

# Input: Colorimetric Offset Reflective System ORS18

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

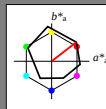
$lab^*tch$  and  $lab^*nch$

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

| $L^* = L^*_{a^*}$ | $a^*_{a^*}$ | $b^*_{a^*}$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------------|-------------|-------------|--------------|--------------|
| 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          |
| 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       | 64.57        | 25           |
| JCIE 81.26        | -2.16       | 67.76       | 67.79        | 92           |
| GCIE 52.23        | -42.25      | 11.76       | 43.87        | 164          |
| BCIE 30.57        | 1.15        | -46.84      | 46.86        | 271          |

# Output: Colorimetric Television Luminous System TLS18

for hue  $h^* = lab^*h = 35/360 = 0.097$

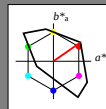
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 53 87 35

olv\*Ma: 1.0 0.0 0.0

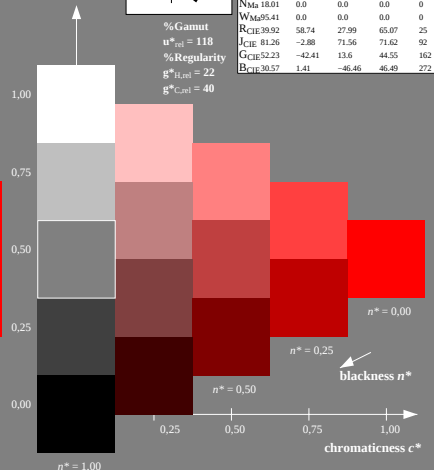
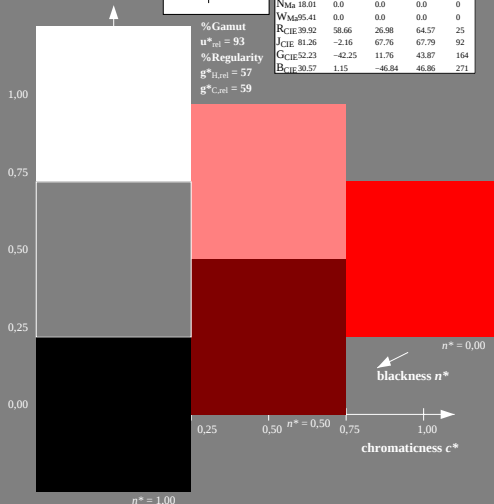
triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 118$   
%Regularity  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

## TLS18; adapted (a) CIELAB data

| $L^* = L^*_{a^*}$ | $a^*_{a^*}$ | $b^*_{a^*}$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------------|-------------|-------------|--------------|--------------|
| OMa 52.76         | 71.63       | 49.88       | 87.29        | 35           |
| YMa 92.74         | -20.02      | 84.97       | 87.3         | 103          |
| LMa 84.0          | -78.98      | 73.94       | 108.2        | 137          |
| CMa 87.14         | -44.41      | -13.11      | 46.32        | 196          |
| VMa 35.47         | 64.92       | -95.06      | 115.12       | 304          |
| MMa 59.01         | 89.33       | -55.67      | 105.26       | 328          |
| NMa 18.01         | 0.0         | 0.0         | 0.0          | 0            |
| WMa 95.41         | 0.0         | 0.0         | 0.0          | 0            |
| RCIE 39.92        | 58.74       | 27.99       | 65.07        | 25           |
| JCIE 81.26        | -2.88       | 71.56       | 71.62        | 92           |
| GCIE 52.23        | -42.41      | 13.6        | 44.55        | 162          |
| BCIE 30.57        | 1.41        | -46.46      | 46.49        | 272          |



NE810-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 35/360 = 0.097 (right)

BAM-test chart NE81; Colorimetric systems ORS18 & TLS18

D65: 3 and 5 step colour scales for 10 hues

input: olv\* setrgbcolor

output: no change compared to input