

# Input: Colorimetric Reflective System ORS18

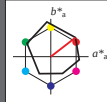
for hue  $h^* = \text{lab}^*h = 38/360 = 0.105$

LAB\*LCH, LAB\*NCH

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0



CIELAB lightness  $L^*$

%Gamut

$u^*_{\text{rel}} = 93$

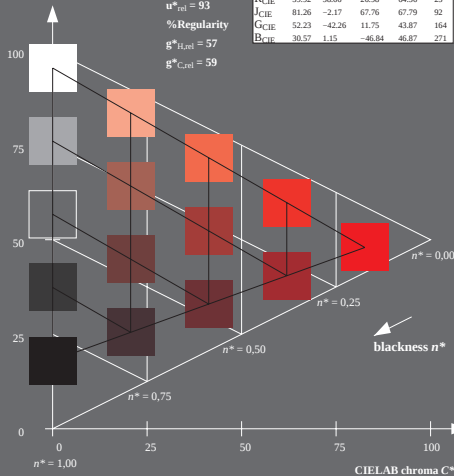
%Regularity

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

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

## ORS18; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{\text{ab},a}$ | $h^*_{\text{ab},a}$ |
|------------------|-------------|---------|---------|---------------------|---------------------|
| O <sub>Ma</sub>  | 47.94       | 65.37   | 50.52   | 82.62               | 38                  |
| Y <sub>Ma</sub>  | 90.37       | -10.27  | 91.77   | 92.34               | 96                  |
| L <sub>Ma</sub>  | 50.9        | -62.79  | 34.95   | 71.87               | 151                 |
| C <sub>Ma</sub>  | 58.62       | -30.35  | -45.01  | 54.3                | 236                 |
| V <sub>Ma</sub>  | 25.71       | 31.11   | -44.42  | 54.24               | 305                 |
| M <sub>Ma</sub>  | 48.13       | 75.27   | -8.35   | 75.73               | 354                 |
| N <sub>Ma</sub>  | 18.01       | 0.0     | 0.0     | 0.0                 | 0                   |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0                 | 0                   |
| R <sub>CIE</sub> | 39.92       | 58.66   | 26.98   | 64.56               | 25                  |
| J <sub>CIE</sub> | 81.26       | -2.17   | 67.76   | 67.79               | 92                  |
| G <sub>CIE</sub> | 52.23       | -42.26  | 11.75   | 43.87               | 164                 |
| B <sub>CIE</sub> | 30.57       | 1.15    | -46.84  | 46.87               | 271                 |



UE300-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

# Output: Colorimetric Reflective System MRS18

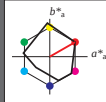
for hue  $h^* = \text{lab}^*h = 30/360 = 0.083$

LAB\*LCH, LAB\*NCH

D65: hue R

LCH\*Ma: 50 77 30

olv\*Ma: 1.0 0.0 0.0



CIELAB lightness  $L^*$

%Gamut

$u^*_{\text{rel}} = 91$

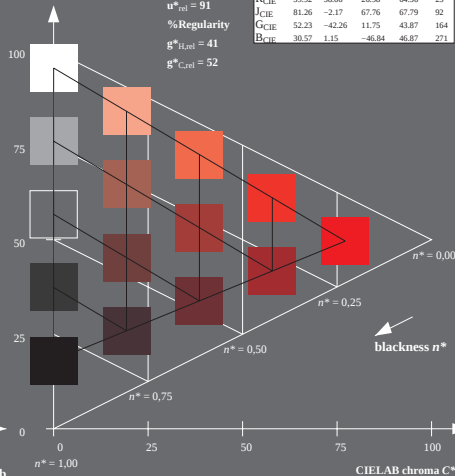
%Regularity

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

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

## MRS18; adapted (a) CIELAB data

|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{\text{ab},a}$ | $h^*_{\text{ab},a}$ |
|--------------------|-------------|---------|---------|---------------------|---------------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18               | 30                  |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98               | 94                  |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37               | 172                 |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36               | 218                 |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18               | 290                 |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31               | 322                 |
| N <sub>Ma</sub>    | 18.01       | 0.0     | 0.0     | 0.0                 | 0                   |
| W <sub>Ma</sub>    | 95.41       | 0.0     | 0.0     | 0.0                 | 0                   |
| R <sub>CIE</sub>   | 39.92       | 58.66   | 26.98   | 64.56               | 25                  |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79               | 92                  |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87               | 164                 |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87               | 271                 |



5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

BAM-test chart UE30; Colorimetric systems ORS18 & MRS18  
D65: Coordinate systems of 5 step colour scales for 10 hues

input: `cmv0* setcmvcolor`  
output: `cmv0* / 000n* setcmvcolor`