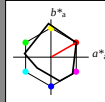


# Eingabe: Farbmetrisches Reflexions-System MRS18

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

D65: Buntton R  
LCH\*Ma: 50 77 30  
olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 91$

%Regulartät

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

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

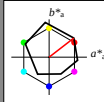
| MRS18; adaptierte CIELAB-Daten |         |         |              |              |     |
|--------------------------------|---------|---------|--------------|--------------|-----|
| $L^* = L^*_a$                  | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |     |
| RMa                            | 49.63   | 66.96   | 38.37        | 77.18        | 30  |
| YMa                            | 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 |

# Ausgabe: Farbmetrisches Reflexions-System ORS18

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

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

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 93$

%Regulartät

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

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

| 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  |
| GMa                            | 50.9    | -62.79  | 34.95        | 71.87        | 151 |
| VMa                            | 58.62   | -30.35  | -45.01       | 54.3         | 236 |
| WMa                            | 25.71   | 31.11   | -44.42       | 54.24        | 305 |
| NMa                            | 48.13   | 75.27   | -8.35        | 75.73        | 354 |
| WMa                            | 18.01   | 0.0     | 0.0          | 0.0          | 0   |
| RCie                           | 39.92   | 58.66   | 26.98        | 64.56        | 25  |
| JCie                           | 81.26   | -2.17   | 67.76        | 67.79        | 92  |
| GCie                           | 52.23   | -42.26  | 11.75        | 43.87        | 164 |
| BCie                           | 30.57   | 1.15    | -46.84       | 46.87        | 271 |

| relative Inform. Technology (IT) |       |       |      |       |  |
|----------------------------------|-------|-------|------|-------|--|
| olvi3*                           | 1.0   | 1.0   | 1.0  | (1.0) |  |
| cmyn3*                           | 0.0   | 0.0   | 0.0  | (0.0) |  |
| olvi4*                           | 1.0   | 1.0   | 1.0  | 1.0   |  |
| cmyn4*                           | 0.0   | 0.0   | 0.0  | 0.0   |  |
| standard and adapted CIELAB      |       |       |      |       |  |
| LAB*LAB                          | 95.41 | -0.97 | 4.75 |       |  |
| LAB*LABa                         | 95.41 | 0.0   | 0.0  |       |  |
| LAB*TCHe                         | 99.99 | 0.01  | -    |       |  |
| relative CIELAB lab*             |       |       |      |       |  |
| lab*lab                          | 1.0   | 0.0   | 0.0  |       |  |
| lab*ch                           | 1.0   | 0.0   | -    |       |  |
| lab*nch                          | 0.0   | 0.0   | -    |       |  |
| relative Natural Colour (NC)     |       |       |      |       |  |
| lab*lrj                          | 1.0   | 0.0   | 0.0  |       |  |
| lab*ice                          | 1.0   | 0.0   | -    |       |  |
| lab*nce                          | 0.0   | 0.0   | -    |       |  |

| relative Inform. Technology (IT) |       |       |       |       |  |
|----------------------------------|-------|-------|-------|-------|--|
| olvi3*                           | 1.0   | 0.5   | 0.5   | (1.0) |  |
| cmyn3*                           | 0.0   | 0.5   | 0.5   | (0.0) |  |
| olvi4*                           | 1.0   | 0.5   | 0.5   | 1.0   |  |
| cmyn4*                           | 0.0   | 0.5   | 0.5   | 0.0   |  |
| standard and adapted CIELAB      |       |       |       |       |  |
| LAB*LAB                          | 71.67 | 32.15 | 28.41 |       |  |
| LAB*LABa                         | 71.67 | 32.15 | 28.41 |       |  |
| LAB*TCHe                         | 75.0  | 41.3  | 37.7  |       |  |
| relative CIELAB lab*             |       |       |       |       |  |
| lab*lab                          | 0.693 | 0.396 | 0.306 |       |  |
| lab*ch                           | 0.75  | 0.5   | 0.105 |       |  |
| lab*nch                          | 0.0   | 0.5   | 0.105 |       |  |
| lab*lrj                          | 0.693 | 0.477 | 0.15  |       |  |
| lab*ice                          | 0.75  | 0.5   | 0.048 |       |  |
| lab*nce                          | 0.0   | 0.5   | 0.191 |       |  |

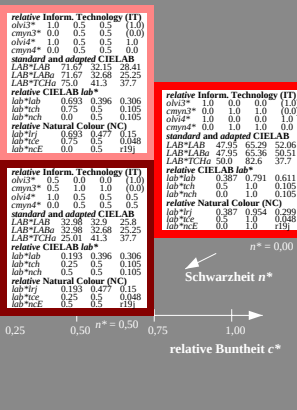
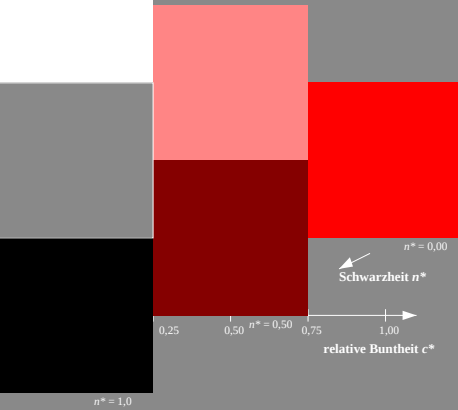
| relative Inform. Technology (IT) |       |       |       |       |  |
|----------------------------------|-------|-------|-------|-------|--|
| olvi3*                           | 1.0   | 0.0   | 1.0   | (1.0) |  |
| cmyn3*                           | 0.0   | 1.0   | 1.0   | (0.0) |  |
| olvi4*                           | 1.0   | 0.0   | 1.0   | 1.0   |  |
| cmyn4*                           | 0.0   | 1.0   | 1.0   | 0.0   |  |
| standard and adapted CIELAB      |       |       |       |       |  |
| LAB*LAB                          | 47.95 | 65.29 | 52.06 |       |  |
| LAB*LABa                         | 47.95 | 65.29 | 52.06 |       |  |
| LAB*TCHe                         | 50.0  | 82.6  | 37.7  |       |  |
| relative CIELAB lab*             |       |       |       |       |  |
| lab*lab                          | 0.387 | 0.791 | 0.611 |       |  |
| lab*ch                           | 0.387 | 0.954 | 0.299 |       |  |
| lab*ice                          | 0.5   | 1.0   | 0.048 |       |  |
| lab*nce                          | 0.0   | 1.0   | 0.191 |       |  |

| relative Inform. Technology (IT) |       |       |      |       |  |
|----------------------------------|-------|-------|------|-------|--|
| olvi3*                           | 0.5   | 0.5   | 0.5  | (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  | 0.5   |  |
| standard and adapted CIELAB      |       |       |      |       |  |
| LAB*LAB                          | 56.71 | -0.23 | 2.14 |       |  |
| LAB*LABa                         | 56.71 | 0.0   | 0.0  |       |  |
| LAB*TCHe                         | 50.0  | 0.01  | -    |       |  |
| relative CIELAB lab*             |       |       |      |       |  |
| lab*lab                          | 0.5   | 0.0   | 0.0  |       |  |
| lab*ch                           | 0.5   | 0.0   | -    |       |  |
| lab*nch                          | 0.5   | 0.0   | -    |       |  |
| relative Natural Colour (NC)     |       |       |      |       |  |
| lab*lrj                          | 0.5   | 0.0   | 0.0  |       |  |
| lab*ice                          | 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   | 1.0   |  |
| cmyn4*                           | 0.0   | 0.0  | 0.0   | 1.0   |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 18.02 | 0.5  | -0.46 |       |  |
| LAB*LABa                         | 18.02 | 0.0  | 0.0   |       |  |
| LAB*TCHe                         | 0.01  | 0.01 | -     |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 0.0   | 0.0  | 0.0   |       |  |
| lab*ch                           | 0.0   | 0.0  | -     |       |  |
| lab*nch                          | 0.0   | 1.0  | -     |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*lrj                          | 0.0   | 0.0  | 0.0   |       |  |
| lab*ice                          | 0.0   | 0.0  | -     |       |  |
| lab*nce                          | 1.0   | 0.0  | -     |       |  |

| 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   | 1.0   |  |
| cmyn4*                           | 0.0   | 0.5   | 0.5   | 0.5   |  |
| standard and adapted CIELAB      |       |       |       |       |  |
| LAB*LAB                          | 32.98 | 32.9  | 25.8  |       |  |
| LAB*LABa                         | 32.98 | 32.68 | 25.25 |       |  |
| LAB*TCHe                         | 25.01 | 41.3  | 37.7  |       |  |
| relative CIELAB lab*             |       |       |       |       |  |
| lab*lab                          | 0.193 | 0.396 | 0.306 |       |  |
| lab*ch                           | 0.25  | 0.5   | 0.105 |       |  |
| lab*nch                          | 0.5   | 0.5   | 0.105 |       |  |
| relative Natural Colour (NC)     |       |       |       |       |  |
| lab*lrj                          | 0.193 | 0.477 | 0.15  |       |  |
| lab*ice                          | 0.25  | 0.5   | 0.048 |       |  |
| lab*nce                          | 0.5   | 0.5   | 0.191 |       |  |

| 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   | 1.0   |  |
| cmyn4*                           | 0.0   | 0.5   | 0.5   | 0.5   |  |
| standard and adapted CIELAB      |       |       |       |       |  |
| LAB*LAB                          | 32.98 | 32.68 | 25.25 |       |  |
| LAB*LABa                         | 32.98 | 32.68 | 25.25 |       |  |
| LAB*TCHe                         | 25.01 | 41.3  | 37.7  |       |  |
| relative CIELAB lab*             |       |       |       |       |  |
| lab*lab                          | 0.193 | 0.396 | 0.306 |       |  |
| lab*ch                           | 0.25  | 0.5   | 0.105 |       |  |
| lab*nch                          | 0.5   | 0.5   | 0.105 |       |  |
| relative Natural Colour (NC)     |       |       |       |       |  |
| lab*lrj                          | 0.193 | 0.477 | 0.15  |       |  |
| lab*ice                          | 0.25  | 0.5   | 0.048 |       |  |
| lab*nce                          | 0.5   | 0.5   | 0.191 |       |  |



TG050-7, 3 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (links)

3 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (rechts)

BAM-Prüfvorlage TG05; Farbmetrik-Systeme MRS18 & ORS18input: `olv* setrgbcolor`  
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: `olv* setrgbcolor / w* setgray`