

# Input: Colorimetric Television Luminous System TLS00

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

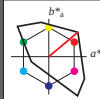
$lab^*ch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

TLS00; adapted (a) CIELAB data

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_{M5}$  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| $Y_{M5}$  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| $L_{M5}$  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| $C_{M5}$  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| $V_{M5}$  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| $M_{M5}$  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| $N_{M5}$  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{M5}$  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$ | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$ | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$ | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

# Output: Colorimetric Offset Reflective System ORS18

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

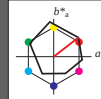
$lab^*ch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 93$

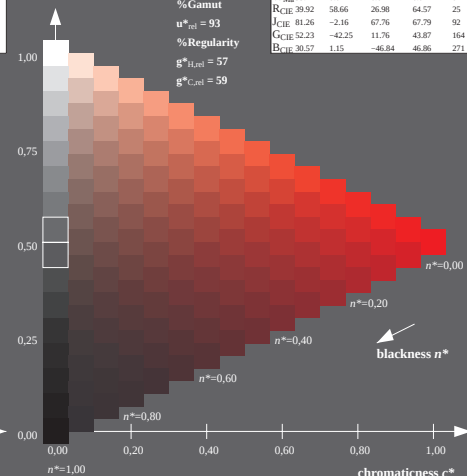
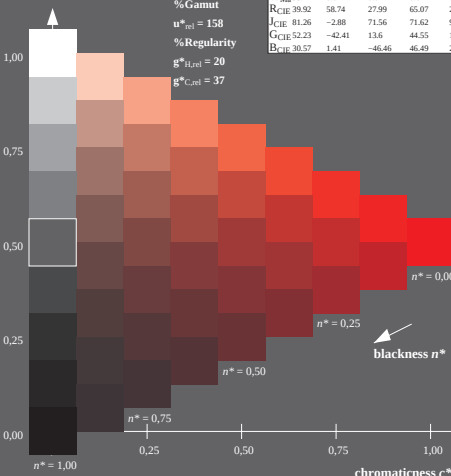
%Regularity

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

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

ORS18; adapted (a) CIELAB data

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_{M5}$  | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| $Y_{M5}$  | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| $L_{M5}$  | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| $C_{M5}$  | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| $V_{M5}$  | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| $M_{M5}$  | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| $N_{M5}$  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| $W_{M5}$  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$ | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| $J_{CIE}$ | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| $G_{CIE}$ | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| $B_{CIE}$ | 30.57       | 1.15    | -46.84  | 46.86        | 271          |



OE950-7, 9 step scales for constant CIELAB hue 40/360 = 0.111 (left)

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

BAM-test chart OE95; Colorimetric systems TLS00 & ORS18  
D65: 9 and 16 step colour scales for 10 hues

input:  $cmy0^* \text{ setcmykcolor}$   
output:  $cmy0^* / 000n^* \text{ setcmykcolor}$