

# Input: Colorimetric Natural Reflective System CNS18

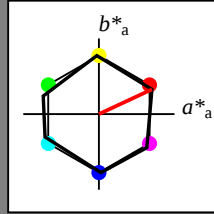
for hue  $h^* = lab^*h = 25/360 = 0.069$

LAB\*LCH, LAB\*NCH

D65: hue R

LCH\*Ma: 57 77 25

olv\*Ma: 1.0 0.0 0.0



## CNS18; adapted (a) CIELAB data

|                    | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| RMa                | 56.7        | 70.15   | 32.71   | 77.4         | 25           |
| JMa                | 56.7        | -2.69   | 77.35   | 77.4         | 92           |
| GMa                | 56.7        | -73.6   | 23.92   | 77.4         | 162          |
| G50B <sub>Ma</sub> | 56.7        | -71.24  | -30.23  | 77.4         | 203          |
| B <sub>Ma</sub>    | 56.7        | 2.7     | -77.34  | 77.4         | 272          |
| B50R <sub>Ma</sub> | 56.7        | 63.4    | -44.38  | 77.4         | 325          |
| 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       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

CIELAB lightness  $L^*$

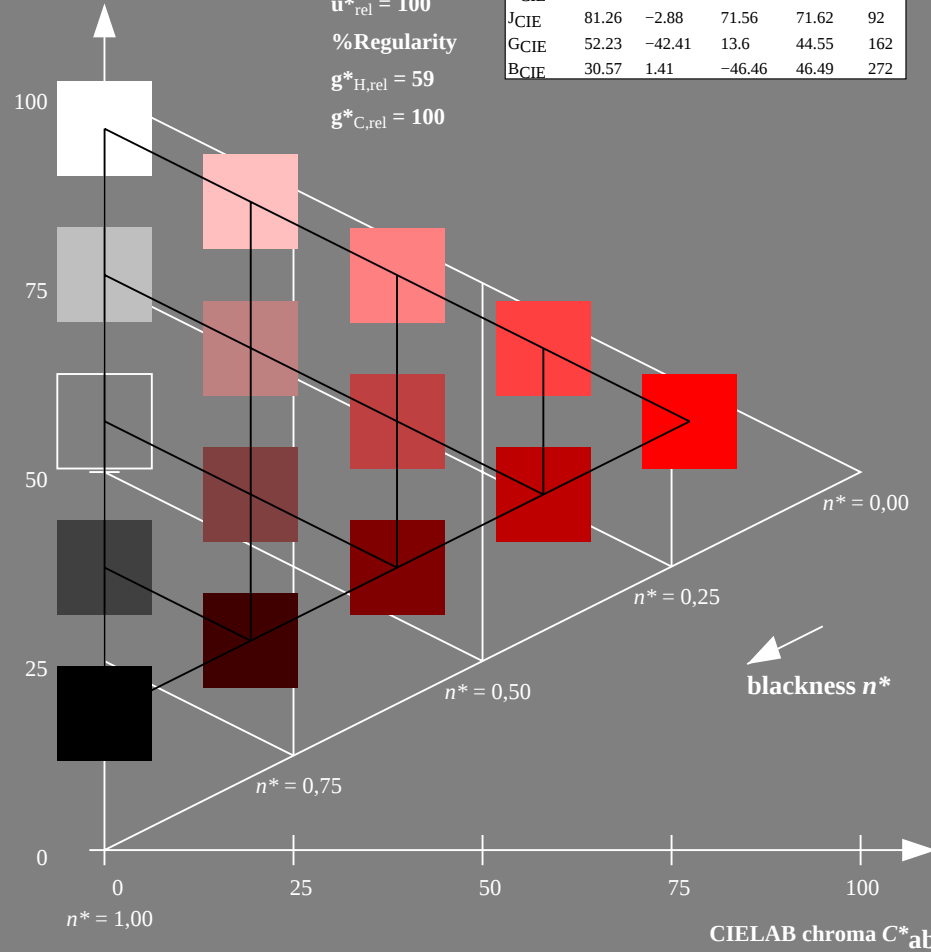
%Gamut

$u_{rel}^* = 100$

%Regularity

$g_{H,rel}^* = 59$

$g_{C,rel}^* = 100$



VE430-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

# Output: Colorimetric Offset Reflective System ORS18

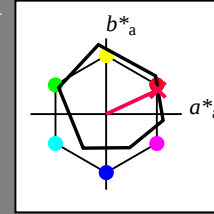
for hue  $h^* = lab^*h = 25/360 = 0.069$

LAB\*LCH, LAB\*NCH

D65: hue O

LCH\*Ma: 48 76 25

olv\*Ma: 1.0 0.0 0.32



## ORS18; adapted (a) CIELAB data

|                  | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ |
|------------------|-------------|---------|---------|--------------|--------------|
| OMa              | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| YMa              | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| LMa              | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| CMa              | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| VMa              | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| MMa              | 48.13       | 75.28   | -8.36   | 75.74        | 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   | 64.57        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>CIE</sub> | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

CIELAB lightness  $L^*$

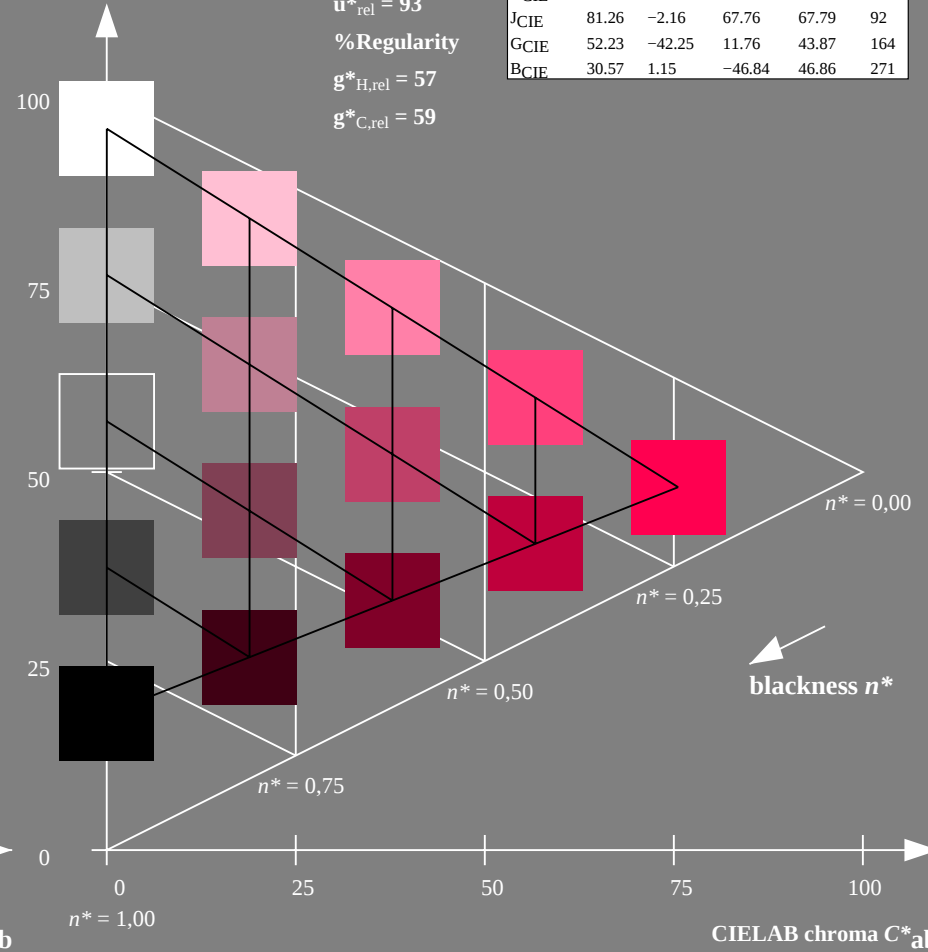
%Gamut

$u_{rel}^* = 93$

%Regularity

$g_{H,rel}^* = 57$

$g_{C,rel}^* = 59$



5 step scales for constant CIELAB hue 25/360 = 0.069 (right)