

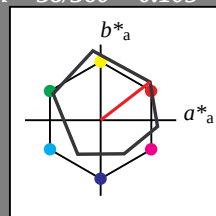
### Eingabe: Farbmétrisches Reflexions-System ORS18

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

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

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

Dreiecks-Helligkeit  $t^*$



### ORS18; adaptierte CIELAB-Daten

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

%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

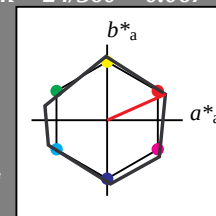
### Ausgabe: Farbmétrisches Reflexions-System NRS11

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

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

D65: Buntton R  
LCH\*Ma: 53 84 24  
olv\*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          |

%Umfang

$u^*_{rel} = 119$

%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*TCa  | 99.99 | 0.01 | -     |

relative CIELAB lab\*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | 0.5   |
| cmyn4* | 0.0 | 0.0 | 0.0 | 0.5   |

standard and adapted CIELAB

|          |       |      |     |
|----------|-------|------|-----|
| LAB*LAB  | 53.21 | 0.04 | 0.0 |
| LAB*LABa | 53.21 | 0.0  | 0.0 |
| LAB*TCa  | 50.0  | 0.01 | -   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.0 | 0.0 |
| lab*tch | 0.5 | 0.0 | -   |
| lab*nch | 0.5 | 0.0 | -   |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lrj | 0.5 | 0.0 | 0.0 |
| lab*tce | 0.5 | 0.0 | -   |
| lab*nce | 0.5 | 0.0 | -   |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |      |
|----------|-------|------|------|
| LAB*LAB  | 11.01 | 0.07 | 0.01 |
| LAB*LABa | 11.01 | 0.0  | 0.0  |
| LAB*TCa  | 0.01  | 0.01 | -    |

relative CIELAB lab\*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 0.5 | 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  | 74.3 | 38.55 | 17.16 |
| LAB*LABa | 74.3 | 38.52 | 17.16 |
| LAB*TCa  | 75.0 | 42.17 | 24.01 |

relative CIELAB lab\*

|         |      |       |       |
|---------|------|-------|-------|
| lab*lab | 0.75 | 0.457 | 0.203 |
| lab*tch | 0.75 | 0.5   | 0.067 |
| lab*nch | 0.0  | 0.5   | 0.067 |

relative Natural Colour (NC)

|         |      |     |        |
|---------|------|-----|--------|
| lab*lrj | 0.75 | 0.5 | -0.009 |
| lab*tce | 0.75 | 0.5 | 0.997  |
| lab*nce | 0.0  | 0.5 | 0.997  |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.5 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.5 | 0.5 | 0.5   |
| cmyn4* | 0.0 | 0.5 | 0.5 | 0.5   |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 32.1  | 38.58 | 17.17 |
| LAB*LABa | 32.1  | 38.52 | 17.16 |
| LAB*TCa  | 25.01 | 42.17 | 24.01 |

relative CIELAB lab\*

|         |      |       |       |
|---------|------|-------|-------|
| lab*lab | 0.25 | 0.457 | 0.203 |
| lab*tch | 0.25 | 0.5   | 0.067 |
| lab*nch | 0.5  | 0.5   | 0.067 |

relative Natural Colour (NC)

|         |      |     |        |
|---------|------|-----|--------|
| lab*lrj | 0.25 | 0.5 | -0.009 |
| lab*tce | 0.25 | 0.5 | 0.997  |
| lab*nce | 0.5  | 0.5 | 0.997  |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |      |       |       |
|----------|------|-------|-------|
| LAB*LAB  | 53.2 | 77.09 | 34.32 |
| LAB*LABa | 53.2 | 77.04 | 34.31 |
| LAB*TCa  | 50.0 | 84.34 | 24.01 |

relative CIELAB lab\*

|         |     |       |       |
|---------|-----|-------|-------|
| lab*lab | 0.5 | 0.913 | 0.407 |
| lab*tch | 0.5 | 1.0   | 0.067 |
| lab*nch | 0.0 | 1.0   | 0.067 |

relative Natural Colour (NC)

|         |     |     |        |
|---------|-----|-----|--------|
| lab*lrj | 0.5 | 1.0 | -0.019 |
| lab*tce | 0.5 | 1.0 | 0.997  |
| lab*nce | 0.0 | 1.0 | 0.997  |

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG02/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=0.0

BAM-Registrierung: 20060101-UG02/10L/L02G00NP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/UG02/ Form: 1/10, Serie: 1/1, Seite: 1  
Seitenhang 1

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (links)

3 stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.067 (rechts)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input: *cmv0\* setcmvcolor*

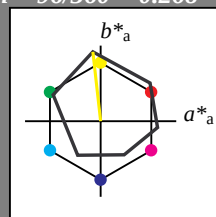
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

### Eingabe: Farbmétrisches 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  
olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

### ORS18; adaptierte CIELAB-Daten

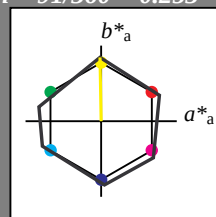
|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| OMa  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa  |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

### Ausgabe: Farbmétrisches 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  
olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

%Regularität

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

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

### 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          |

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 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

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

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 0.5 (1.0)  
cmyn3\* 0.0 0.0 0.5 (0.0)  
olvi4\* 1.0 1.0 0.5 1.0  
cmyn4\* 0.0 0.0 0.5 0.0  
standard and adapted CIELAB  
LAB\*LAB 74.3 -0.72 42.18  
LAB\*LABa 74.3 -0.75 42.18  
LAB\*TCHa 75.0 42.19 91.03

relative CIELAB lab\*  
lab\*lab 0.75 -0.008 0.5  
lab\*tch 0.75 0.5 0.253  
lab\*nch 0.0 0.5 0.253  
relative Natural Colour (NC)  
lab\*lrj 0.75 0.015 0.5  
lab\*tce 0.75 0.5 0.245  
lab\*nce 0.0 0.5 r98j

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.0 (1.0)  
cmyn3\* 0.5 0.5 1.0 (0.0)  
olvi4\* 1.0 1.0 0.5 0.5  
cmyn4\* 0.0 0.0 0.5 0.5  
standard and adapted CIELAB  
LAB\*LAB 32.1 -0.69 42.2  
LAB\*LABa 32.1 -0.75 42.18  
LAB\*TCHa 25.01 42.19 91.03

relative CIELAB lab\*  
lab\*lab 0.25 -0.008 0.5  
lab\*tch 0.25 0.5 0.253  
lab\*nch 0.5 0.5 0.253  
relative Natural Colour (NC)  
lab\*lrj 0.25 0.015 0.5  
lab\*tce 0.25 0.5 0.245  
lab\*nce 0.5 0.5 r98j

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 0.0 (1.0)  
cmyn3\* 0.0 0.0 1.0 (0.0)  
olvi4\* 1.0 1.0 0.0 1.0  
cmyn4\* 0.0 0.0 1.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 53.2 -1.46 84.37  
LAB\*LABa 53.2 -1.51 84.36  
LAB\*TCHa 50.0 84.37 91.03

relative CIELAB lab\*  
lab\*lab 0.5 -0.017 1.0  
lab\*tch 0.5 1.0 0.253  
lab\*nch 0.0 1.0 0.253  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.031 0.999  
lab\*tce 0.5 1.0 0.245  
lab\*nce 0.0 1.0 r98j

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG02/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=0.0

BAM-Registrierung: 20060101-UG02/10L/L02G01NP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/UG02/ Form: 2/10, Serie: 1/1, Seite: 2  
Satzanz hlung 2

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (links)

3 stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.253 (rechts)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input: `cmv0* setcmvcolor`

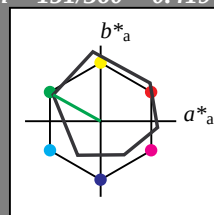
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

### Eingabe: Farbmimetrisches Reflexions-System ORS18

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

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

Dreiecks-Helligkeit  $t^*$



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| OMa                            | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa                            | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa                            | 50.9        | -62.79  | 34.95   | 71.87        | 151          |
| CMa                            | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa                            | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa                            | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa                            | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                            | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                           | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE                           | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE                           | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE                           | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

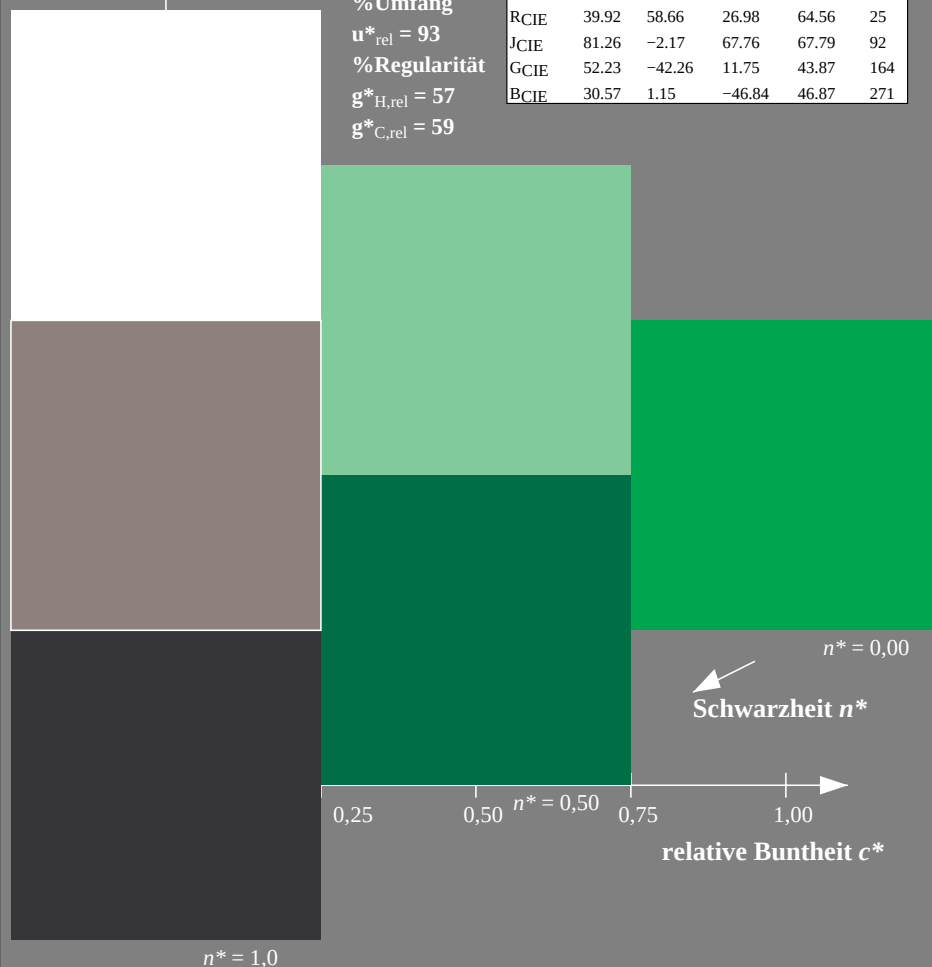
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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



$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

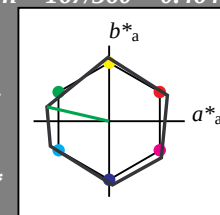
$n^* = 1,0$

### Ausgabe: Farbmimetrisches Reflexions-System NRS11

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

D65: Buntton G  
LCH\*Ma: 53 84 167  
olv\*Ma: 0.0 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          |

%Umfang

$u^*_{rel} = 119$

%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\*TCa 99.99 0.01 -  
relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.0 0.0  
LAB\*TCa 50.0 0.01 -  
relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.0 0.0  
LAB\*TCa 0.01 0.01 -  
relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 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 74.3 -41.1 9.49  
LAB\*LABa 74.3 -41.12 9.49  
LAB\*TCa 75.0 42.21 167.01  
relative CIELAB lab\*  
lab\*lab 0.75 -0.486 0.112  
lab\*tch 0.75 0.5 0.464  
lab\*nch 0.0 0.5 0.464  
relative Natural Colour (NC)  
lab\*lrj 0.75 -0.498 -0.033  
lab\*tce 0.75 0.5 0.511  
lab\*nce 0.0 0.5 g04b

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 0.5 0.5 1.0 (0.0)  
olvi4\* 0.5 1.0 0.5 0.5  
cmyn4\* 0.5 0.0 0.5 0.5  
standard and adapted CIELAB  
LAB\*LAB 32.1 -41.06 9.5  
LAB\*LABa 32.1 -41.12 9.49  
LAB\*TCa 25.01 42.21 167.01  
relative CIELAB lab\*  
lab\*lab 0.25 -0.486 0.112  
lab\*tch 0.25 0.5 0.464  
lab\*nch 0.5 0.5 0.464  
relative Natural Colour (NC)  
lab\*lrj 0.25 -0.498 -0.033  
lab\*tce 0.25 0.5 0.511  
lab\*nce 0.5 0.5 g04b

relative Inform. Technology (IT)  
olvi3\* 0.0 1.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.0 1.0 0.0 1.0  
cmyn4\* 1.0 0.0 1.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 53.2 -82.21 18.98  
LAB\*LABa 53.2 -82.25 18.97  
LAB\*TCa 50.0 84.42 167.01  
relative CIELAB lab\*  
lab\*lab 0.5 -0.973 0.225  
lab\*tch 0.5 1.0 0.464  
lab\*nch 0.0 1.0 0.464  
relative Natural Colour (NC)  
lab\*lrj 0.5 -0.996 -0.067  
lab\*tce 0.5 1.0 0.511  
lab\*nce 0.0 1.0 g04b

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

$n^* = 1,0$

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (links)

3 stufige Reihen für konstanten CIELAB Buntton 167/360 = 0.464 (rechts)

BAM-Prüfvorlage UG02; Farbmimetrische Systeme ORS18 & NRS11input: *cmly0\* setcmlycolor*

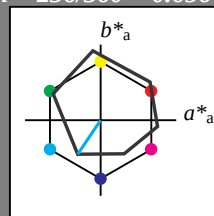
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

### Eingabe: Farbmétrisches Reflexions-System ORS18

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

D65: Buntton C  
LCH\*Ma: 59 54 236  
olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

### ORS18; adaptierte CIELAB-Daten

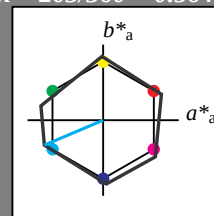
|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| OMa  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa  |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

### Ausgabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 203/360 = 0.564$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton G50B  
LCH\*Ma: 53 84 203  
olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

%Regularität

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

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

### 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          |

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\*TCa 99.99 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.0 0.0  
LAB\*TCa 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

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

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 1.0 1.0 (1.0)  
cmyn3\* 0.5 0.0 0.0 (0.0)  
olvi4\* 0.5 1.0 1.0 1.0  
cmyn4\* 0.5 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 74.3 -38.82 -16.48  
LAB\*LABa 74.3 -38.85 -16.48  
LAB\*TCa 75.0 42.21 203.0

relative CIELAB lab\*  
lab\*lab 0.75 -0.459 -0.194  
lab\*tch 0.75 0.5 0.564  
lab\*nch 0.0 0.5 0.564  
relative Natural Colour (NC)  
lab\*lrj 0.75 -0.416 -0.275  
lab\*tce 0.75 0.5 0.593  
lab\*nce 0.0 0.5 g37b

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.5 (1.0)  
cmyn3\* 1.0 0.5 0.5 (0.0)  
olvi4\* 0.5 1.0 1.0 0.5  
cmyn4\* 0.5 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 32.1 -38.79 -16.46  
LAB\*LABa 32.1 -38.85 -16.48  
LAB\*TCa 25.01 42.21 203.0

relative CIELAB lab\*  
lab\*lab 0.25 -0.459 -0.194  
lab\*tch 0.25 0.5 0.564  
lab\*nch 0.5 0.5 0.564  
relative Natural Colour (NC)  
lab\*lrj 0.25 -0.416 -0.275  
lab\*tce 0.25 0.5 0.593  
lab\*nce 0.5 0.5 g37b

relative Inform. Technology (IT)  
olvi3\* 0.0 1.0 1.0 (1.0)  
cmyn3\* 1.0 0.0 0.0 (0.0)  
olvi4\* 0.0 1.0 1.0 1.0  
cmyn4\* 1.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 53.2 -77.67 -32.96  
LAB\*LABa 53.2 -77.71 -32.97  
LAB\*TCa 50.0 84.43 202.99

relative CIELAB lab\*  
lab\*lab 0.5 -0.919 -0.39  
lab\*tch 0.5 1.0 0.564  
lab\*nch 0.0 1.0 0.564  
relative Natural Colour (NC)  
lab\*lrj 0.5 -0.833 -0.551  
lab\*tce 0.5 1.0 0.593  
lab\*nce 0.0 1.0 g37b

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

Schwarzheit  $n^*$

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

Schwarzheit  $n^*$

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links)

3 stufige Reihen für konstanten CIELAB Buntton 203/360 = 0.564 (rechts)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input: *cmv0\* setcmvcolor*

D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

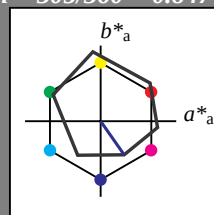


### Eingabe: Farbmétrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 305/360 = 0.847$   
 $lab^*ch$  und  $lab^*nch$

D65: Buntton V  
LCH\*Ma: 26 54 305  
olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| OMa                            | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa                            | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa                            | 50.9        | -62.79  | 34.95   | 71.87        | 151          |
| CMa                            | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa                            | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa                            | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa                            | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                            | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                           | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE                           | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE                           | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE                           | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

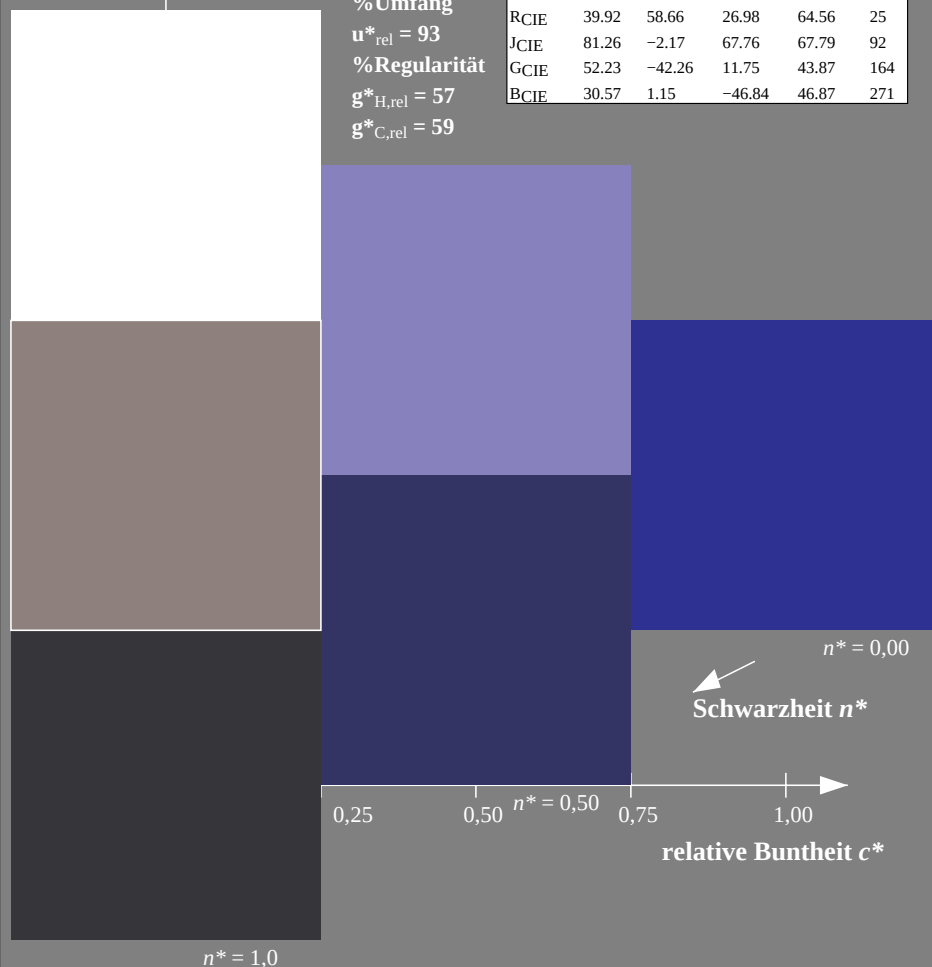
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

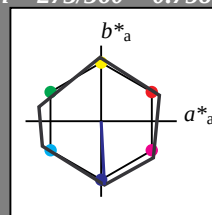


### Ausgabe: Farbmétrisches Reflexions-System NRS11

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

D65: Buntton B  
LCH\*Ma: 53 84 273  
olv\*Ma: 0.0 0.0 1.0

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          |

%Umfang

$u^*_{rel} = 119$

%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*TCa                          | 99.99 | 0.01 | -     |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 1.0   | 0.0  | -     |       |  |
| lab*nch                          | 0.0   | 0.0  | -     |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*lrj                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tce                          | 1.0   | 0.0  | -     |       |  |
| lab*nce                          | 0.0   | 0.0  | -     |       |  |

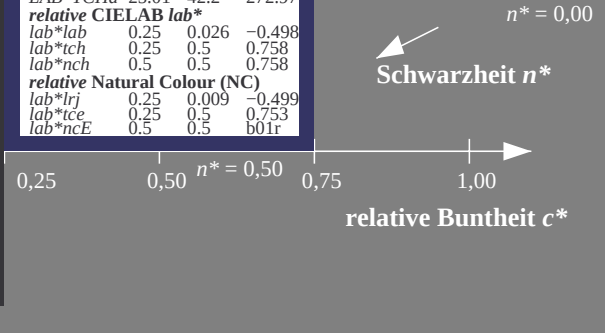
| relative Inform. Technology (IT) |       |      |     |       |  |
|----------------------------------|-------|------|-----|-------|--|
| olvi3*                           | 0.5   | 0.5  | 0.5 | (1.0) |  |
| cmyn3*                           | 0.5   | 0.5  | 0.5 | (0.0) |  |
| olvi4*                           | 1.0   | 1.0  | 1.0 | 0.5   |  |
| cmyn4*                           | 0.0   | 0.0  | 0.0 | 0.5   |  |
| standard and adapted CIELAB      |       |      |     |       |  |
| LAB*LAB                          | 53.21 | 0.04 | 0.0 |       |  |
| LAB*LABa                         | 53.21 | 0.0  | 0.0 |       |  |
| LAB*TCa                          | 50.0  | 0.01 | -   |       |  |
| relative CIELAB lab*             |       |      |     |       |  |
| lab*lab                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*tch                          | 0.5   | 0.0  | -   |       |  |
| lab*nch                          | 0.5   | 0.0  | -   |       |  |
| relative Natural Colour (NC)     |       |      |     |       |  |
| lab*lrj                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*tce                          | 0.5   | 0.0  | -   |       |  |
| lab*nce                          | 0.5   | 0.0  | -   |       |  |

| relative Inform. Technology (IT) |       |      |      |       |  |
|----------------------------------|-------|------|------|-------|--|
| olvi3*                           | 0.0   | 0.0  | 0.0  | (1.0) |  |
| cmyn3*                           | 1.0   | 1.0  | 1.0  | (0.0) |  |
| olvi4*                           | 1.0   | 1.0  | 1.0  | 0.0   |  |
| cmyn4*                           | 0.0   | 0.0  | 0.0  | 1.0   |  |
| standard and adapted CIELAB      |       |      |      |       |  |
| LAB*LAB                          | 11.01 | 0.07 | 0.01 |       |  |
| LAB*LABa                         | 11.01 | 0.0  | 0.0  |       |  |
| LAB*TCa                          | 0.01  | 0.01 | -    |       |  |
| relative CIELAB lab*             |       |      |      |       |  |
| lab*lab                          | 0.0   | 0.0  | 0.0  |       |  |
| lab*tch                          | 0.0   | 0.0  | -    |       |  |
| lab*nch                          | 1.0   | 0.0  | -    |       |  |
| relative Natural Colour (NC)     |       |      |      |       |  |
| lab*lrj                          | 0.0   | 0.0  | 0.0  |       |  |
| lab*tce                          | 0.0   | 0.0  | -    |       |  |
| lab*nce                          | 1.0   | 0.0  | -    |       |  |

| relative Inform. Technology (IT) |      |       |        |       |  |
|----------------------------------|------|-------|--------|-------|--|
| olvi3*                           | 0.5  | 0.5   | 1.0    | (1.0) |  |
| cmyn3*                           | 0.5  | 0.5   | 0.0    | (0.0) |  |
| olvi4*                           | 0.5  | 0.5   | 1.0    | 1.0   |  |
| cmyn4*                           | 0.5  | 0.5   | 0.0    | 0.0   |  |
| standard and adapted CIELAB      |      |       |        |       |  |
| LAB*LAB                          | 74.3 | 2.21  | -42.13 |       |  |
| LAB*LABa                         | 74.3 | 2.19  | -42.13 |       |  |
| LAB*TCa                          | 75.0 | 42.2  | 272.97 |       |  |
| relative CIELAB lab*             |      |       |        |       |  |
| lab*lab                          | 0.75 | 0.026 | -0.498 |       |  |
| lab*tch                          | 0.75 | 0.5   | 0.758  |       |  |
| lab*nch                          | 0.0  | 0.5   | 0.758  |       |  |
| relative Natural Colour (NC)     |      |       |        |       |  |
| lab*lrj                          | 0.75 | 0.009 | -0.499 |       |  |
| lab*tce                          | 0.75 | 0.5   | 0.753  |       |  |
| lab*nce                          | 0.0  | 0.5   | b01r   |       |  |

| relative Inform. Technology (IT) |       |       |        |       |  |
|----------------------------------|-------|-------|--------|-------|--|
| olvi3*                           | 0.0   | 0.0   | 0.5    | (1.0) |  |
| cmyn3*                           | 1.0   | 1.0   | 0.5    | (0.0) |  |
| olvi4*                           | 0.5   | 0.5   | 1.0    | 0.5   |  |
| cmyn4*                           | 0.5   | 0.5   | 0.0    | 0.5   |  |
| standard and adapted CIELAB      |       |       |        |       |  |
| LAB*LAB                          | 32.1  | 2.25  | -42.11 |       |  |
| LAB*LABa                         | 32.1  | 2.19  | -42.13 |       |  |
| LAB*TCa                          | 25.01 | 42.2  | 272.97 |       |  |
| relative CIELAB lab*             |       |       |        |       |  |
| lab*lab                          | 0.25  | 0.026 | -0.498 |       |  |
| lab*tch                          | 0.25  | 0.5   | 0.758  |       |  |
| lab*nch                          | 0.5   | 0.5   | 0.758  |       |  |
| relative Natural Colour (NC)     |       |       |        |       |  |
| lab*lrj                          | 0.25  | 0.009 | -0.499 |       |  |
| lab*tce                          | 0.25  | 0.5   | 0.753  |       |  |
| lab*nce                          | 0.5   | 0.5   | b01r   |       |  |

| relative Inform. Technology (IT) |      |       |        |       |  |
|----------------------------------|------|-------|--------|-------|--|
| olvi3*                           | 0.0  | 0.0   | 1.0    | (1.0) |  |
| cmyn3*                           | 1.0  | 1.0   | 0.0    | (0.0) |  |
| olvi4*                           | 0.0  | 0.0   | 1.0    | 1.0   |  |
| cmyn4*                           | 1.0  | 1.0   | 0.0    | 0.0   |  |
| standard and adapted CIELAB      |      |       |        |       |  |
| LAB*LAB                          | 53.2 | 4.42  | -84.26 |       |  |
| LAB*LABa                         | 53.2 | 4.37  | -84.27 |       |  |
| LAB*TCa                          | 50.0 | 84.39 | 272.97 |       |  |
| relative CIELAB lab*             |      |       |        |       |  |
| lab*lab                          | 0.5  | 0.052 | -0.997 |       |  |
| lab*tch                          | 0.5  | 1.0   | 0.758  |       |  |
| lab*nch                          | 0.0  | 1.0   | 0.758  |       |  |
| relative Natural Colour (NC)     |      |       |        |       |  |
| lab*lrj                          | 0.5  | 0.018 | -0.999 |       |  |
| lab*tce                          | 0.5  | 1.0   | 0.753  |       |  |
| lab*nce                          | 0.0  | 1.0   | b01r   |       |  |



UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (links)

3 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.758 (rechts)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input: *cmv0\* setcmvcolor*

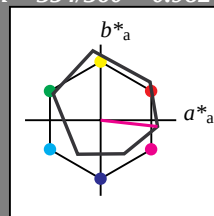
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

### Eingabe: Farbmétrisches Reflexions-System ORS18

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

D65: Buntton M  
LCH\*Ma: 48 76 354  
olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



| ORS18; adaptierte CIELAB-Daten | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------------------|-------------|---------|---------|--------------|--------------|
| OMa                            | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa                            | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa                            | 50.9        | -62.79  | 34.95   | 71.87        | 151          |
| CMa                            | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa                            | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa                            | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa                            | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                            | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                           | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE                           | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE                           | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE                           | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

%Umfang

$u^*_{rel} = 93$

%Regularität

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

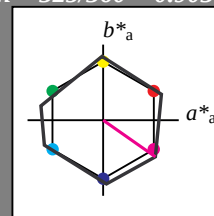
$g^*_{C,rel} = 59$

### Ausgabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 325/360 = 0.903$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton B50R  
LCH\*Ma: 53 84 325  
olv\*Ma: 1.0 0.0 1.0

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          |

%Umfang

$u^*_{rel} = 119$

%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*TBa                          | 99.99 | 0.01 | -     |       |
| relative CIELAB lab*             |       |      |       |       |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |
| lab*tch                          | 1.0   | 0.0  | -     |       |
| lab*nch                          | 0.0   | 0.0  | -     |       |
| relative Natural Colour (NC)     |       |      |       |       |
| lab*lrj                          | 1.0   | 0.0  | 0.0   |       |
| lab*tce                          | 1.0   | 0.0  | -     |       |
| lab*nce                          | 0.0   | 0.0  | -     |       |

| relative Inform. Technology (IT) |      |       |        |       |
|----------------------------------|------|-------|--------|-------|
| olvi3*                           | 1.0  | 0.5   | 1.0    | (1.0) |
| cmyn3*                           | 0.0  | 0.5   | 0.0    | (0.0) |
| olvi4*                           | 1.0  | 0.5   | 1.0    | 1.0   |
| cmyn4*                           | 0.0  | 0.5   | 0.0    | 0.0   |
| standard and adapted CIELAB      |      |       |        |       |
| LAB*LAB                          | 74.3 | 34.57 | -24.19 |       |
| LAB*LABa                         | 74.3 | 34.54 | -24.2  |       |
| LAB*TBa                          | 75.0 | 42.18 | 324.98 |       |
| relative CIELAB lab*             |      |       |        |       |
| lab*lab                          | 0.75 | 0.409 | -0.286 |       |
| lab*tch                          | 0.75 | 0.5   | 0.903  |       |
| lab*nch                          | 0.0  | 0.5   | 0.903  |       |
| relative Natural Colour (NC)     |      |       |        |       |
| lab*lrj                          | 0.75 | 0.336 | -0.37  |       |
| lab*tce                          | 0.75 | 0.5   | 0.867  |       |
| lab*nce                          | 0.0  | 0.5   | b46r   |       |

| 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                          | 53.21 | 0.04 | 0.0 |       |
| LAB*LABa                         | 53.21 | 0.0  | 0.0 |       |
| LAB*TBa                          | 50.0  | 0.01 | -   |       |
| relative CIELAB lab*             |       |      |     |       |
| lab*lab                          | 0.5   | 0.0  | 0.0 |       |
| lab*tch                          | 0.5   | 0.0  | -   |       |
| lab*nch                          | 0.5   | 0.0  | -   |       |
| relative Natural Colour (NC)     |       |      |     |       |
| lab*lrj                          | 0.5   | 0.0  | 0.0 |       |
| lab*tce                          | 0.5   | 0.0  | -   |       |
| lab*nce                          | 0.5   | 0.0  | -   |       |

| relative Inform. Technology (IT) |       |       |        |       |
|----------------------------------|-------|-------|--------|-------|
| olvi3*                           | 0.5   | 0.0   | 0.5    | (1.0) |
| cmyn3*                           | 0.5   | 1.0   | 0.5    | (0.0) |
| olvi4*                           | 1.0   | 0.5   | 1.0    | 0.5   |
| cmyn4*                           | 0.0   | 0.5   | 0.0    | 0.5   |
| standard and adapted CIELAB      |       |       |        |       |
| LAB*LAB                          | 32.1  | 34.6  | -24.18 |       |
| LAB*LABa                         | 32.1  | 34.54 | -24.2  |       |
| LAB*TBa                          | 25.01 | 42.18 | 324.98 |       |
| relative CIELAB lab*             |       |       |        |       |
| lab*lab                          | 0.25  | 0.409 | -0.286 |       |
| lab*tch                          | 0.25  | 0.5   | 0.903  |       |
| lab*nch                          | 0.5   | 0.5   | 0.903  |       |
| relative Natural Colour (NC)     |       |       |        |       |
| lab*lrj                          | 0.25  | 0.336 | -0.37  |       |
| lab*tce                          | 0.25  | 0.5   | 0.867  |       |
| lab*nce                          | 0.5   | 0.5   | b46r   |       |

| relative Inform. Technology (IT) |      |       |        |       |
|----------------------------------|------|-------|--------|-------|
| olvi3*                           | 1.0  | 0.0   | 1.0    | (1.0) |
| cmyn3*                           | 0.0  | 1.0   | 0.0    | (0.0) |
| olvi4*                           | 1.0  | 0.0   | 1.0    | 1.0   |
| cmyn4*                           | 0.0  | 1.0   | 0.0    | 0.0   |
| standard and adapted CIELAB      |      |       |        |       |
| LAB*LAB                          | 53.2 | 69.12 | -48.39 |       |
| LAB*LABa                         | 53.2 | 69.08 | -48.4  |       |
| LAB*TBa                          | 50.0 | 84.35 | 324.98 |       |
| relative CIELAB lab*             |      |       |        |       |
| lab*lab                          | 0.5  | 0.819 | -0.573 |       |
| lab*tch                          | 0.5  | 1.0   | 0.903  |       |
| lab*nch                          | 0.0  | 1.0   | 0.903  |       |
| relative Natural Colour (NC)     |      |       |        |       |
| lab*lrj                          | 0.5  | 0.671 | -0.74  |       |
| lab*tce                          | 0.5  | 1.0   | 0.867  |       |
| lab*nce                          | 0.0  | 1.0   | b46r   |       |

relative Buntheit  $c^*$

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

Schwarzheit  $n^*$

$n^* = 0,00$

$n^* = 1,0$

relative Buntheit  $c^*$

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

Schwarzheit  $n^*$

$n^* = 0,00$

$n^* = 1,0$

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (links)

3 stufige Reihen für konstanten CIELAB Buntton 325/360 = 0.903 (rechts)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input:  $cmv0^* setcmykcolor$

D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 25/360 = 0.069$

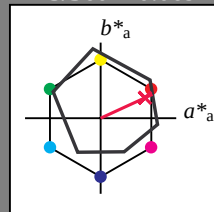
$lab^*ch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 48 75 25

olv\*Ma: 1.0 0.0 0.32

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

### ORS18; adaptierte CIELAB-Daten

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

### Ausgabe: Farbmimetrisches Reflexions-System NRS11

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

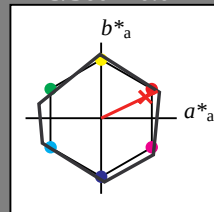
$lab^*ch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 53 83 25

olv\*Ma: 1.0 0.03 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

%Regularität

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

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

### 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          |

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\*TCa 99.99 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.0 0.0  
LAB\*TCa 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -

relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*LABa 11.01 0.0 0.0  
LAB\*TCa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 1.0 0.514 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

standard and adapted CIELAB  
LAB\*LAB 74.3 37.46 17.85  
LAB\*LABa 74.3 37.44 17.85  
LAB\*TCa 75.0 41.47 25.49

relative CIELAB lab\*  
lab\*lab 0.75 0.451 0.215  
lab\*tch 0.75 0.5 0.071  
lab\*nch 0.0 0.5 0.071

relative Natural Colour (NC)  
lab\*lrj 0.75 0.5 0.0  
lab\*tce 0.75 0.5 0.0  
lab\*nce 0.0 0.5 r00j

relative Inform. Technology (IT)  
olvi3\* 0.5 0.014 0.0 (1.0)  
cmyn3\* 0.5 0.986 1.0 (0.0)  
olvi4\* 1.0 0.514 0.5 0.5  
cmyn4\* 0.0 0.486 0.5 0.5

standard and adapted CIELAB  
LAB\*LAB 32.1 37.51 17.86  
LAB\*LABa 32.1 37.45 17.84  
LAB\*TCa 25.01 41.48 25.48

relative CIELAB lab\*  
lab\*lab 0.25 0.451 0.215  
lab\*tch 0.25 0.5 0.071  
lab\*nch 0.5 0.5 0.071

relative Natural Colour (NC)  
lab\*lrj 0.25 0.5 0.0  
lab\*tce 0.25 0.5 1.0  
lab\*nce 0.5 0.5 b99r

relative Inform. Technology (IT)  
olvi3\* 1.0 0.028 0.0 (1.0)  
cmyn3\* 0.0 0.972 1.0 (0.0)  
olvi4\* 1.0 0.028 0.0 1.0  
cmyn4\* 0.0 0.972 1.0 0.0

standard and adapted CIELAB  
LAB\*LAB 53.2 74.93 35.7  
LAB\*LABa 53.2 74.88 35.69  
LAB\*TCa 50.0 82.95 25.48

relative CIELAB lab\*  
lab\*lab 0.5 0.903 0.43  
lab\*tch 0.5 1.0 0.071  
lab\*nch 0.0 1.0 0.071

relative Natural Colour (NC)  
lab\*lrj 0.5 1.0 0.0  
lab\*tce 0.5 1.0 1.0  
lab\*nce 0.0 1.0 b99r

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG02/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=0.0

BAM-Registrierung: 20060101-UG02/10L/L02G06NP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/UG02/ Form: 7/10, Serie: 1/1, Seite: 7  
Satzanzahlung 7

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)

3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (rechts)

BAM-Prüfvorlage UG02; Farbmimetrik-Systeme ORS18 & NRS11input: *cmv0\* setcmvcolor*

D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

### Eingabe: Farbmétrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 92/360 = 0.255$

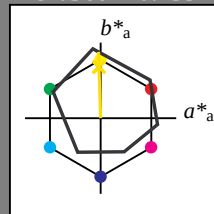
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 86 88 92

olv\*Ma: 1.0 0.9 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

### ORS18; adaptierte CIELAB-Daten

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

### Ausgabe: Farbmétrisches Reflexions-System NRS11

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

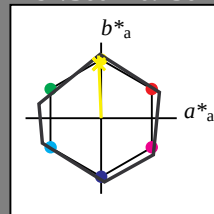
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 53 83 92

olv\*Ma: 0.98 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

%Regularität

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

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

### 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          |

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 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

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

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.989 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\*TCHa 75.0 41.47 92.32

relative CIELAB lab\*  
lab\*lab 0.75 -0.019 0.499  
lab\*tch 0.75 0.5 0.256  
lab\*nch 0.0 0.5 0.256  
relative Natural Colour (NC)  
lab\*lrj 0.75 0.0 0.5  
lab\*tce 0.75 0.5 0.25  
lab\*nce 0.0 0.5 r99j

relative Inform. Technology (IT)  
olvi3\* 0.489 0.5 0.0 (1.0)  
cmyn3\* 0.511 0.5 1.0 (0.0)  
olvi4\* 0.989 1.0 0.5 0.5  
cmyn4\* 0.011 0.0 0.5 0.5  
standard and adapted CIELAB  
LAB\*LAB 32.1 -1.62 41.45  
LAB\*LABa 32.1 -1.68 41.43  
LAB\*TCHa 25.01 41.46 92.33

relative CIELAB lab\*  
lab\*lab 0.25 -0.019 0.499  
lab\*tch 0.25 0.5 0.256  
lab\*nch 0.5 0.5 0.256  
relative Natural Colour (NC)  
lab\*lrj 0.25 0.0 0.5  
lab\*tce 0.25 0.5 0.25  
lab\*nce 0.5 0.5 r00g

relative Inform. Technology (IT)  
olvi3\* 0.977 1.0 0.0 (1.0)  
cmyn3\* 0.023 0.0 1.0 (0.0)  
olvi4\* 0.977 1.0 0.0 1.0  
cmyn4\* 0.023 0.0 1.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 53.2 -3.31 82.87  
LAB\*LABa 53.2 -3.35 82.86  
LAB\*TCHa 50.0 82.93 92.32

relative CIELAB lab\*  
lab\*lab 0.5 -0.04 0.999  
lab\*tch 0.5 1.0 0.256  
lab\*nch 0.0 1.0 0.256  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 1.0  
lab\*tce 0.5 1.0 0.25  
lab\*nce 0.0 1.0 r99j

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (links)

3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (rechts)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input:  $cmv0^* setcmykcolor$

D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

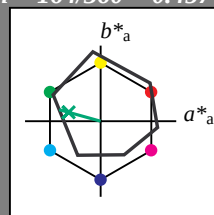


### Eingabe: Farbmétrisches Reflexions-System ORS18

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

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

Dreiecks-Helligkeit  $t^*$



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| OMa                            | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa                            | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa                            | 50.9        | -62.79  | 34.95   | 71.87        | 151          |
| CMa                            | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa                            | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa                            | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa                            | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                            | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                           | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE                           | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE                           | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE                           | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

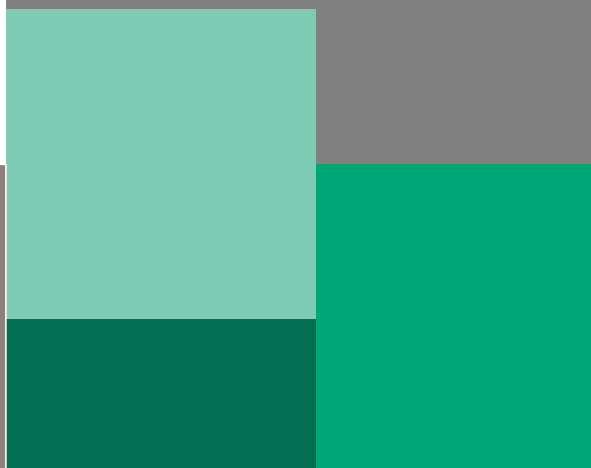
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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



$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

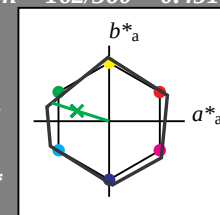
$n^* = 1,0$

### Ausgabe: Farbmétrisches Reflexions-System NRS11

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

D65: Buntton G  
LCH\*Ma: 53 80 162  
olv\*Ma: 0.08 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          |

%Umfang

$u^*_{rel} = 119$

%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*TCa                          | 99.99 | 0.01 | -     |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 1.0   | 0.0  | -     |       |  |
| lab*nch                          | 0.0   | 0.0  | -     |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*lrj                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tce                          | 1.0   | 0.0  | -     |       |  |
| lab*nce                          | 0.0   | 0.0  | -     |       |  |

| relative Inform. Technology (IT) |       |      |     |       |  |
|----------------------------------|-------|------|-----|-------|--|
| olvi3*                           | 0.5   | 0.5  | 0.5 | (1.0) |  |
| cmyn3*                           | 0.5   | 0.5  | 0.5 | (0.0) |  |
| olvi4*                           | 1.0   | 1.0  | 1.0 | 0.5   |  |
| cmyn4*                           | 0.0   | 0.0  | 0.0 | 0.5   |  |
| standard and adapted CIELAB      |       |      |     |       |  |
| LAB*LAB                          | 53.21 | 0.04 | 0.0 |       |  |
| LAB*LABa                         | 53.21 | 0.0  | 0.0 |       |  |
| LAB*TCa                          | 50.0  | 0.01 | -   |       |  |
| relative CIELAB lab*             |       |      |     |       |  |
| lab*lab                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*tch                          | 0.5   | 0.0  | -   |       |  |
| lab*nch                          | 0.5   | 0.0  | -   |       |  |
| relative Natural Colour (NC)     |       |      |     |       |  |
| lab*lrj                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*tce                          | 0.5   | 0.0  | -   |       |  |
| lab*nce                          | 0.5   | 0.0  | -   |       |  |

| relative Inform. Technology (IT) |       |      |      |       |  |
|----------------------------------|-------|------|------|-------|--|
| olvi3*                           | 0.0   | 0.0  | 0.0  | (1.0) |  |
| cmyn3*                           | 1.0   | 1.0  | 1.0  | (0.0) |  |
| olvi4*                           | 1.0   | 1.0  | 1.0  | 0.0   |  |
| cmyn4*                           | 0.0   | 0.0  | 0.0  | 1.0   |  |
| standard and adapted CIELAB      |       |      |      |       |  |
| LAB*LAB                          | 11.01 | 0.07 | 0.01 |       |  |
| LAB*LABa                         | 11.01 | 0.0  | 0.0  |       |  |
| LAB*TCa                          | 0.01  | 0.01 | -    |       |  |
| relative CIELAB lab*             |       |      |      |       |  |
| lab*lab                          | 0.0   | 0.0  | 0.0  |       |  |
| lab*tch                          | 0.0   | 0.0  | -    |       |  |
| lab*nch                          | 1.0   | 0.0  | -    |       |  |
| relative Natural Colour (NC)     |       |      |      |       |  |
| lab*lrj                          | 0.0   | 0.0  | 0.0  |       |  |
| lab*tce                          | 0.0   | 0.0  | -    |       |  |
| lab*nce                          | 1.0   | 0.0  | -    |       |  |

| relative Inform. Technology (IT) |      |        |        |       |  |
|----------------------------------|------|--------|--------|-------|--|
| olvi3*                           | 0.54 | 1.0    | 0.5    | (1.0) |  |
| cmyn3*                           | 0.46 | 0.0    | 0.5    | (0.0) |  |
| olvi4*                           | 0.54 | 1.0    | 0.5    | 1.0   |  |
| cmyn4*                           | 0.46 | 0.0    | 0.5    | 0.0   |  |
| standard and adapted CIELAB      |      |        |        |       |  |
| LAB*LAB                          | 74.3 | -37.84 | 12.13  |       |  |
| LAB*LABa                         | 74.3 | -37.87 | 12.12  |       |  |
| LAB*TCa                          | 75.0 | 39.77  | 162.25 |       |  |
| relative CIELAB lab*             |      |        |        |       |  |
| lab*lab                          | 0.75 | -0.475 | 0.152  |       |  |
| lab*tch                          | 0.75 | 0.5    | 0.451  |       |  |
| lab*nch                          | 0.0  | 0.5    | 0.451  |       |  |
| relative Natural Colour (NC)     |      |        |        |       |  |
| lab*lrj                          | 0.75 | -0.499 | 0.0    |       |  |
| lab*tce                          | 0.75 | 0.5    | 0.5    |       |  |
| lab*nce                          | 0.0  | 0.5    | 0.99g  |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.04  | 0.5    | 0.0    | (1.0) |  |
| cmyn3*                           | 0.96  | 0.5    | 1.0    | (0.0) |  |
| olvi4*                           | 0.54  | 1.0    | 0.5    | 0.5   |  |
| cmyn4*                           | 0.46  | 0.0    | 0.5    | 0.5   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 32.1  | -37.81 | 12.13  |       |  |
| LAB*LABa                         | 32.1  | -37.87 | 12.12  |       |  |
| LAB*TCa                          | 25.01 | 39.77  | 162.27 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.25  | -0.475 | 0.152  |       |  |
| lab*tch                          | 0.25  | 0.5    | 0.451  |       |  |
| lab*nch                          | 0.5   | 0.5    | 0.451  |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.25  | -0.499 | 0.0    |       |  |
| lab*tce                          | 0.25  | 0.5    | 0.5    |       |  |
| lab*nce                          | 0.5   | 0.5    | g00b   |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.081 | 1.0    | 0.0    | (1.0) |  |
| cmyn3*                           | 0.919 | 0.0    | 1.0    | (0.0) |  |
| olvi4*                           | 0.081 | 1.0    | 0.0    | 1.0   |  |
| cmyn4*                           | 0.919 | 0.0    | 1.0    | 0.0   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 53.2  | -75.71 | 24.25  |       |  |
| LAB*LABa                         | 53.2  | -75.75 | 24.24  |       |  |
| LAB*TCa                          | 50.0  | 79.54  | 162.26 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.5   | -0.951 | 0.305  |       |  |
| lab*tch                          | 0.5   | 1.0    | 0.451  |       |  |
| lab*nch                          | 0.0   | 1.0    | 0.451  |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.5   | -0.999 | 0.0    |       |  |
| lab*tce                          | 0.5   | 1.0    | 0.5    |       |  |
| lab*nce                          | 0.0   | 1.0    | g00b   |       |  |

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

$n^* = 1,0$

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (links)

3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (rechts)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input: *cmv0\* setcmvcolor*

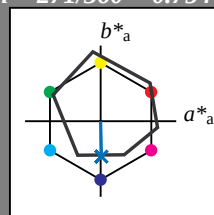
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

### Eingabe: Farbmétrisches Reflexions-System ORS18

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

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

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

#### ORS18; adaptierte CIELAB-Daten

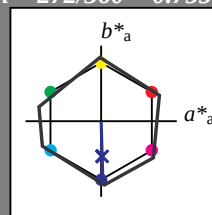
|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| OMa  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa  |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

### Ausgabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 272/360 = 0.755$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton B  
LCH\*Ma: 53 83 272  
olv\*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 119$

%Regularität

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

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

#### 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          |

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 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*LABa 53.21 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

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

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.512 1.0 (1.0)  
cmyn3\* 0.5 0.488 0.0 (0.0)  
olvi4\* 0.5 0.512 1.0 1.0  
cmyn4\* 0.5 0.488 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 74.3 1.23 -41.51  
LAB\*LABa 74.3 1.2 -41.52  
LAB\*TCHa 75.0 41.54 271.66

relative CIELAB lab\*  
lab\*lab 0.75 0.014 -0.499  
lab\*tch 0.75 0.5 0.755  
lab\*nch 0.0 0.5 0.755  
relative Natural Colour (NC)  
lab\*lrj 0.75 0.0 -0.499  
lab\*tce 0.75 0.5 0.75  
lab\*nce 0.0 0.5 g99b

relative Inform. Technology (IT)  
olvi3\* 0.0 0.012 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 1.27 -41.5  
LAB\*LABa 32.1 1.21 -41.52  
LAB\*TCHa 25.01 41.55 271.67

relative CIELAB lab\*  
lab\*lab 0.25 0.015 -0.499  
lab\*tch 0.25 0.5 0.755  
lab\*nch 0.5 0.5 0.755  
relative Natural Colour (NC)  
lab\*lrj 0.25 0.0 -0.499  
lab\*tce 0.25 0.5 0.75  
lab\*nce 0.5 0.5 b00r

relative Inform. Technology (IT)  
olvi3\* 0.0 0.024 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 2.46 -83.04  
LAB\*LABa 53.2 2.42 -83.05  
LAB\*TCHa 50.0 83.09 271.67

relative CIELAB lab\*  
lab\*lab 0.5 0.029 -0.998  
lab\*tch 0.5 1.0 0.755  
lab\*nch 0.0 1.0 0.755  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 -0.999  
lab\*tce 0.5 1.0 0.75  
lab\*nce 0.0 1.0 b00r

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0.00$

$n^* = 0.50$

$n^* = 1.0$

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0.00$

$n^* = 0.50$

$n^* = 1.0$

3 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (rechts)

UG020-7, 3 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (links)

BAM-Prüfvorlage UG02; Farbmétrik-Systeme ORS18 & NRS11input:  $cmv0^* setcmykcolor$

D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*