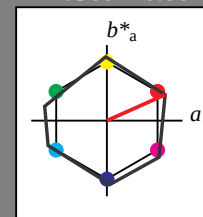
$lab^*ch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 53 84 24

rgb\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



### NRS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

## Ausgabe: Farbmetrisches Reflexions-System ORS18

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

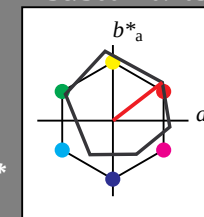
$lab^*ch$  und  $lab^*nch$

D65: Buntton O

LCH\*Ma: 48 83 38

rgb\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



### ORS18; adaptierte CIELAB-Daten

|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| 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          |
| CLMa | 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          |

%Regularität

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

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

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCMa 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 1.0 1.0 1.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 1.0 0.75 0.75 (1.0)  
cmyn3\* 0.0 0.25 0.25 (0.0)  
olvi4\* 1.0 0.75 0.75 (1.0)  
cmyn4\* 0.0 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.85 19.28 8.58  
LAB\*LABa 84.85 19.28 8.58  
LAB\*TCMa 97.5 21.08 24.01

relative CIELAB lab\*  
lab\*lab 0.875 0.228 0.102  
lab\*ch 0.875 0.25 0.067  
lab\*nch 0.0 0.25 0.067  
relative Natural Colour (NC)  
lab\*tr 0.875 0.25 -0.004  
lab\*trc 0.875 0.25 0.997  
lab\*ncc 0.0 0.25 0.998

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 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*TCMa 75.0 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.25 0.0  
lab\*ch 0.75 0.25 0.0  
lab\*nch 0.0 0.25 0.0  
relative Natural Colour (NC)  
lab\*tr 0.75 0.25 0.0  
lab\*trc 0.75 0.25 0.0  
lab\*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 -0.344  
LAB\*LABa 76.06 -0.344  
LAB\*TCMa 75.0 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*ch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.0 0.75 0.75 (1.0)  
relative Natural Colour (NC)  
lab\*tr 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.0 0.75 0.75 (1.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 64.19 16.34 12.63  
LAB\*LABa 64.19 16.34 12.63  
LAB\*TCMa 62.5 20.65 37.7

relative CIELAB lab\*  
lab\*lab 0.6419 16.34 12.63  
lab\*ch 0.6419 16.34 12.63  
lab\*nch 0.0 16.34 12.63  
relative Natural Colour (NC)  
lab\*tr 0.6419 16.34 12.63  
lab\*trc 0.6419 16.34 12.63  
lab\*ncc 0.0 16.34 12.63

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*TCMa 75.0 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.25 0.0  
lab\*ch 0.75 0.25 0.0  
lab\*nch 0.0 0.25 0.0  
relative Natural Colour (NC)  
lab\*tr 0.75 0.25 0.0  
lab\*trc 0.75 0.25 0.0  
lab\*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 63.75 19.3 8.59  
LAB\*LABa 63.75 19.3 8.59  
LAB\*TCMa 62.5 21.08 24.01

relative CIELAB lab\*  
lab\*lab 0.6375 19.3 8.59  
lab\*ch 0.6375 19.3 8.59  
lab\*nch 0.0 19.3 8.59  
relative Natural Colour (NC)  
lab\*tr 0.6375 19.3 8.59  
lab\*trc 0.6375 19.3 8.59  
lab\*ncc 0.0 19.3 8.59

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*TCMa 50.0 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5321 0.04 0.0  
lab\*ch 0.5321 0.04 0.0  
lab\*nch 0.0 0.04 0.0  
relative Natural Colour (NC)  
lab\*tr 0.5321 0.04 0.0  
lab\*trc 0.5321 0.04 0.0  
lab\*ncc 0.0 0.04 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.65 57.48 25.75  
LAB\*LABa 42.65 57.48 25.75  
LAB\*TCMa 37.5 21.08 24.01

relative CIELAB lab\*  
lab\*lab 0.4265 57.48 25.75  
lab\*ch 0.4265 57.48 25.75  
lab\*nch 0.0 57.48 25.75  
relative Natural Colour (NC)  
lab\*tr 0.4265 57.48 25.75  
lab\*trc 0.4265 57.48 25.75  
lab\*ncc 0.0 57.48 25.75

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.65 57.48 25.75  
LAB\*LABa 42.65 57.48 25.75  
LAB\*TCMa 37.5 21.08 24.01

relative CIELAB lab\*  
lab\*lab 0.4265 57.48 25.75  
lab\*ch 0.4265 57.48 25.75  
lab\*nch 0.0 57.48 25.75  
relative Natural Colour (NC)  
lab\*tr 0.4265 57.48 25.75  
lab\*trc 0.4265 57.48 25.75  
lab\*ncc 0.0 57.48 25.75

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.65 57.48 25.75  
LAB\*LABa 42.65 57.48 25.75  
LAB\*TCMa 37.5 21.08 24.01

relative CIELAB lab\*  
lab\*lab 0.4265 57.48 25.75  
lab\*ch 0.4265 57.48 25.75  
lab\*nch 0.0 57.48 25.75  
relative Natural Colour (NC)  
lab\*tr 0.4265 57.48 25.75  
lab\*trc 0.4265 57.48 25.75  
lab\*ncc 0.0 57.48 25.75

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.65 57.48 25.75  
LAB\*LABa 42.65 57.48 25.75  
LAB\*TCMa 37.5 21.08 24.01

relative CIELAB lab\*  
lab\*lab 0.4265 57.48 25.75  
lab\*ch 0.4265 57.48 25.75  
lab\*nch 0.0 57.48 25.75  
relative Natural Colour (NC)  
lab\*tr 0.4265 57.48 25.75  
lab\*trc 0.4265 57.48 25.75  
lab\*ncc 0.0 57.48 25.75

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*TCMa 50.0 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5321 0.04 0.0  
lab\*ch 0.5321 0.04 0.0  
lab\*nch 0.0 0.04 0.0  
relative Natural Colour (NC)  
lab\*tr 0.5321 0.04 0.0  
lab\*trc 0.5321 0.04 0.0  
lab\*ncc 0.0 0.04 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*TCMa 50.0 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5321 0.04 0.0  
lab\*ch 0.5321 0.04 0.0  
lab\*nch 0.0 0.04 0.0  
relative Natural Colour (NC)  
lab\*tr 0.5321 0.04 0.0  
lab\*trc 0.5321 0.04 0.0  
lab\*ncc 0.0 0.04 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 38.57 17.17  
LAB\*LABa 53.2 38.57 17.17  
LAB\*TCMa 50.0 42.18 24.01

relative CIELAB lab\*  
lab\*lab 0.532 38.57 17.17  
lab\*ch 0.532 38.57 17.17  
lab\*nch 0.0 38.57 17.17  
relative Natural Colour (NC)  
lab\*tr 0.532 38.57 17.17  
lab\*trc 0.532 38.57 17.17  
lab\*ncc 0.0 38.57 17.17

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.

## Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 91/360 = 0.253$

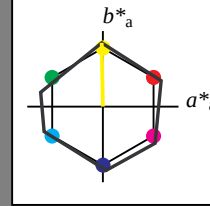
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 53 84 91

rgb\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*LABb 74.31 0.02 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*LABb 53.21 0.04 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*LABb 32.11 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.25 0.0 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 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*LABb 11.01 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

$n^* = 1.0$

## NRS11; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 53.2          | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2          | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2          | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2          | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2          | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2          | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*LABb 74.31 0.02 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*LABb 53.21 0.04 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*LABb 32.11 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.25 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*LABb 11.01 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

$n^* = 0.50$

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 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*LABb 74.31 0.02 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*LABb 53.21 0.04 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*LABb 32.11 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.25 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*LABb 11.01 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

$n^* = 0.25$

$n^* = 0.00$

Schwarzheit  $n^*$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

relative Buntheit  $c^*$

## Ausgabe: Farbmetrisches Reflexions-System ORS18

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

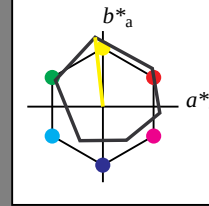
$lab^*ch$  und  $lab^*nch$

D65: Buntton Y

LCH\*Ma: 90 92 96

rgb\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*LABb 74.31 0.02 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*LABb 53.21 0.04 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*LABb 32.11 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.25 0.0 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 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*LABb 11.01 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

$n^* = 1.0$

5 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (rechts)

BAM-Prüfvorlage UG57; Farbmetrik-Systeme NRS11 & ORS18input: cmy0\* setcmykcolor

D65: 2 Koordinaten-Daten von 25stufigen Farbreihen für 10 Bunttonen

no change compared to input

## 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          |
| CLMa | 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          |

%Regularität

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

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

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*LABb 74.31 0.02 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*LABb 53.21 0.04 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*LABb 32.11 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.25 0.0 0.0

$n^* = 0.25$

$n^* = 0.00$

Schwarzheit  $n^*$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

relative Buntheit  $c^*$

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG57/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=0.0

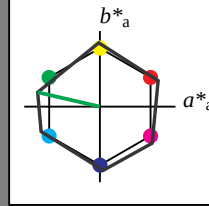
## Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 167/360 = 0.464$

$lab^*ch$  und  $lab^*nch$

D65: Buntton G  
LCH\*Ma: 53 84 167  
rgb\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCHa 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*TCHa 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*TCHa 50.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*TCHa 25.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 1.0 (1.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*TCHa 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 1.0 (1.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*TCHa 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.0 0.0

$n^* = 1.0$

## NRS11; adaptierte CIELAB-Daten

$L^* = L^*_a$   $a^*_a$   $b^*_a$   $C^*_{ab,a}$   $h^*_{ab,a}$

|        |       |        |        |       |     |
|--------|-------|--------|--------|-------|-----|
| RMa    | 53.2  | 77.06  | 34.32  | 84.36 | 24  |
| JMa    | 53.2  | -1.51  | 84.38  | 84.39 | 91  |
| GMa    | 53.2  | -82.27 | 18.98  | 84.44 | 167 |
| G50BMa | 53.2  | -77.72 | -32.98 | 84.44 | 203 |
| BMa    | 53.2  | 4.37   | -84.28 | 84.41 | 273 |
| B50RMa | 53.2  | 69.09  | -48.41 | 84.37 | 325 |
| NMa    | 10.99 | 0.0    | 0.0    | 0.0   | 0   |
| WMa    | 95.41 | 0.0    | 0.0    | 0.0   | 0   |
| RCIE   | 39.92 | 58.69  | 27.98  | 65.01 | 25  |
| JCIE   | 81.26 | -2.9   | 71.56  | 71.62 | 92  |
| GCIE   | 52.23 | -42.45 | 13.59  | 44.59 | 162 |
| BCIE   | 30.57 | 1.35   | -46.48 | 46.51 | 272 |

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)  
olvi3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*TCHa 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.75 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*TCHa 50.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.75 0.0 (1.0)  
cmyn3\* 0.75 0.0 0.75 (0.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*TCHa 25.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 0.5 1.0 (1.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*TCHa 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.5 1.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.5 1.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 0.5 1.0 (1.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*TCHa 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.5 1.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.5 1.0

$n^* = 0.50$

relative Inform. Technology (IT)  
olvi3\* 0.25 1.0 0.25 (1.0)  
cmyn3\* 1.0 0.25 1.0 (0.0)  
olvi4\* 0.25 1.0 0.25 (1.0)  
cmyn4\* 0.25 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*TCHa 25.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 0.25 0.0 0.25 (0.0)  
olvi4\* 0.25 1.0 0.25 (1.0)  
cmyn4\* 0.25 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*TCHa 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.25 0.0  
lab\*ch 0.0 0.25 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.25 0.0  
lab\*trc 0.0 0.25 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 0.0 1.0 (1.0)  
olvi4\* 0.0 1.0 0.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.0 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 0.0 1.0 (1.0)  
olvi4\* 0.0 1.0 0.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.0 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 0.0 1.0 (1.0)  
olvi4\* 0.0 1.0 0.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.0 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

Schwarzheit  $n^*$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

relative Buntheit  $c^*$

$n^* = 1.0$

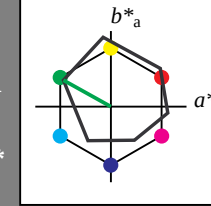
## Ausgabe: Farbmetrisches Reflexions-System ORS18

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

$lab^*ch$  und  $lab^*nch$

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

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCHa 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*TCHa 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*TCHa 50.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*TCHa 25.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 0.0 1.0 (1.0)  
olvi4\* 0.0 1.0 0.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*TCHa 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 0.0 1.0 (1.0)  
olvi4\* 0.0 1.0 0.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*TCHa 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

Schwarzheit  $n^*$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

relative Buntheit  $c^*$

$n^* = 1.0$

## 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 |
| CLMa | 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 |

%Regularität

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

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

relative Inform. Technology (IT)  
olvi3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 73.15 0.02 0.0  
LAB\*LABa 73.15 0.02 0.0  
LAB\*TCHa 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.75 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.8 0.02 0.0  
LAB\*LABa 53.8 0.02 0.0  
LAB\*TCHa 50.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ch 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.75 0.0 (1.0)  
cmyn3\*





## Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 273/360 = 0.758$

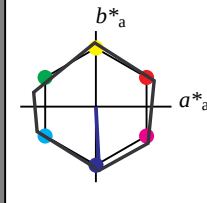
$lab^*ch$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 53 84 273

rgb\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

relative Inform. Technology (IT)

olvi3\* 0.0 0.0 0.0 (1.0)

olvi4\* 0.0 0.0 0.0 (1.0)

olvi5\* 0.0 0.0 0.0 (1.0)

olvi6\* 0.0 0.0 0.0 (1.0)

olvi7\* 0.0 0.0 0.0 (1.0)

olvi8\* 0.0 0.0 0.0 (1.0)

olvi9\* 0.0 0.0 0.0 (1.0)

olvi10\* 0.0 0.0 0.0 (1.0)

olvi11\* 0.0 0.0 0.0 (1.0)

olvi12\* 0.0 0.0 0.0 (1.0)

olvi13\* 0.0 0.0 0.0 (1.0)

olvi14\* 0.0 0.0 0.0 (1.0)

olvi15\* 0.0 0.0 0.0 (1.0)

olvi16\* 0.0 0.0 0.0 (1.0)

olvi17\* 0.0 0.0 0.0 (1.0)

olvi18\* 0.0 0.0 0.0 (1.0)

olvi19\* 0.0 0.0 0.0 (1.0)

olvi20\* 0.0 0.0 0.0 (1.0)

olvi21\* 0.0 0.0 0.0 (1.0)

olvi22\* 0.0 0.0 0.0 (1.0)

olvi23\* 0.0 0.0 0.0 (1.0)

olvi24\* 0.0 0.0 0.0 (1.0)

olvi25\* 0.0 0.0 0.0 (1.0)

olvi26\* 0.0 0.0 0.0 (1.0)

olvi27\* 0.0 0.0 0.0 (1.0)

olvi28\* 0.0 0.0 0.0 (1.0)

olvi29\* 0.0 0.0 0.0 (1.0)

olvi30\* 0.0 0.0 0.0 (1.0)

olvi31\* 0.0 0.0 0.0 (1.0)

olvi32\* 0.0 0.0 0.0 (1.0)

olvi33\* 0.0 0.0 0.0 (1.0)

olvi34\* 0.0 0.0 0.0 (1.0)

olvi35\* 0.0 0.0 0.0 (1.0)

olvi36\* 0.0 0.0 0.0 (1.0)

olvi37\* 0.0 0.0 0.0 (1.0)

olvi38\* 0.0 0.0 0.0 (1.0)

## NRS11; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 53.2          | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2          | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2          | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2          | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2          | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2          | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 53.2          | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2          | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2          | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2          | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2          | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2          | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 53.2          | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2          | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2          | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2          | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2          | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2          | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

$n^* = 0.00$

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$n^* = 36.25$

$n^* = 36.50$

$n^* = 36.75$

$n^* = 37.00$

$n^* = 37.25$



### Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton  $h^* = lab \cdot h = 25/360 = 0.071$

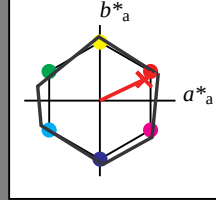
$lab \cdot tch$  und  $lab \cdot nch$

D65: Buntton R

LCH\*Ma: 53 83 25

rgb\*Ma: 1.0 0.03 0.0

Dreiecks-Helligkeit  $t^*$



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) |
| LAB*LAB  | 95.41 | 0.0  | -0.01 |       |
| LAB*Lab  | 95.41 | 0.0  | 0.0   |       |
| LAB*TCla | 99.99 | 0.01 | 0.0   |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 1.0   | 0.75  | 0.75  | (1.0) |
| cmyn3*   | 0.0   | 0.25  | 0.25  | (0.0) |
| olvi4*   | 1.0   | 0.75  | 0.75  | (1.0) |
| cmyn4*   | 0.0   | 0.25  | 0.25  | (0.0) |
| LAB*LAB  | 84.85 | 18.73 | 8.92  |       |
| LAB*Lab  | 84.85 | 18.73 | 8.92  |       |
| LAB*TCla | 87.5  | 20.74 | 25.49 |       |

relative Inform. Technology (IT)

|          |       |      |      |       |
|----------|-------|------|------|-------|
| olvi3*   | 0.75  | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25  | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0   | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0   | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 74.31 | 0.02 | 0.0  |       |
| LAB*Lab  | 74.31 | 0.02 | 0.0  |       |
| LAB*TCla | 75.0  | 0.01 | -    |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 0.75  | 0.25  | 0.25  | (1.0) |
| cmyn3*   | 0.25  | 0.75  | 0.75  | (0.0) |
| olvi4*   | 1.0   | 0.75  | 0.75  | (1.0) |
| cmyn4*   | 0.0   | 0.25  | 0.25  | (0.0) |
| LAB*LAB  | 63.75 | 18.73 | 8.92  |       |
| LAB*Lab  | 63.75 | 18.73 | 8.92  |       |
| LAB*TCla | 62.5  | 20.74 | 25.49 |       |

relative Inform. Technology (IT)

|          |       |      |      |       |
|----------|-------|------|------|-------|
| olvi3*   | 0.75  | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25  | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0   | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0   | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 53.21 | 0.04 | 0.0  |       |
| LAB*Lab  | 53.21 | 0.04 | 0.0  |       |
| LAB*TCla | 50.0  | 0.01 | -    |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 0.75  | 0.25  | 0.25  | (1.0) |
| cmyn3*   | 0.25  | 0.75  | 0.75  | (0.0) |
| olvi4*   | 1.0   | 0.75  | 0.75  | (1.0) |
| cmyn4*   | 0.0   | 0.25  | 0.25  | (0.0) |
| LAB*LAB  | 42.65 | 18.73 | 8.92  |       |
| LAB*Lab  | 42.65 | 18.73 | 8.92  |       |
| LAB*TCla | 37.5  | 20.74 | 25.49 |       |

relative Inform. Technology (IT)

|          |       |      |      |       |
|----------|-------|------|------|-------|
| olvi3*   | 0.75  | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25  | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0   | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0   | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 32.11 | 0.07 | 0.01 |       |
| LAB*Lab  | 32.11 | 0.07 | 0.01 |       |
| LAB*TCla | 25.0  | 0.01 | -    |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 0.75  | 0.25  | 0.25  | (1.0) |
| cmyn3*   | 0.25  | 0.75  | 0.75  | (0.0) |
| olvi4*   | 1.0   | 0.75  | 0.75  | (1.0) |
| cmyn4*   | 0.0   | 0.25  | 0.25  | (0.0) |
| LAB*LAB  | 21.55 | 18.73 | 8.92  |       |
| LAB*Lab  | 21.55 | 18.73 | 8.92  |       |
| LAB*TCla | 12.5  | 20.74 | 25.49 |       |

relative Inform. Technology (IT)

|          |       |      |      |       |
|----------|-------|------|------|-------|
| olvi3*   | 0.75  | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25  | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0   | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0   | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 11.01 | 0.07 | 0.01 |       |
| LAB*Lab  | 11.01 | 0.07 | 0.01 |       |
| LAB*TCla | 0.01  | 0.01 | -    |       |

relative Inform. Technology (IT)

|          |       |      |      |       |
|----------|-------|------|------|-------|
| olvi3*   | 0.75  | 0.25 | 0.25 | (1.0) |
| cmyn3*   | 0.25  | 0.75 | 0.75 | (0.0) |
| olvi4*   | 1.0   | 0.75 | 0.75 | (1.0) |
| cmyn4*   | 0.0   | 0.25 | 0.25 | (0.0) |
| LAB*LAB  | 0.125 | 0.25 | 0.0  |       |
| LAB*Lab  | 0.125 | 0.25 | 0.0  |       |
| LAB*TCla | 0.75  | 0.25 | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0  | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.25 | 0.25 | (1.0) |
| cmyn3*   | 0.25 | 0.75 | 0.75 | (0.0) |
| olvi4*   | 1.0  | 0.75 | 0.75 | (1.0) |
| cmyn4*   | 0.0  | 0.25 | 0.25 | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0  | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.25 | 0.25 | (1.0) |
| cmyn3*   | 0.25 | 0.75 | 0.75 | (0.0) |
| olvi4*   | 1.0  | 0.75 | 0.75 | (1.0) |
| cmyn4*   | 0.0  | 0.25 | 0.25 | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0  | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.25 | 0.25 | (1.0) |
| cmyn3*   | 0.25 | 0.75 | 0.75 | (0.0) |
| olvi4*   | 1.0  | 0.75 | 0.75 | (1.0) |
| cmyn4*   | 0.0  | 0.25 | 0.25 | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4*   | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4*   | 0.0  | 0.0  | 0.0  | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

relative Inform. Technology (IT)

|          |      |      |      |       |
|----------|------|------|------|-------|
| olvi3*   | 0.75 | 0.25 | 0.25 | (1.0) |
| cmyn3*   | 0.25 | 0.75 | 0.75 | (0.0) |
| olvi4*   | 1.0  | 0.75 | 0.75 | (1.0) |
| cmyn4*   | 0.0  | 0.25 | 0.25 | (0.0) |
| LAB*LAB  | 0.0  | 0.0  | 0.0  |       |
| LAB*Lab  | 0.0  | 0.0  | 0.0  |       |
| LAB*TCla | 0.0  | 0.0  | 0.0  |       |

### NRS11; adaptierte CIELAB-Daten

$L^* = L^*_a \ a^*_a \ b^*_a \ C^*_{ab,a} \ h^*_{ab,a}$

|        |       |        |        |       |     |
|--------|-------|--------|--------|-------|-----|
| RMa    | 53.2  | 77.06  | 34.32  | 84.36 | 24  |
| JMa    | 53.2  | -1.51  | 84.38  | 84.39 | 91  |
| GMa    | 53.2  | -82.27 | 18.98  | 84.44 | 167 |
| G50BMa | 53.2  | -77.72 | -32.98 | 84.44 | 203 |
| BMa    | 53.2  | 4.37   | -84.28 | 84.41 | 273 |
| B50RMa | 53.2  | 69.09  | -48.41 | 84.37 | 325 |
| NMa    | 10.99 | 0.0    | 0.0    | 0.0   | 0   |
| WMa    | 95.41 | 0.0    | 0.0    | 0.0   | 0   |
| RCIE   | 39.92 | 58.69  | 27.98  | 65.01 | 25  |
| JCIE   | 81.26 | -2.9   | 71.56  | 71.62 | 92  |
| GCIE   | 52.23 | -42.45 | 13.59  | 44.59 | 162 |
| BCIE   | 30.57 | 1.35   | -46.48 | 46.51 | 272 |

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| olvi3*   | 1.0  | 0.514 | 0.5   | (1.0) |
| cmyn3*   | 0.0  | 0.486 | 0.5   | (0.0) |
| olvi4*   | 1.0  | 0.514 | 0.5   | (1.0) |
| cmyn4*   | 0.0  | 0.486 | 0.5   | (0.0) |
| LAB*LAB  | 74.3 | 37.44 | 17.85 |       |
| LAB*Lab  | 74.3 | 37.44 | 17.85 |       |
| LAB*TCla | 75.0 | 41.47 | 25.49 |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 1.0   | 0.271 | 0.25  | (1.0) |
| cmyn3*   | 0.0   | 0.729 | 0.25  | (0.0) |
| olvi4*   | 1.0   | 0.271 | 0.25  | (1.0) |
| cmyn4*   | 0.0   | 0.729 | 0.25  | (0.0) |
| LAB*LAB  | 63.75 | 56.2  | 26.78 |       |
| LAB*Lab  | 63.75 | 56.2  | 26.78 |       |
| LAB*TCla | 62.5  | 62.22 | 25.49 |       |

relative Inform. Technology (IT)

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| olvi3*   | 1.0  | 0.028 | 0.0   | (1.0) |
| cmyn3*   | 0.0  | 0.972 | 0.0   | (0.0) |
| olvi4*   | 1.0  | 0.028 | 0.0   | (1.0) |
| cmyn4*   | 0.0  | 0.972 | 0.0   | (0.0) |
| LAB*LAB  | 53.2 | 74.88 | 35.69 |       |
| LAB*Lab  | 53.2 | 74.88 | 35.69 |       |
| LAB*TCla | 50.0 | 82.95 | 25.48 |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 0.75  | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25  | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0   | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0   | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 42.65 | 56.2  | 26.78 |       |
| LAB*Lab  | 42.65 | 56.2  | 26.78 |       |
| LAB*TCla | 37.5  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| olvi3*   | 0.75 | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25 | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0  | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0  | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 32.1 | 37.45 | 17.85 |       |
| LAB*Lab  | 32.1 | 37.45 | 17.85 |       |
| LAB*TCla | 30.0 | 41.48 | 25.49 |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 0.75  | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25  | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0   | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0   | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 21.55 | 56.2  | 26.78 |       |
| LAB*Lab  | 21.55 | 56.2  | 26.78 |       |
| LAB*TCla | 12.5  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 0.75  | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25  | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0   | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0   | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 11.01 | 56.2  | 26.78 |       |
| LAB*Lab  | 11.01 | 56.2  | 26.78 |       |
| LAB*TCla | 0.01  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|          |       |       |       |       |
|----------|-------|-------|-------|-------|
| olvi3*   | 0.75  | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25  | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0   | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0   | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 0.125 | 56.2  | 26.78 |       |
| LAB*Lab  | 0.125 | 56.2  | 26.78 |       |
| LAB*TCla | 0.75  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| olvi3*   | 0.75 | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25 | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0  | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0  | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 0.0  | 56.2  | 26.78 |       |
| LAB*Lab  | 0.0  | 56.2  | 26.78 |       |
| LAB*TCla | 0.0  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| olvi3*   | 0.75 | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25 | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0  | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0  | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 0.0  | 56.2  | 26.78 |       |
| LAB*Lab  | 0.0  | 56.2  | 26.78 |       |
| LAB*TCla | 0.0  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| olvi3*   | 0.75 | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25 | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0  | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0  | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 0.0  | 56.2  | 26.78 |       |
| LAB*Lab  | 0.0  | 56.2  | 26.78 |       |
| LAB*TCla | 0.0  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| olvi3*   | 0.75 | 0.021 | 0.0   | (1.0) |
| cmyn3*   | 0.25 | 0.979 | 0.0   | (0.0) |
| olvi4*   | 1.0  | 0.021 | 0.0   | (1.0) |
| cmyn4*   | 0.0  | 0.979 | 0.0   | (0.0) |
| LAB*LAB  | 0.0  | 56.2  | 26.78 |       |
| LAB*Lab  | 0.0  | 56.2  | 26.78 |       |
| LAB*TCla | 0.0  | 62.22 | 25.48 |       |

relative Inform. Technology (IT)

|        |      |       |     |    |
|--------|------|-------|-----|----|
| olvi3* | 0.75 | 0.021 | 0.0 | (1 |
|--------|------|-------|-----|----|

## Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 92/360 = 0.256$

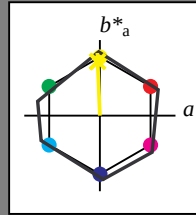
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 53 83 92

rgb\*Ma: 0.98 1.0 0.0

Dreiecks-Helligkeit  $t^*$



| NRS11; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa                            | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa                            | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa                         | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa                            | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa                         | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa                            | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                            | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                           | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE                           | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE                           | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE                           | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

| relative Inform. Technology (IT) |                   |
|----------------------------------|-------------------|
| olvi3*                           | 1.0 1.0 1.0 (1.0) |
| cmyn3*                           | 0.0 0.0 0.0 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 95.41 0.0 -0.01   |
| LAB*LABa                         | 95.41 0.0 0.0     |
| LAB*LABb                         | 99.99 0.01 0.0    |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.994 1.0 0.75 (1.0) |
| cmyn3*                           | 0.006 0.0 0.25 (0.0) |
| olvi4*                           | 0.994 1.0 0.75 (1.0) |
| cmyn4*                           | 0.006 0.0 0.25 (0.0) |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 84.85 -0.81 20.72    |
| LAB*LABa                         | 84.85 -0.82 20.72    |
| LAB*LABb                         | 97.5 -20.73 92.31    |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 74.31 0.02 0.0       |
| LAB*LABa                         | 74.31 0.0 0.0        |
| LAB*LABb                         | 75.0 0.01 0.0        |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 53.21 0.04 0.0    |
| LAB*LABa                         | 53.21 0.0 0.0     |
| LAB*LABb                         | 50.0 0.01 0.0     |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 0.0        |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 0.0        |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 0.0     |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.994 1.0 0.75 (1.0) |
| cmyn3*                           | 0.006 0.0 0.25 (0.0) |
| olvi4*                           | 0.994 1.0 0.75 (1.0) |
| cmyn4*                           | 0.006 0.0 0.25 (0.0) |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 84.85 -0.81 20.72    |
| LAB*LABa                         | 84.85 -0.82 20.72    |
| LAB*LABb                         | 97.5 -20.73 92.31    |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 74.31 0.02 0.0       |
| LAB*LABa                         | 74.31 0.0 0.0        |
| LAB*LABb                         | 75.0 0.01 0.0        |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 53.21 0.04 0.0    |
| LAB*LABa                         | 53.21 0.0 0.0     |
| LAB*LABb                         | 50.0 0.01 0.0     |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 0.0        |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 0.0        |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.21 0.04 0.0       |
| LAB*LABa                         | 53.21 0.0 0.0        |
| LAB*LABb                         | 50.0 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 0.0     |

| relative Inform. Technology (IT) |                     |
|----------------------------------|---------------------|
| olvi3*                           | 0.989 1.0 0.5 (1.0) |
| cmyn3*                           | 0.011 0.0 0.5 (0.0) |
| olvi4*                           | 0.989 1.0 0.5 (1.0) |
| cmyn4*                           | 0.011 0.0 0.5 (0.0) |
| standard and adapted CIELAB      |                     |
| LAB*LAB                          | 74.3 -1.64 41.44    |
| LAB*LABa                         | 74.3 -1.67 41.44    |
| LAB*LABb                         | 75.0 41.47 92.32    |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.2 -1.63 41.45     |
| LAB*LABa                         | 53.2 -1.68 41.44     |
| LAB*LABb                         | 50.0 41.47 92.33     |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.2 -1.63 41.45     |
| LAB*LABa                         | 53.2 -1.68 41.44     |
| LAB*LABb                         | 50.0 41.47 92.33     |

| 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 53.2 -1.63 41.45  |
| LAB*LABa                         | 53.2 -1.68 41.44  |
| LAB*LABb                         | 50.0 41.47 92.33  |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.2 -1.63 41.45     |
| LAB*LABa                         | 53.2 -1.68 41.44     |
| LAB*LABb                         | 50.0 41.47 92.33     |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.25 0.25 0.25 (1.0) |
| cmyn3*                           | 0.75 0.75 0.75 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.2 -1.63 41.45     |
| LAB*LABa                         | 53.2 -1.68 41.44     |
| LAB*LABb                         | 50.0 41.47 92.33     |

| 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 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 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*LABb                         | 0.01 0.01 0.0     |

| relative Inform. Technology (IT) |                     |
|----------------------------------|---------------------|
| olvi3*                           | 0.983 1.0 0.5 (1.0) |
| cmyn3*                           | 0.017 0.0 0.5 (0.0) |
| olvi4*                           | 0.983 1.0 0.5 (1.0) |
| cmyn4*                           | 0.017 0.0 0.5 (0.0) |
| standard and adapted CIELAB      |                     |
| LAB*LAB                          | 63.75 -2.48 62.16   |
| LAB*LABa                         | 63.75 -2.51 62.15   |
| LAB*LABb                         | 62.5 62.21 92.32    |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.2 -3.31 82.87     |
| LAB*LABa                         | 53.2 -3.35 82.86     |
| LAB*LABb                         | 50.0 82.93 92.32     |

| relative Inform. Technology (IT) |                      |
|----------------------------------|----------------------|
| olvi3*                           | 0.75 0.75 0.75 (1.0) |
| cmyn3*                           | 0.25 0.25 0.25 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.2 -3.31 82.87     |
| LAB*LABa                         | 53.2 -3.35 82.86     |
| LAB*LABb                         | 50.0 82.93 92.32     |

| 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 (1.0)  |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)  |
| standard and adapted CIELAB      |                    |
| LAB*LAB                          | 53.2 -3.31 82.87   |
| LAB*LABa                         | 53.2 -3.35 82.86   |
| LAB*LABb                         | 50.0 82.93 92.32</ |



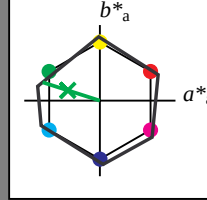
## Eingabe: Farbmatisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 162/360 = 0.451$

$lab^*ch$  und  $lab^*nch$

D65: Buntton G  
LCH\*Ma: 53 80 162  
rgb\*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 1.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LAB 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
olvi3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LAB 50.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.01 0.0  
LAB\*LAB 32.11 0.01 0.0  
LAB\*LAB 25.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

UG570-7, 5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

BAM-Prüfvorlage UG57; Farbmatrik-Systeme NRS11 & ORS18input: cmy0\* setcmykcolor

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen; no change compared to input

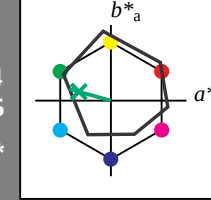
## Ausgabe: Farbmatisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 164/360 = 0.457$

$lab^*ch$  und  $lab^*nch$

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

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.97 4.75  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 1.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LAB 76.06 0.0 0.0  
LAB\*LAB 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
olvi3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 2.14  
LAB\*LAB 56.71 0.23 2.14  
LAB\*LAB 50.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.01 0.0  
LAB\*LAB 32.11 0.01 0.0  
LAB\*LAB 25.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.25 0.25 0.25 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0  
LAB\*LAB 0.01 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)  
lab\*lab 0.0 0.0 0.0 (0.0)

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

## Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton  $h^* = lab \cdot h = 272/360 = 0.755$

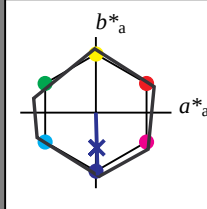
$lab \cdot tch$  und  $lab \cdot nch$

D65: Buntton B

LCH\*Ma: 53 83 272

rgb\*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LABa 74.31 0.02 0.0  
LAB\*LABb 74.31 0.02 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*tch 0.75 0.0 0.0  
lab\*nch 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 53.21 0.04 0.0  
LAB\*LABa 53.21 0.04 0.0  
LAB\*LABb 53.21 0.04 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*LABb 32.11 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.25 0.0 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 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*LABb 11.01 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

$n^* = 1.0$

## NRS11; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 53.2          | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2          | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2          | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2          | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2          | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2          | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)

olvi3\* 0.5 0.512 1.0 (1.0)  
cmyn3\* 0.5 0.512 1.0 (1.0)  
olvi4\* 0.5 0.512 1.0 (1.0)  
cmyn4\* 0.5 0.512 1.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 74.3 1.23 -41.51  
LAB\*LABa 74.3 1.23 -41.51  
LAB\*LABb 74.3 1.23 -41.51

relative CIELAB lab\*  
lab\*lab 0.75 0.014 -0.499  
lab\*tch 0.75 0.0 0.575  
lab\*nch 0.75 0.0 0.575  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 -0.499  
lab\*trc 0.75 0.0 0.575  
lab\*ncc 0.75 0.0 0.575

relative Inform. Technology (IT)

olvi3\* 0.25 0.262 0.75 (1.0)  
cmyn3\* 0.75 0.738 0.25 (0.0)  
olvi4\* 0.5 0.512 1.0 (0.75)  
cmyn4\* 0.5 0.488 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 53.2 1.25 -41.51  
LAB\*LABa 53.2 1.25 -41.51  
LAB\*LABb 53.2 1.25 -41.51

relative CIELAB lab\*  
lab\*lab 0.5 0.015 -0.499  
lab\*tch 0.5 0.0 0.575  
lab\*nch 0.5 0.0 0.575  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 -0.499  
lab\*trc 0.5 0.0 0.575  
lab\*ncc 0.5 0.0 0.575

relative Inform. Technology (IT)

olvi3\* 0.0 0.012 0.5 (1.0)  
cmyn3\* 1.0 0.988 0.5 (0.0)  
olvi4\* 0.5 0.512 1.0 (0.5)  
cmyn4\* 0.5 0.488 0.0 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 32.1 1.21 -41.52  
LAB\*LABa 32.1 1.21 -41.52  
LAB\*LABb 32.1 1.21 -41.52

relative CIELAB lab\*  
lab\*lab 0.0 0.015 -0.499  
lab\*tch 0.25 0.5 0.755  
lab\*nch 0.25 0.5 0.755  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 -0.499  
lab\*trc 0.25 0.5 0.755  
lab\*ncc 0.25 0.5 0.755

$n^* = 0.50$

relative Inform. Technology (IT)

olvi3\* 0.25 0.268 1.0 (1.0)  
cmyn3\* 0.75 0.732 0.0 (0.0)  
olvi4\* 0.25 0.268 1.0 (1.0)  
cmyn4\* 0.75 0.732 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 63.75 1.84 -62.28  
LAB\*LABa 63.75 1.84 -62.28  
LAB\*LABb 63.75 1.84 -62.28

relative CIELAB lab\*  
lab\*lab 0.625 0.75 -0.749  
lab\*tch 0.625 0.75 0.755  
lab\*nch 0.625 0.75 0.755  
relative Natural Colour (NC)  
lab\*trj 0.625 0.0 -0.749  
lab\*trc 0.625 0.75 0.755  
lab\*ncc 0.625 0.75 0.755

relative Inform. Technology (IT)

olvi3\* 0.0 0.018 0.75 (1.0)  
cmyn3\* 1.0 0.982 0.25 (0.0)  
olvi4\* 0.25 0.268 1.0 (0.75)  
cmyn4\* 0.75 0.732 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 42.65 1.87 -62.27  
LAB\*LABa 42.65 1.87 -62.27  
LAB\*LABb 42.65 1.87 -62.27

relative CIELAB lab\*  
lab\*lab 0.375 0.022 -0.749  
lab\*tch 0.375 0.75 0.755  
lab\*nch 0.375 0.75 0.755  
relative Natural Colour (NC)  
lab\*trj 0.375 0.0 -0.749  
lab\*trc 0.375 0.75 0.755  
lab\*ncc 0.375 0.75 0.755

relative Inform. Technology (IT)

olvi3\* 0.375 0.022 -0.749  
cmyn3\* 0.75 0.732 0.0 (0.0)  
olvi4\* 0.375 0.022 -0.749  
cmyn4\* 0.75 0.732 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.5 1.23 -41.52  
LAB\*LABa 37.5 1.23 -41.52  
LAB\*LABb 37.5 1.23 -41.52

relative CIELAB lab\*  
lab\*lab 0.375 0.022 -0.749  
lab\*tch 0.375 0.75 0.755  
lab\*nch 0.375 0.75 0.755  
relative Natural Colour (NC)  
lab\*trj 0.375 0.0 -0.749  
lab\*trc 0.375 0.75 0.755  
lab\*ncc 0.375 0.75 0.755

$n^* = 0.25$

relative Inform. Technology (IT)

olvi3\* 0.0 0.024 1.0 (1.0)  
cmyn3\* 1.0 0.976 0.0 (0.0)  
olvi4\* 0.0 0.024 1.0 (1.0)  
cmyn4\* 1.0 0.976 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.2 2.42 -83.04  
LAB\*LABa 53.2 2.42 -83.04  
LAB\*LABb 53.2 2.42 -83.04

relative CIELAB lab\*  
lab\*lab 0.5 0.029 -0.998  
lab\*tch 0.5 0.0 1.0  
lab\*nch 0.5 0.0 1.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 -0.999  
lab\*trc 0.5 0.0 1.0  
lab\*ncc 0.5 0.0 1.0

relative Inform. Technology (IT)

olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (0.5)  
cmyn4\* 0.25 0.25 0.25 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 21.14  
LAB\*LABa 56.71 0.23 21.14  
LAB\*LABb 56.71 0.23 21.14

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)

olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (0.5)  
cmyn4\* 0.25 0.25 0.25 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 21.14  
LAB\*LABa 56.71 0.23 21.14  
LAB\*LABb 56.71 0.23 21.14

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

$n^* = 0.00$

## Ausgabe: Farbmetrisches Reflexions-System ORS18

für Buntton  $h^* = lab \cdot h = 271/360 = 0.754$

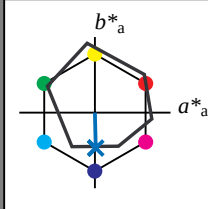
$lab \cdot tch$  und  $lab \cdot nch$

D65: Buntton B

LCH\*Ma: 42 45 271

rgb\*Ma: 0.0 0.49 1.0

Dreiecks-Helligkeit  $t^*$



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\*LABb 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*tch 0.75 0.0 0.0  
lab\*nch 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 0.0  
lab\*ncc 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (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 56.71 0.23 21.14  
LAB\*LABa 56.71 0.23 21.14  
LAB\*LABb 56.71 0.23 21.14

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 0.0  
lab\*nch 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 0.0  
lab\*ncc 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*LABa 32.11 0.07 0.01  
LAB\*LABb 32.11 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 0.0  
lab\*ncc 0.25 0.0 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 11.01 0.07 0.01  
LAB\*LABa 11.01 0.07 0.01  
LAB\*LABb 11.01 0.07 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)

olvi3\* 0.75 0.872 1.0 (1.0)  
cmyn3\* 0.25 0.128 0.0 (0.0)  
olvi4\* 0.75 0.872 1.0 (1.0)  
cmyn4\* 0.25 0.128 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 82.0 -0.44 -7.31  
LAB\*LABa 82.0 0.27 -11.17  
LAB\*LABb 82.0 0.27 -11.17

relative CIELAB lab\*  
lab\*lab 0.75 0.006 -0.249  
lab\*tch 0.75 0.25 0.754  
lab\*nch 0.75 0.25 0.754  
relative Natural Colour (NC)  
lab\*trj 0.827 0.0 -0.249  
lab\*trc 0.75 0.25 0.754  
lab\*ncc 0.75 0.25 0.754

relative Inform. Technology (IT)

olvi3\* 0.5 0.622 0.75 (1.0)  
cmyn3\* 0.5 0.378 0.25 (0.0)  
olvi4\* 0.75 0.872 1.0 (0.75)  
cmyn4\* 0.25 0.128 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 62.65 -0.07 -8.62  
LAB\*LABa 62.65 0.27 -11.17  
LAB\*LABb 62.65 0.27 -11.17

relative CIELAB lab\*  
lab\*lab 0.622 0.006 -0.249  
lab\*tch 0.622 0.25 0.754  
lab\*nch 0.622 0.25 0.754  
relative Natural Colour (NC)  
lab\*trj 0.577 0.0 -0.249  
lab\*trc 0.622 0.25 0.754  
lab\*ncc 0.622 0.25 0.754

relative Inform. Technology (IT)

olvi3\* 0.25 0.484 0.75 (1.0)  
cmyn3\* 0.75 0.516 0.25 (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 49.25 0.45 -20.71  
LAB\*LABa 49.25 0.45 -20.71  
LAB\*LABb 49.25 0.45 -20.71

relative CIELAB lab\*  
lab\*lab 0.484 0.012 -0.499  
lab\*tch 0.484 0.25 0.754  
lab\*nch 0.484 0.25 0.754  
relative Natural Colour (NC)  
lab\*trj 0.404 0.0 -0.499  
lab\*trc 0.484 0.25 0.754  
lab\*ncc 0.484 0.25 0.754

relative Inform. Technology (IT)

olvi3\* 0.0 0.356 0.75 (1.0)  
cmyn3\* 1.0 0.644 0.25 (0.0)  
olvi4\* 0.25 0.616 1.0 (0.75)  
cmyn4\* 0.75 0.384 0.25 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 35.59 0.82 -33.53  
LAB\*LABa 35.59 0.82 -33.53  
LAB\*LABb 35.59 0.82 -33.53

relative CIELAB lab\*  
lab\*lab 0.356 0.018 -0.749  
lab\*tch 0.356 0.25 0.754  
lab\*nch 0.356 0.25 0.754  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 -0.749  
lab\*trc 0.356 0.25 0.754  
lab\*ncc 0.356 0.25 0.754

$n^* = 0.25$

relative Inform. Technology (IT)

olvi3\* 0.75 0.872 1.0 (1.0)  
cmyn3\* 0.25 0.128 0.0 (0.0)  
olvi4\* 0.75 0.872 1.0 (1.0)  
cmyn4\* 0.25 0.128 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 82.0 -0.44 -7.31  
LAB\*LABa 82.0 0.27 -11.17  
LAB\*LABb 82.0 0.27 -11.17

relative CIELAB lab\*  
lab\*lab 0.75 0.006 -0.249  
lab\*tch 0.75 0.25 0.754  
lab\*nch 0.75 0.25 0.754  
relative Natural Colour (NC)  
lab\*trj 0.827 0.0 -0.249  
lab\*trc 0.75 0.25 0.754  
lab\*ncc 0.75 0.25 0.754

relative Inform. Technology (IT)

olvi3\* 0.5 0.622 0.75 (1.0)  
cmyn3\* 0.5 0.378 0.25 (0.0)  
olvi4\* 0.75 0.872 1.0 (0.75)  
cmyn4\* 0.25 0.128 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 62.65 -0.07 -8.62  
LAB\*LABa 62.65 0.27 -11.17  
LAB\*LABb 62.65 0.27 -11.17

relative CIELAB lab\*  
lab\*lab 0.622 0.006 -0.249  
lab\*tch 0.622 0.25 0.754  
lab\*nch 0.622 0.25 0.754  
relative Natural Colour (NC)  
lab\*trj 0.577 0.0 -0.249  
lab\*trc 0.622 0.25 0.754  
lab\*ncc 0.622 0.25 0.754

relative Inform. Technology (IT)

olvi3\* 0.25 0.484 0.75 (1.0)  
cmyn3\* 0.75 0.516 0.25 (0.0)  
olvi4