

# Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 38/360 = 0.105$

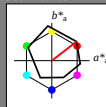
$lab^*ch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 93$

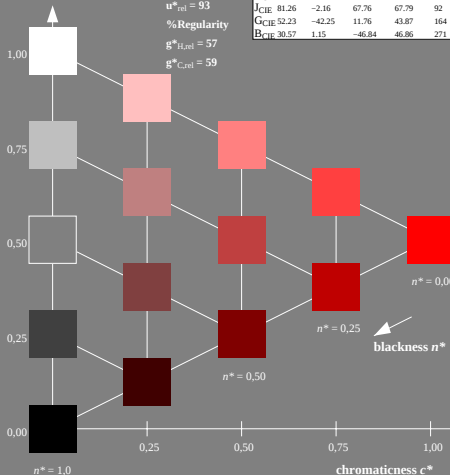
%Regularity

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

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

## ORS18; adapted (a) CIELAB data

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>m</sub>   | 47.94         | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>m</sub>   | 90.37         | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>m</sub>   | 50.9          | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>m</sub>   | 58.62         | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>m</sub>   | 25.72         | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>m</sub>   | 48.13         | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>m</sub>   | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>m</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          |



NE240-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

# Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 38/360 = 0.105$

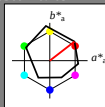
$LAB^*LCH$ ,  $LAB^*NCH$

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

CIELAB lightness  $L^*$



%Gamut

$u^*_{rel} = 93$

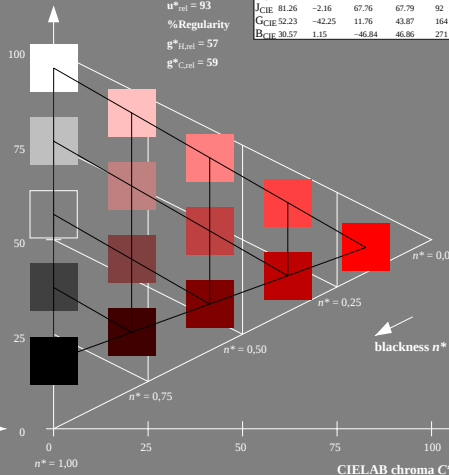
%Regularity

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

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

## ORS18; adapted (a) CIELAB data

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>m</sub>   | 47.94         | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>m</sub>   | 90.37         | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>m</sub>   | 50.9          | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>m</sub>   | 58.62         | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>m</sub>   | 25.72         | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>m</sub>   | 48.13         | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>m</sub>   | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>m</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          |



5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

BAM-test chart NE24; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv\* setrgbcolor

output: olv\* setrgbcolor / w\* setgray