

## Eingabe: Farbmetrisches Reflexions-System MRS18

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

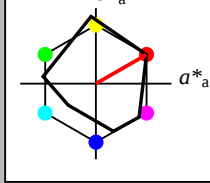
$lab^*ich$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 50 77 30

rgb\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 -0.97 4.75  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi4\* 0.25 0.25 0.25 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 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 76.06 0.0 0.0  
LAB\*LAB 76.06 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 0.5 0.5 0.5 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LAB 56.71 0.0 0.0  
LAB\*LAB 56.71 0.0 0.0  
LAB\*LAB 56.71 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
olvi4\* 0.75 0.75 0.75 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.26 1.3 0.83  
LAB\*LAB 37.26 0.0 0.0  
LAB\*LAB 37.26 0.0 0.0  
LAB\*LAB 37.26 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.46  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LAB 18.02 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 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\* 0.0 0.0 0.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01  
LAB\*LAB 0.01 0.0 0.0  
LAB\*LAB 0.01 0.0 0.0  
LAB\*LAB 0.01 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

## MRS18; adaptierte CIELAB-Daten

|                    | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|---------------|---------|---------|--------------|--------------|
| RMa                | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa                | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa                | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 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          |

%Umfang

$u^*_{rel} = 91$

%Regelartit

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

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

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

## Ausgabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 24/360 = 0.066$

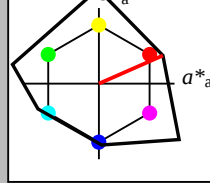
$lab^*tch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 47 92 24

rgb\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 -0.01  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi4\* 0.25 0.25 0.25 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LAB 74.31 0.0 0.0  
LAB\*LAB 74.31 0.0 0.0  
LAB\*LAB 74.31 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 0.5 0.5 0.5 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LAB 53.21 0.0 0.0  
LAB\*LAB 53.21 0.0 0.0  
LAB\*LAB 53.21 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
olvi4\* 0.75 0.75 0.75 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.05 0.0  
LAB\*LAB 32.11 0.0 0.0  
LAB\*LAB 32.11 0.0 0.0  
LAB\*LAB 32.11 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*LAB 11.01 0.0 0.0  
LAB\*LAB 11.01 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 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\* 0.0 0.0 0.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi6\* 0.0 0.0 0.0 (0.0)  
olvi7\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01  
LAB\*LAB 0.01 0.0 0.0  
LAB\*LAB 0.01 0.0 0.0  
LAB\*LAB 0.01 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

## NCS11; adaptierte CIELAB-Daten

|                    | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|---------------|---------|---------|--------------|--------------|
| RMa                | 47.15         | 84.64   | 37.25   | 92.48        | 24           |
| JMa                | 91.37         | -1.27   | 125.03  | 125.03       | 91           |
| GMa                | 63.07         | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47         | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01         | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06         | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 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          |

%Umfang

$u^*_{rel} = 149$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regelartit

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

TG53-7, 5 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (links)

5 stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.066 (rechts)

BAM-Prüfvorlage TG53; Farbmetrik-Systeme MRS18 & NCS11

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

Input:  $olv^* setrgbcolor$  /  $w^* setgray$

## Eingabe: Farbmetrisches Reflexions-System MRS18

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

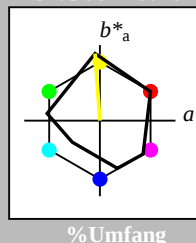
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 91 89 94

rgb\*Ma: 1.0 1.0 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  
standard and adapted CIELAB  
LAB\*LAB 95.41 -0.97 47.5  
LAB\*LAB 95.41 0.0 0.0  
LAB\*TCBa 99.99 0.01

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\*nce 1.0 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 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LAB 76.06 0.0 0.0  
LAB\*TCBa 75.0 0.01

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\*nce 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 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LAB 56.71 0.0 0.0  
LAB\*TCBa 50.0 0.01

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\*nce 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 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 37.36 -0.13 0.83  
LAB\*LAB 37.36 0.0 0.0  
LAB\*TCBa 25.0 0.01

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\*nce 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 18.02 0.0 0.46  
LAB\*LAB 18.02 0.0 0.0  
LAB\*TCBa 0.01 0.01

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\*nce 1.0 0.0 0.0

$n^* = 1.0$

## MRS18; adaptierte CIELAB-Daten

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

%Regularität

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

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

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 1.0  
cmyn4\* 0.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 93.05 -4.11 48.97  
LAB\*LAB 93.05 -3.17 44.37  
LAB\*TCBa 93.05 -4.11 48.97

relative CIELAB lab\*  
lab\*lab 0.999 -0.035 0.499  
lab\*ch 0.75 0.5 0.261  
lab\*nch 0.0 0.5 0.261  
relative Natural Colour (NC)  
lab\*trj 0.999 -0.035 0.499  
lab\*nce 0.75 0.5 0.261

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 73.7 -3.74 47.67  
LAB\*LAB 73.7 -3.17 44.38  
LAB\*TCBa 73.7 -3.74 47.67

relative CIELAB lab\*  
lab\*lab 0.737 -0.035 0.499  
lab\*ch 0.737 0.5 0.261  
lab\*nch 0.0 0.737 0.261  
relative Natural Colour (NC)  
lab\*trj 0.737 -0.035 0.499  
lab\*nce 0.737 0.5 0.261

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 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 53.21 -0.4 0.0  
LAB\*LAB 53.21 -0.4 0.0  
LAB\*TCBa 50.0 0.01

relative CIELAB lab\*  
lab\*lab 0.5321 -0.071 0.997  
lab\*ch 0.5321 0.5 0.261  
lab\*nch 0.0 0.5321 0.261  
relative Natural Colour (NC)  
lab\*trj 0.5321 -0.071 0.997  
lab\*nce 0.5321 0.5 0.261

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 32.11 -0.05 0.0  
LAB\*LAB 32.11 -0.05 0.0  
LAB\*TCBa 25.0 0.01

relative CIELAB lab\*  
lab\*lab 0.3211 -0.035 0.499  
lab\*ch 0.3211 0.5 0.261  
lab\*nch 0.0 0.3211 0.261  
relative Natural Colour (NC)  
lab\*trj 0.3211 -0.035 0.499  
lab\*nce 0.3211 0.5 0.261

$n^* = 0.50$

## Ausgabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 91/360 = 0.252$

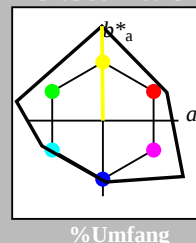
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 91 125 91

rgb\*Ma: 1.0 1.0 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  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*LAB 95.41 0.0 0.0  
LAB\*TCBa 99.99 0.01

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\*nce 1.0 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 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*LAB 74.31 0.0 0.0  
LAB\*TCBa 75.0 0.01

relative CIELAB lab\*  
lab\*lab 0.7431 0.0 0.0  
lab\*ch 0.7431 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.7431 0.0 0.0  
lab\*nce 0.7431 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 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LAB 53.21 0.0 0.0  
LAB\*TCBa 50.0 0.01

relative CIELAB lab\*  
lab\*lab 0.5321 0.0 0.0  
lab\*ch 0.5321 0.0 0.0  
lab\*nch 0.0 0.5321 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5321 0.0 0.0  
lab\*nce 0.5321 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 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.05 0.0  
LAB\*LAB 32.11 0.0 0.0  
LAB\*TCBa 25.0 0.01

relative CIELAB lab\*  
lab\*lab 0.3211 0.0 0.0  
lab\*ch 0.3211 0.0 0.0  
lab\*nch 0.0 0.3211 0.0  
relative Natural Colour (NC)  
lab\*trj 0.3211 0.0 0.0  
lab\*nce 0.3211 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 0.0 0.0  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCBa 0.0 0.01

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\*nce 1.0 0.0 0.0

$n^* = 1.0$

## NCS11; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 47.15         | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37         | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07         | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47         | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01         | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06         | 106.09  | -73.93  | 129.32       | 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

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

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 93.38 -0.62 62.5  
LAB\*LAB 93.38 -0.62 62.5  
LAB\*TCBa 93.38 -0.62 62.5

relative CIELAB lab\*  
lab\*lab 0.976 -0.004 0.5  
lab\*ch 0.75 0.5 0.252  
lab\*nch 0.0 0.5 0.252  
relative Natural Colour (NC)  
lab\*trj 0.976 0.02 0.499  
lab\*nce 0.75 0.5 0.252

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 72.29 -0.6 62.52  
LAB\*LAB 72.29 -0.62 62.51  
LAB\*TCBa 72.29 -0.62 62.51

relative CIELAB lab\*  
lab\*lab 0.7229 -0.004 0.5  
lab\*ch 0.7229 0.5 0.252  
lab\*nch 0.0 0.7229 0.252  
relative Natural Colour (NC)  
lab\*trj 0.7229 0.02 0.499  
lab\*nce 0.7229 0.5 0.252

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 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 51.18 -0.27 31.27  
LAB\*LAB 51.18 -0.27 31.26  
LAB\*TCBa 51.18 -0.27 31.26

relative CIELAB lab\*  
lab\*lab 0.5118 -0.004 0.5  
lab\*ch 0.5118 0.5 0.252  
lab\*nch 0.0 0.5118 0.252  
relative Natural Colour (NC)  
lab\*trj 0.5118 0.02 0.499  
lab\*nce 0.5118 0.5 0.252

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 31.05 -0.05 0.0  
LAB\*LAB 31.05 -0.05 0.0  
LAB\*TCBa 25.0 0.01

relative CIELAB lab\*  
lab\*lab 0.3105 -0.004 0.5  
lab\*ch 0.3105 0.5 0.252  
lab\*nch 0.0 0.3105 0.252  
relative Natural Colour (NC)  
lab\*trj 0.3105 0.02 0.499  
lab\*nce 0.3105 0.5 0.252

$n^* = 0.50$

TG53-7, 5 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.261 (links)

5 stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.252 (rechts)

BAM-Prüfvorlage TG53; Farbmetrik-Systeme MRS18 & NCS11

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

Input:  $olv^* setrgbcolor$

Output:  $olv^* setrgbcolor / w^* setgray$

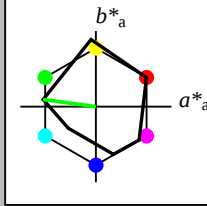
## Eingabe: Farbmetrisches Reflexions-System MRS18

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

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

D65: Buntton G  
LCH\*Ma: 52 70 172  
rgb\*Ma: 0.0 1.0 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  
standard and adapted CIELAB  
LAB\*LAB 95.41 -0.97 4.75  
LAB\*LAB 95.41 0.0 0.0  
LAB\*TCMa 99.99 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 -  
lab\*ncc 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LAB 76.06 0.0 0.0  
LAB\*TCMa 75.00 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*trc 0.75 0.0 -  
lab\*ncc 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 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LAB 56.71 0.0 0.0  
LAB\*TCMa 50.00 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*trc 0.5 0.0 -  
lab\*ncc 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 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 37.36 0.13 0.83  
LAB\*LAB 37.36 0.0 0.0  
LAB\*TCMa 25.00 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*trc 0.25 0.0 -  
lab\*ncc 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 18.02 0.0 0.46  
LAB\*LAB 18.02 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 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 18.02 0.0 0.46  
LAB\*LAB 18.02 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.75 1.0 0.75 (1.0)  
cmyn3\* 0.25 0.0 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.25 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.58 -18.19 6.39  
LAB\*LAB 84.58 -17.42 2.36  
LAB\*TCMa 87.5 17.59 172.29

relative CIELAB lab\*  
lab\*lab 0.86 -0.247 0.034  
lab\*ch 0.875 0.25 0.479  
lab\*nch 0.0 0.25 0.479  
relative Natural Colour (NC)  
lab\*trj 0.86 -0.247 -0.028  
lab\*trc 0.875 0.25 0.518  
lab\*ncc 0.0 0.25 0.518

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 0.75 1.0 0.75 (0.75)  
cmyn4\* 0.25 0.0 0.25 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 65.23 -17.42 2.36  
LAB\*LAB 65.23 -17.42 2.36  
LAB\*TCMa 62.5 17.59 172.29

relative CIELAB lab\*  
lab\*lab 0.61 -0.247 -0.028  
lab\*ch 0.625 0.25 0.518  
lab\*nch 0.0 0.25 0.518  
relative Natural Colour (NC)  
lab\*trj 0.61 -0.247 -0.028  
lab\*trc 0.625 0.25 0.518  
lab\*ncc 0.0 0.25 0.518

relative Inform. Technology (IT)  
olvi3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.5 0.75 (0.0)  
olvi4\* 0.75 1.0 0.75 (0.5)  
cmyn4\* 0.25 0.0 0.25 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 45.88 -17.46 3.78  
LAB\*LAB 45.88 -17.42 2.36  
LAB\*TCMa 37.5 17.59 172.29

relative CIELAB lab\*  
lab\*lab 0.36 -0.247 -0.028  
lab\*ch 0.375 0.25 0.479  
lab\*nch 0.0 0.25 0.479  
relative Natural Colour (NC)  
lab\*trj 0.36 -0.247 -0.028  
lab\*trc 0.375 0.25 0.479  
lab\*ncc 0.0 0.25 0.479

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olvi4\* 0.75 1.0 0.75 (0.0)  
cmyn4\* 0.25 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 35.06 -34.67 5.41  
LAB\*LAB 35.06 -34.67 5.41  
LAB\*TCMa 25.01 35.18 172.29

relative CIELAB lab\*  
lab\*lab 0.22 -0.494 0.067  
lab\*ch 0.25 0.5 0.479  
lab\*nch 0.0 0.5 0.479  
relative Natural Colour (NC)  
lab\*trj 0.22 -0.494 -0.056  
lab\*trc 0.25 0.5 0.518  
lab\*ncc 0.0 0.5 0.518

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*LAB 18.02 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.11 -0.247 0.034  
lab\*ch 0.125 0.25 0.479  
lab\*nch 0.0 0.25 0.479  
relative Natural Colour (NC)  
lab\*trj 0.11 -0.247 -0.028  
lab\*trc 0.125 0.25 0.518  
lab\*ncc 0.0 0.25 0.518

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*LAB 18.02 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

## MRS18; adaptierte CIELAB-Daten

|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| RMa                | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| JMa                | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| GMa                | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 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

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

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

relative Inform. Technology (IT)  
olvi3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.0 0.5 (0.0)  
olvi4\* 0.5 1.0 0.5 1.0  
cmyn4\* 0.5 0.0 0.5 0.0  
standard and adapted CIELAB  
LAB\*LAB 73.75 -35.42 8.02  
LAB\*LAB 73.75 -34.85 4.72  
LAB\*TCMa 75.0 35.18 172.29

relative CIELAB lab\*  
lab\*lab 0.72 -0.494 0.067  
lab\*ch 0.75 0.5 0.479  
lab\*nch 0.0 0.5 0.479  
relative Natural Colour (NC)  
lab\*trj 0.72 -0.494 -0.056  
lab\*trc 0.75 0.5 0.518  
lab\*ncc 0.0 0.5 0.518

relative Inform. Technology (IT)  
olvi3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.5 1.0 0.5 0.75  
cmyn4\* 0.5 0.0 0.5 0.25  
standard and adapted CIELAB  
LAB\*LAB 54.41 -35.05 6.71  
LAB\*LAB 54.41 -34.86 4.72  
LAB\*TCMa 50.0 35.18 172.29

relative CIELAB lab\*  
lab\*lab 0.47 -0.494 0.067  
lab\*ch 0.5 0.5 0.479  
lab\*nch 0.0 0.5 0.479  
relative Natural Colour (NC)  
lab\*trj 0.47 -0.494 -0.056  
lab\*trc 0.5 0.5 0.518  
lab\*ncc 0.0 0.5 0.518

relative Inform. Technology (IT)  
olvi3\* 0.0 0.75 0.0 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.5 1.0 0.5 0.75  
cmyn4\* 0.5 0.0 0.5 0.25  
standard and adapted CIELAB  
LAB\*LAB 44.41 -35.05 6.71  
LAB\*LAB 44.41 -34.86 4.72  
LAB\*TCMa 50.0 35.18 172.29

relative CIELAB lab\*  
lab\*lab 0.33 -0.744 -0.085  
lab\*ch 0.625 0.75 0.518  
lab\*nch 0.0 0.75 0.518  
relative Natural Colour (NC)  
lab\*trj 0.33 -0.744 -0.085  
lab\*trc 0.625 0.75 0.518  
lab\*ncc 0.0 0.75 0.518

relative Inform. Technology (IT)  
olvi3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.5 1.0 0.5 0.0  
cmyn4\* 0.5 0.0 0.5 0.0  
standard and adapted CIELAB  
LAB\*LAB 52.11 -69.73 9.44  
LAB\*LAB 52.11 -69.73 9.44  
LAB\*TCMa 50.0 70.36 172.29

relative CIELAB lab\*  
lab\*lab 0.441 -0.99 0.134  
lab\*ch 0.5 1.0 0.479  
lab\*nch 0.0 1.0 0.479  
relative Natural Colour (NC)  
lab\*trj 0.441 -0.992 -0.114  
lab\*trc 0.5 1.0 0.518  
lab\*ncc 0.0 1.0 0.518

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.25 1.0 0.25 (1.0)  
cmyn3\* 0.75 0.0 0.75 (0.0)  
olvi4\* 0.25 1.0 0.25 1.0  
cmyn4\* 0.75 0.0 0.75 0.0  
standard and adapted CIELAB  
LAB\*LAB 62.93 -52.64 9.65  
LAB\*LAB 62.93 -52.28 7.08  
LAB\*TCMa 62.5 52.77 172.29

relative CIELAB lab\*  
lab\*lab 0.58 -0.744 0.085  
lab\*ch 0.625 0.75 0.518  
lab\*nch 0.0 0.75 0.518  
relative Natural Colour (NC)  
lab\*trj 0.58 -0.744 -0.085  
lab\*trc 0.625 0.75 0.518  
lab\*ncc 0.0 0.75 0.518

relative Inform. Technology (IT)  
olvi3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.5 1.0 0.5 0.75  
cmyn4\* 0.5 0.0 0.5 0.25  
standard and adapted CIELAB  
LAB\*LAB 52.11 -69.73 9.44  
LAB\*LAB 52.11 -69.73 9.44  
LAB\*TCMa 50.0 70.36 172.29

relative CIELAB lab\*  
lab\*lab 0.441 -0.99 0.134  
lab\*ch 0.5 1.0 0.479  
lab\*nch 0.0 1.0 0.479  
relative Natural Colour (NC)  
lab\*trj 0.441 -0.992 -0.114  
lab\*trc 0.5 1.0 0.518  
lab\*ncc 0.0 1.0 0.518

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 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 0.0 0.01  
LAB\*LAB 11.01 0.0 0.0  
LAB\*TCMa 0.01 0.01 -

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 -  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*trc 0.0 0.0 -  
lab\*ncc 1.0 0.0 -

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

Schwarzheit  $n^*$

$n^* = 0.50$

0.25

0.50

0.75

1.00

relative Buntheit  $c^*$

0.00

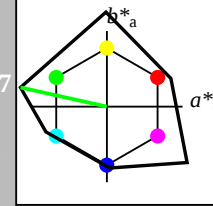
## Ausgabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 167/360 = 0.465$

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

D65: Buntton G  
LCH\*Ma: 63 117 167  
rgb\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

für 10 Bunttöne: `output: olv* setrgbcolor / w* setgray`

## Eingabe: Farbmetrisches Reflexions-System MRS18

für Buntton  $h^* = lab^*h = 290/360 = 0.806$

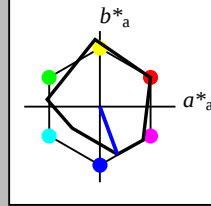
$lab^*ich$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 37 67 290

rgb\*Ma: 0.0 0.0 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 47.5  
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\*ich 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 0.75  
cmyn4\* 0.0 0.0 0.0 0.25

standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.75 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.5 0.0 0.0  
lab\*ich 0.5 0.0 0.0  
lab\*nch 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 0.75  
cmyn4\* 0.0 0.0 0.0 0.25

standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.75 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.5 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75

standard and adapted CIELAB  
LAB\*LAB 37.36 -1.3 0.83  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 37.36 0.0 0.0

relative CIELAB lab\*

## MRS18; adaptierte CIELAB-Daten

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

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

%Regularität

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

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

relative Inform. Technology (IT)

olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 66.03 11.29 -31.51  
LAB\*LABa 66.03 0.0 0.0  
LAB\*LABb 66.03 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.62 0.173 -0.468  
lab\*ich 0.62 0.173 -0.468  
lab\*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab\*trj 0.62 0.173 -0.468  
lab\*trc 0.62 0.173 -0.468  
lab\*ncc 0.0 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 0.25  
cmyn4\* 0.0 0.0 0.0 0.75

standard and adapted CIELAB  
LAB\*LAB 46.68 11.39 -31.52  
LAB\*LABa 46.68 0.0 0.0  
LAB\*LABb 46.68 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.431 0.193 -0.724  
lab\*ich 0.431 0.193 -0.724  
lab\*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab\*trj 0.431 0.193 -0.724  
lab\*trc 0.431 0.193 -0.724  
lab\*ncc 0.0 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

relative Inform. Technology (IT)

olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75

standard and adapted CIELAB  
LAB\*LAB 32.0 17.39 -47.29  
LAB\*LABa 32.0 0.0 0.0  
LAB\*LABb 32.0 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.181 0.259 -0.703  
lab\*ich 0.181 0.259 -0.703  
lab\*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab\*trj 0.181 0.259 -0.703  
lab\*trc 0.181 0.259 -0.703  
lab\*ncc 0.0 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 0.0 0.0  
LAB\*LABa 11.01 0.0 0.0  
LAB\*LABb 11.01 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.0 0.0 0.0  
lab\*ich 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

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

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

0.75

1.00

relative Buntheit  $c^*$

## Ausgabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 273/360 = 0.757$

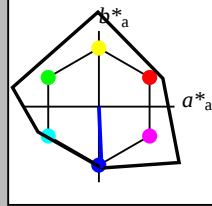
$lab^*tch$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 49 81 273

rgb\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 149$

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 47.5  
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\*ich 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 0.75  
cmyn4\* 0.0 0.0 0.0 0.25

standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.75 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.5 0.0 0.0  
lab\*ich 0.5 0.0 0.0  
lab\*nch 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 0.75  
cmyn4\* 0.0 0.0 0.0 0.25

standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.75 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.5 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75

standard and adapted CIELAB  
LAB\*LAB 37.36 -1.3 0.83  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 37.36 0.0 0.0

relative CIELAB lab\*

relative Inform. Technology (IT)

olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25

standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.75 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.5 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75

standard and adapted CIELAB  
LAB\*LAB 37.36 -1.3 0.83  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 37.36 0.0 0.0

relative CIELAB lab\*

relative Inform. Technology (IT)

olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25

standard and adapted CIELAB  
LAB\*LAB 76.06 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0

relative CIELAB lab\*

lab\*lab 0.75 0.0 0.0  
lab\*ich 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 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14









