

# Input: Colorimetric Offset Reflective System ORS18

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

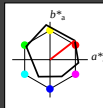
$lab^*ch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

olvm\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



| ORS18; adapted (a) CIELAB data |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| O <sub>Md</sub> 47.94          | 65.39   | 50.52   | 82.63        | 38           |  |
| Y <sub>Md</sub> 90.37          | -10.26  | 91.75   | 92.32        | 96           |  |
| L <sub>Md</sub> 50.9           | -62.83  | 34.96   | 71.91        | 151          |  |
| C <sub>Md</sub> 58.62          | -30.34  | -45.01  | 54.3         | 236          |  |
| V <sub>Md</sub> 25.72          | 31.1    | -44.4   | 54.22        | 305          |  |
| M <sub>Md</sub> 48.13          | 75.28   | -8.36   | 75.74        | 354          |  |
| N <sub>Md</sub> 18.01          | 0.0     | 0.0     | 0.0          | 0            |  |
| W <sub>Md</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          |  |

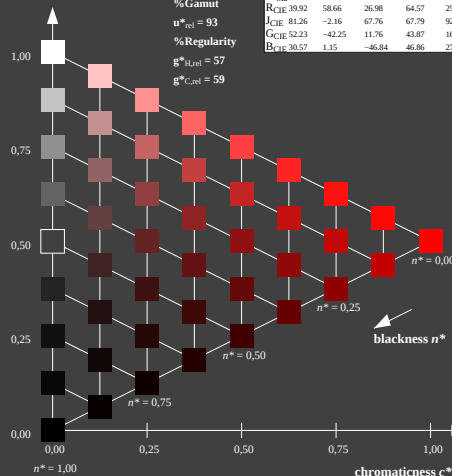
%Gamut

$u^*_{rel} = 93$

%Regularity

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

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



NE700-7, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left)

BAM-test chart NE70; Colorimetric systems ORS18 & TLS00

D65: 9 and 16 step colour scales for 10 hues

# Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 40/360 = 0.111$

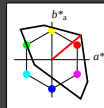
$lab^*ch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olvm\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



| TLS00; adapted (a) CIELAB data |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| O <sub>Md</sub> 50.5           | 76.92   | 64.55   | 100.42       | 40           |  |
| Y <sub>Md</sub> 92.66          | -20.69  | 90.75   | 93.08        | 103          |  |
| L <sub>Md</sub> 83.63          | -82.75  | 79.9    | 115.04       | 136          |  |
| C <sub>Md</sub> 86.88          | -46.16  | -13.55  | 48.12        | 196          |  |
| V <sub>Md</sub> 30.39          | 76.06   | -103.59 | 128.52       | 306          |  |
| M <sub>Md</sub> 57.3           | 94.35   | -58.41  | 110.97       | 328          |  |
| N <sub>Md</sub> 0.01           | 0.0     | 0.0     | 0.0          | 0            |  |
| W <sub>Md</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          |  |

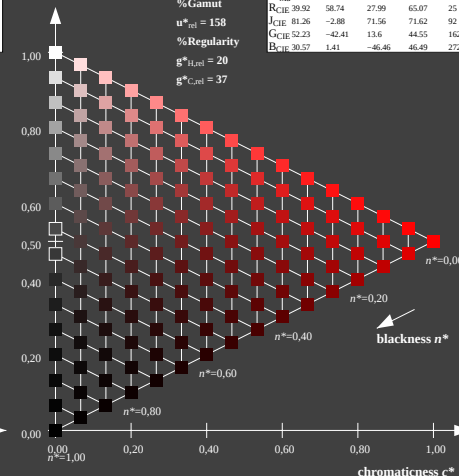
%Gamut

$u^*_{rel} = 158$

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$



16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

input:  $olv^*setrgbcolor$

output:  $olv^*setrgbcolor / w^*setgray$