

```
output: cmv0* / 000n* setcmvcolor
```

## Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab \cdot h = 96/360 = 0.268$

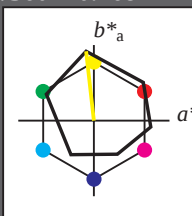
$lab \cdot tch$  and  $lab \cdot nch$

D50: hue Y

LCH\*Ma: 90 92 96

olv\*Ma: 1.0 1.0 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>Ma</sub>  | 47.94         | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>  | 90.37         | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>  | 50.9          | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>  | 58.62         | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.72         | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>  | 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          |

%Regularity

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

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

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 1.0  
cmyn4\* 0.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 95.41 -0.98 47.5  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCHa 99.99 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 76.06 -0.61 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*TCHa 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75  
lab\*tch 0.75 0.75 0.75  
lab\*nch 0.25 0.25 0.25  
relative Natural Colour (NC)  
lab\*lrj 0.75 0.75 0.75  
lab\*nce 0.75 0.75 0.75

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.24 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5  
lab\*tch 0.5 0.5 0.5  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.5 0.5  
lab\*nce 0.5 0.5 0.5

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 37.36 -0.38 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCHa 25.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25  
lab\*tch 0.25 0.25 0.25  
lab\*nch 0.75 0.75 0.75  
relative Natural Colour (NC)  
lab\*lrj 0.25 0.25 0.25  
lab\*nce 0.75 0.75 0.75

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.03 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.03 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 94.14 -3.52 27.6  
LAB\*LABa 94.14 -2.56 22.93  
LAB\*TCHa 87.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.984 -0.027 0.248  
lab\*tch 0.875 0.25 2.68  
lab\*nch 0.0 0.25 2.68  
relative Natural Colour (NC)  
lab\*lrj 0.984 -0.024 0.249  
lab\*nce 0.875 0.25 2.68

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 74.8 -3.15 26.3  
LAB\*LABa 74.8 -2.56 22.94  
LAB\*TCHa 62.5 23.08 96.38

relative CIELAB lab\*  
lab\*lab 0.734 -0.024 0.249  
lab\*tch 0.625 0.25 2.66  
lab\*nch 0.25 0.25 2.66  
relative Natural Colour (NC)  
lab\*lrj 0.734 -0.024 0.249  
lab\*nce 0.625 0.25 2.66

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 55.45 -2.78 5.0  
LAB\*LABa 55.45 -2.56 22.94  
LAB\*TCHa 37.5 23.08 96.38

relative CIELAB lab\*  
lab\*lab 0.484 -0.027 0.248  
lab\*tch 0.375 0.25 2.68  
lab\*nch 0.25 0.25 2.68  
relative Natural Colour (NC)  
lab\*lrj 0.484 -0.024 0.249  
lab\*nce 0.375 0.25 2.68

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 36.1 -2.56 22.93  
LAB\*LABa 36.1 -2.56 22.93  
LAB\*TCHa 12.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 2.68  
lab\*nch 0.75 0.75 0.75  
relative Natural Colour (NC)  
lab\*lrj 0.234 -0.024 0.249  
lab\*nce 0.125 0.25 2.66

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.03 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 92.88 -6.06 50.46  
LAB\*LABa 92.88 -5.12 45.87  
LAB\*TCHa 75.0 46.15 96.38

relative CIELAB lab\*  
lab\*lab 0.967 -0.055 0.497  
lab\*tch 0.75 0.5 0.268  
lab\*nch 0.0 0.5 2.68  
relative Natural Colour (NC)  
lab\*lrj 0.967 -0.048 0.497  
lab\*nce 0.75 0.5 0.266

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 73.54 -5.12 45.88  
LAB\*LABa 73.54 -5.12 45.88  
LAB\*TCHa 50.0 46.15 96.38

relative CIELAB lab\*  
lab\*lab 0.717 -0.055 0.497  
lab\*tch 0.5 0.5 0.268  
lab\*nch 0.25 0.25 2.68  
relative Natural Colour (NC)  
lab\*lrj 0.717 -0.048 0.498  
lab\*nce 0.5 0.5 0.266

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 51.9 -2.78 5.0  
LAB\*LABa 51.9 -2.56 22.94  
LAB\*TCHa 37.5 23.08 96.38

relative CIELAB lab\*  
lab\*lab 0.484 -0.027 0.248  
lab\*tch 0.375 0.25 2.68  
lab\*nch 0.25 0.25 2.68  
relative Natural Colour (NC)  
lab\*lrj 0.484 -0.024 0.249  
lab\*nce 0.375 0.25 2.68

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 36.1 -2.56 22.93  
LAB\*LABa 36.1 -2.56 22.93  
LAB\*TCHa 12.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 2.68  
lab\*nch 0.75 0.75 0.75  
relative Natural Colour (NC)  
lab\*lrj 0.234 -0.024 0.249  
lab\*nce 0.125 0.25 2.66

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.03 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 91.62 -8.61 73.31  
LAB\*LABa 91.62 -6.9 68.8  
LAB\*TCHa 62.5 69.23 96.38

relative CIELAB lab\*  
lab\*lab 0.951 -0.082 0.745  
lab\*tch 0.625 0.75 2.68  
lab\*nch 0.0 0.75 2.68  
relative Natural Colour (NC)  
lab\*lrj 0.951 -0.073 0.746  
lab\*nce 0.625 0.75 2.66

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 90.36 -11.15 96.15  
LAB\*LABa 90.36 -10.25 91.73  
LAB\*TCHa 50.0 92.3 96.38

relative CIELAB lab\*  
lab\*lab 0.938 -0.11 0.994  
lab\*tch 0.5 1.0 0.268  
lab\*nch 0.0 1.0 2.68  
relative Natural Colour (NC)  
lab\*lrj 0.938 -0.097 0.995  
lab\*nce 0.5 1.0 0.266

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 47.72 0.0 0.0  
LAB\*LABa 47.72 0.0 0.0  
LAB\*TCHa 50.0 0.0 1.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5  
lab\*tch 0.5 0.5 0.5  
lab\*nch 0.0 0.5 0.5  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.5 0.5  
lab\*nce 0.5 0.5 0.5

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 47.72 0.0 0.0  
LAB\*LABa 47.72 0.0 0.0  
LAB\*TCHa 50.0 0.0 1.0

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25  
lab\*tch 0.25 0.25 0.25  
lab\*nch 0.75 0.75 0.75  
relative Natural Colour (NC)  
lab\*lrj 0.25 0.25 0.25  
lab\*nce 0.75 0.75 0.75

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness  $c^*$

## Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab \cdot h = 103/360 = 0.286$

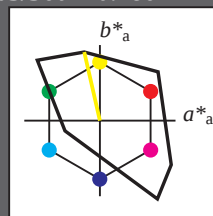
$lab \cdot tch$  and  $lab \cdot nch$

D50: hue Y

LCH\*Ma: 93 93 103

olv\*Ma: 1.0 1.0 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>Ma</sub>  | 50.5          | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66         | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63         | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88         | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39         | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3          | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01          | 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          |

%Regularity

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

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

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 1.0  
cmyn4\* 0.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCHa 99.99 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 71.57 0.0 0.0  
LAB\*LABa 71.57 -5.16 22.68  
LAB\*TCHa 71.57 -5.16 22.68

relative CIELAB lab\*  
lab\*lab 0.993 -0.058 0.243  
lab\*tch 0.875 0.25 2.88  
lab\*nch 0.0 0.25 2.88  
relative Natural Colour (NC)  
lab\*lrj 0.993 -0.058 0.243  
lab\*nce 0.875 0.25 2.88

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 50.01 -0.01 0.0  
LAB\*LABa 50.01 -0.01 0.0  
LAB\*TCHa 50.01 -0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5  
lab\*tch 0.5 0.5 0.5  
lab\*nch 0.0 0.5 0.5  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.5 0.5  
lab\*nce 0.5 0.5 0.5

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 0.25  
cmyn4\* 0.0 0.0 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 47.72 0.0 0.0  
LAB\*LABa 47.72 0.0 0.0  
LAB\*TCHa 50.0 0.0 1.0

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25  
lab\*tch 0.25 0.25 0.25  
lab\*nch 0.75 0.75 0.75  
relative Natural Colour (NC)  
lab\*lrj 0.25 0.25 0.25  
lab\*nce 0.75 0.75 0.75

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.03 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.03 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01

## Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 151/360 = 0.419$

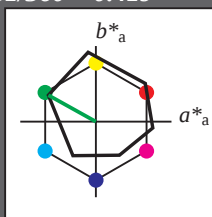
$lab^*tch$  and  $lab^*nch$

D50: hue L

LCH\*Ma: 51 72 151

olv\*Ma: 0.0 1.0 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>Ma</sub>  | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>  | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>  | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>  | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>  | 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          |

%Regularity

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

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

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 -0.98 47.5  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 -0.61 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*tch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*tch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.24 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 55.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.0  
lab\*tch 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.36 -0.03 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 35.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*LABb 18.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
lab\*trj 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
lab\*trj 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 1.0 0.75 (1.0)  
cmyn3\* 0.25 0.0 0.75 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.28 -16.47 12.74  
LAB\*LABa 84.28 -15.69 8.74  
LAB\*LABb 87.5 17.97 150.91

relative CIELAB lab\*  
lab\*lab 0.856 -0.217 0.121  
lab\*tch 0.875 0.25 0.419  
lab\*nch 0.0 0.25 0.419  
lab\*trj 0.856 -0.238 0.072  
lab\*tch 0.875 0.25 0.453  
lab\*nch 0.0 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.5 0.75 0.5 (1.0)  
cmyn3\* 0.5 0.25 0.5 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 64.93 -16.1 11.44  
LAB\*LABa 64.93 -15.7 8.74  
LAB\*LABb 62.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.616 -0.217 0.122  
lab\*tch 0.625 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
lab\*trj 0.616 -0.238 0.072  
lab\*tch 0.625 0.25 0.453  
lab\*nch 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.5 0.75 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 45.28 -15.73 10.13  
LAB\*LABa 45.28 -15.7 8.74  
LAB\*LABb 42.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.356 -0.217 0.122  
lab\*tch 0.375 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
lab\*trj 0.356 -0.238 0.072  
lab\*tch 0.375 0.25 0.453  
lab\*nch 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 1.0 0.75 1.0 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 26.24 -15.5 8.82  
LAB\*LABa 26.24 -15.69 8.74  
LAB\*LABb 25.01 17.97 150.91

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
lab\*trj 0.106 -0.238 0.072  
lab\*tch 0.125 0.25 0.453  
lab\*nch 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*LABb 18.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
lab\*trj 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
lab\*trj 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0

## Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 136/360 = 0.378$

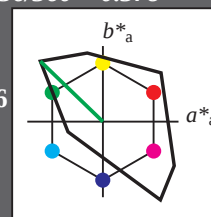
$lab^*tch$  and  $lab^*nch$

D50: hue L

LCH\*Ma: 84 115 136

olv\*Ma: 0.0 1.0 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>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 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          |

%Regularity

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

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

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 71.57 0.0 0.0  
LAB\*LABa 71.57 0.0 0.0  
LAB\*LABb 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*tch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.75 0.0 0.0  
lab\*tch 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.5 0.75 0.5 (1.0)  
cmyn3\* 0.5 0.25 0.5 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 62.02 -17.1 16.21  
LAB\*LABa 62.02 -17.1 16.21  
LAB\*LABb 62.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.569 -0.217 0.121  
lab\*tch 0.588 0.25 0.419  
lab\*nch 0.0 0.25 0.419  
lab\*trj 0.569 -0.238 0.072  
lab\*tch 0.588 0.25 0.453  
lab\*nch 0.0 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.5 0.75 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.68 -17.09 27.41  
LAB\*LABa 42.68 -17.1 16.21  
LAB\*LABb 42.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.319 -0.217 0.121  
lab\*tch 0.338 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
lab\*trj 0.319 -0.238 0.072  
lab\*tch 0.338 0.25 0.453  
lab\*nch 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 1.0 0.75 1.0 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 23.87 0.0 0.0  
LAB\*LABa 23.87 0.0 0.0  
LAB\*LABb 25.01 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.03 0.0 0.0  
LAB\*LABa 0.03 0.0 0.0  
LAB\*LABb 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
lab\*trj 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 1.0 0.75 (1.0)  
cmyn3\* 0.25 0.0 0.75 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 89.51 -41.36 39.94  
LAB\*LABa 89.51 -41.37 39.95  
LAB\*LABb 87.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.938 -0.359 0.347  
lab\*tch 0.957 0.25 0.378  
lab\*nch 0.0 0.25 0.378  
lab\*trj 0.938 -0.415 0.278  
lab\*tch 0.957 0.25 0.406  
lab\*nch 0.0 0.25 0.378

relative Inform. Technology (IT)  
olv3\* 0.5 0.75 0.5 (1.0)  
cmyn3\* 0.5 0.25 0.5 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 68.61 -20.68 19.98  
LAB\*LABa 68.61 -20.68 19.98  
LAB\*LABb 62.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.616 -0.217 0.122  
lab\*tch 0.625 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
lab\*trj 0.616 -0.238 0.072  
lab\*tch 0.625 0.25 0.453  
lab\*nch 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.5 0.75 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 44.76 -17.09 27.41  
LAB\*LABa 44.76 -17.1 16.21  
LAB\*LABb 42.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.356 -0.217 0.122  
lab\*tch 0.375 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
lab\*trj 0.356 -0.238 0.072  
lab\*tch 0.375 0.25 0.453  
lab\*nch 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 1.0 0.75 1.0 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 23.87 0.0 0.0  
LAB\*LABa 23.87 0.0 0.0  
LAB\*LABb 25.01 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.0  
lab\*tch 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.03 0.0 0.0  
LAB\*LABa 0.03 0.0 0.0  
LAB\*LABb 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
lab\*trj 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tch 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 1.0 0.75 (1.0)  
cmyn3\* 0.25 0.0 0.75 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 89.51 -41.36 39.94  
LAB\*LABa 89.51 -41.37 39.95  
LAB\*LABb 87.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.938 -0.359 0.347  
lab\*tch 0.957 0.25 0.378  
lab\*nch 0.0 0.25 0.378  
lab\*trj 0.938 -0.415 0.278  
lab\*tch 0.957 0.25 0.406  
lab\*nch 0.0 0.25 0.378

relative Inform. Technology (IT)  
olv3\* 0.5 0.75 0.5 (1.0)  
cmyn3\* 0.5 0.25 0.5 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 68.61 -20.68 19.98  
LAB\*LABa 68.61 -20.68 19.98  
LAB\*LABb 62.5 17.98 15



# Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 305/360 = 0.847$

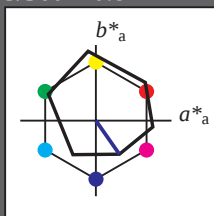
$lab^*tch$  and  $lab^*nch$

D50: hue V

LCH\*Ma: 26 54 305

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 95.41 -0.98 47.5  
LAB\*Lab 95.41 0.0 0.0  
LAB\*Lab 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 76.06 -0.61 3.44  
LAB\*Lab 76.06 0.0 0.0  
LAB\*Lab 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 56.71 -0.24 2.14  
LAB\*Lab 56.71 0.0 0.0  
LAB\*Lab 55.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 37.36 -0.38 0.63  
LAB\*Lab 37.36 0.0 0.0  
LAB\*Lab 35.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 18.02 0.03 0.47  
LAB\*Lab 18.02 0.0 0.0  
LAB\*Lab 15.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 18.02 0.03 0.47  
LAB\*Lab 18.02 0.0 0.0  
LAB\*Lab 15.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

## ORS18; adapted (a) CIELAB data

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

% Regularity

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

$g^*_{C,rel} = 155$

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 60.56 15.23 -19.79  
LAB\*Lab 60.56 15.23 -19.79  
LAB\*Lab 75.00 27.1 305.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 43.14 23.34 -32.07  
LAB\*Lab 43.14 23.34 -32.07  
LAB\*Lab 62.5 40.66 305.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 25.73 31.09 -44.39  
LAB\*Lab 25.73 31.09 -44.39  
LAB\*Lab 50.0 54.21 305.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 23.8 23.71 -33.37  
LAB\*Lab 23.8 23.71 -33.37  
LAB\*Lab 37.51 40.66 305.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 23.8 23.71 -33.37  
LAB\*Lab 23.8 23.71 -33.37  
LAB\*Lab 50.0 54.21 305.0

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

# Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 306/360 = 0.851$

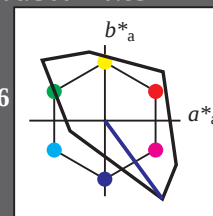
$lab^*tch$  and  $lab^*nch$

D50: hue V

LCH\*Ma: 30 129 306

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
olvi3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 95.41 0.0 0.0  
LAB\*Lab 95.41 0.0 0.0  
LAB\*Lab 99.99 0.01 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
lab\*trj 1.0 0.0 0.0  
lab\*trc 1.0 0.0 0.0  
lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 71.57 0.0 0.0  
LAB\*Lab 71.57 0.0 0.0  
LAB\*Lab 75.00 0.01 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 55.31 19.01 -25.89  
LAB\*Lab 55.31 19.01 -25.89  
LAB\*Lab 62.5 32.13 306.29

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 31.46 19.01 -25.89  
LAB\*Lab 31.46 19.01 -25.89  
LAB\*Lab 50.0 54.21 305.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 31.46 19.01 -25.89  
LAB\*Lab 31.46 19.01 -25.89  
LAB\*Lab 50.0 54.21 305.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 31.46 19.01 -25.89  
LAB\*Lab 31.46 19.01 -25.89  
LAB\*Lab 50.0 54.21 305.0

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*trc 0.75 0.75 0.75 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

## TLS00; adapted (a) CIELAB data

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

% Regularity

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

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

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 62.9 38.02 -51.78  
LAB\*Lab 62.9 38.02 -51.78  
LAB\*Lab 75.0 64.25 306.29

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 39.05 38.03 -51.79  
LAB\*Lab 39.05 38.03 -51.79  
LAB\*Lab 50.0 64.25 306.29

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 22.8 57.04 -77.68  
LAB\*Lab 22.8 57.04 -77.68  
LAB\*Lab 37.51 96.38 306.29

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
olvi3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
olvi4\* 0.0 0.0 0.0 (0.0)  
olvi5\* 1.0 1.0 1.0 (1.0)  
olvi5\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*Lab 22.8 57.04 -77.68  
LAB\*Lab 22.8 57.04 -77.68  
LAB\*Lab 50.0 64.25 306.29

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (1.0)  
lab\*tch 0.5 0.5 0.5 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
lab\*trj 0.5 0.5 0.5 (1.0)  
lab\*trc 0.5 0.5 0.5 (1.0)  
lab\*ncc 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT

## Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 354/360 = 0.982$

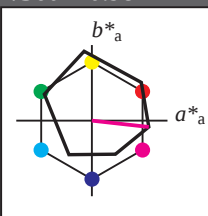
$lab^*tch$  and  $lab^*nch$

D50: hue M

LCH\*Ma: 48 76 354

olv\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

### ORS18; adapted (a) CIELAB data

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

% Regularity

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

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

## Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 328/360 = 0.912$

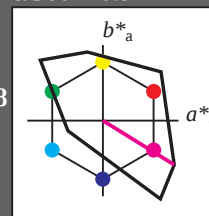
$lab^*tch$  and  $lab^*nch$

D50: hue M

LCH\*Ma: 57 111 328

olv\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 158$

### TLS00; adapted (a) CIELAB data

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

% Regularity

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

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

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olv3*                            | 1.0 1.0 1.0 (1.0) |
| olv4*                            | 0.0 0.0 0.0 (0.0) |
| olv5*                            | 1.0 1.0 1.0 (1.0) |
| olv6*                            | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*Lab                          | 95.41 -0.98 47.5  |
| LAB*Lab                          | 95.41 0.0 0.0     |
| LAB*Lab                          | 99.99 0.01 -      |

|                              |             |
|------------------------------|-------------|
| relative CIELAB lab*         |             |
| lab*lab                      | 1.0 0.0 0.0 |
| lab*tch                      | 0.0 0.0 0.0 |
| lab*nch                      | 0.0 0.0 0.0 |
| relative Natural Colour (NC) |             |
| lab*trj                      | 0.0 0.0 0.0 |
| lab*tce                      | 0.0 0.0 0.0 |
| lab*nce                      | 0.0 0.0 0.0 |

|                                  |                    |
|----------------------------------|--------------------|
| relative Inform. Technology (IT) |                    |
| olv3*                            | 1.0 0.75 1.0 (1.0) |
| olv4*                            | 0.0 0.25 0.0 (0.0) |
| olv5*                            | 1.0 0.75 1.0 (1.0) |
| olv6*                            | 0.0 0.25 0.0 (0.0) |
| standard and adapted CIELAB      |                    |
| LAB*Lab                          | 83.59 18.05 1.87   |
| LAB*Lab                          | 83.59 18.01 -2.08  |
| LAB*Lab                          | 87.5 18.93 353.66  |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.847 0.248 -0.027 |
| lab*tch                      | 0.875 0.25 0.982   |
| lab*nch                      | 0.0 0.25 0.982     |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.847 0.227 -0.103 |
| lab*tce                      | 0.875 0.25 0.982   |
| lab*nce                      | 0.0 0.25 0.982     |

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olv3*                            | 1.0 0.5 1.0 (1.0) |
| olv4*                            | 0.0 0.5 0.0 (0.0) |
| olv5*                            | 1.0 0.5 1.0 (1.0) |
| olv6*                            | 0.0 0.5 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*Lab                          | 71.77 37.1 -1.01  |
| LAB*Lab                          | 71.77 37.63 -4.17 |
| LAB*Lab                          | 75.0 37.86 353.66 |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.695 0.497 -0.054 |
| lab*tch                      | 0.75 0.5 0.982     |
| lab*nch                      | 0.0 0.5 0.982      |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.695 0.454 -0.208 |
| lab*tce                      | 0.75 0.5 0.982     |
| lab*nce                      | 0.0 0.5 0.982      |

|                                  |                    |
|----------------------------------|--------------------|
| relative Inform. Technology (IT) |                    |
| olv3*                            | 1.0 0.25 1.0 (1.0) |
| olv4*                            | 0.0 0.25 0.0 (0.0) |
| olv5*                            | 1.0 0.25 1.0 (1.0) |
| olv6*                            | 0.0 0.25 0.0 (0.0) |
| standard and adapted CIELAB      |                    |
| LAB*Lab                          | 59.95 56.15 -3.9   |
| LAB*Lab                          | 59.95 56.15 -6.26  |
| LAB*Lab                          | 62.5 56.8 353.66   |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.542 0.745 -0.082 |
| lab*tch                      | 0.625 0.75 0.982   |
| lab*nch                      | 0.0 0.75 0.982     |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.542 0.682 -0.312 |
| lab*tce                      | 0.625 0.75 0.982   |
| lab*nce                      | 0.0 0.75 0.982     |

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olv3*                            | 1.0 0.0 1.0 (1.0) |
| olv4*                            | 0.0 0.0 0.0 (0.0) |
| olv5*                            | 1.0 0.0 1.0 (1.0) |
| olv6*                            | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*Lab                          | 48.13 75.18 -6.79 |
| LAB*Lab                          | 48.13 75.18 -8.35 |
| LAB*Lab                          | 50.0 75.73 353.66 |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.389 0.994 -0.109 |
| lab*tch                      | 0.5 1.0 0.982      |
| lab*nch                      | 0.0 1.0 0.982      |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.389 0.909 -0.416 |
| lab*tce                      | 0.5 1.0 0.982      |
| lab*nce                      | 0.0 1.0 0.982      |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.75 0.75 0.75 (1.0) |
| olv4*                            | 0.25 0.25 0.25 (0.0) |
| olv5*                            | 1.0 1.0 1.0 (1.0)    |
| olv6*                            | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 76.06 -0.61 3.44     |
| LAB*Lab                          | 76.06 0.0 0.0        |
| LAB*Lab                          | 75.0 0.01 -          |

|                              |              |
|------------------------------|--------------|
| relative CIELAB lab*         |              |
| lab*lab                      | 0.75 0.0 0.0 |
| lab*tch                      | 0.75 0.0 0.0 |
| lab*nch                      | 0.0 0.0 0.0  |
| relative Natural Colour (NC) |              |
| lab*trj                      | 0.75 0.0 0.0 |
| lab*tce                      | 0.75 0.0 0.0 |
| lab*nce                      | 0.0 0.0 0.0  |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.75 0.5 0.75 (1.0)  |
| olv4*                            | 0.25 0.25 0.25 (0.0) |
| olv5*                            | 1.0 0.75 1.0 (1.0)   |
| olv6*                            | 0.0 0.25 0.0 (0.0)   |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 64.24 18.43 0.56     |
| LAB*Lab                          | 64.24 18.82 -2.08    |
| LAB*Lab                          | 62.5 18.94 353.66    |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.597 0.248 -0.027 |
| lab*tch                      | 0.625 0.25 0.982   |
| lab*nch                      | 0.0 0.25 0.982     |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.597 0.227 -0.103 |
| lab*tce                      | 0.625 0.25 0.982   |
| lab*nce                      | 0.0 0.25 0.982     |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.75 0.25 0.75 (1.0) |
| olv4*                            | 0.25 0.25 0.25 (0.0) |
| olv5*                            | 1.0 0.5 1.0 (1.0)    |
| olv6*                            | 0.0 0.25 0.0 (0.0)   |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 52.42 37.64 -1.17    |
| LAB*Lab                          | 52.42 37.64 -4.17    |
| LAB*Lab                          | 50.0 37.86 353.66    |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.445 0.454 -0.208 |
| lab*tch                      | 0.5 0.5 0.982      |
| lab*nch                      | 0.0 0.5 0.982      |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.445 0.454 -0.208 |
| lab*tce                      | 0.5 0.5 0.982      |
| lab*nce                      | 0.0 0.5 0.982      |

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olv3*                            | 0.5 0.5 0.5 (1.0) |
| olv4*                            | 0.5 0.5 0.5 (1.0) |
| olv5*                            | 1.0 1.0 1.0 (1.0) |
| olv6*                            | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*Lab                          | 48.13 75.18 -6.79 |
| LAB*Lab                          | 48.13 75.18 -8.35 |
| LAB*Lab                          | 50.0 75.73 353.66 |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.292 0.745 -0.082 |
| lab*tch                      | 0.375 0.75 0.982   |
| lab*nch                      | 0.0 0.75 0.982     |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.292 0.682 -0.312 |
| lab*tce                      | 0.375 0.75 0.982   |
| lab*nce                      | 0.0 0.75 0.982     |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.25 0.25 0.25 (1.0) |
| olv4*                            | 0.25 0.25 0.25 (1.0) |
| olv5*                            | 1.0 0.5 1.0 (1.0)    |
| olv6*                            | 0.0 0.25 0.0 (0.0)   |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 38.18 23.58 -14.6    |
| LAB*Lab                          | 38.18 23.58 -14.6    |
| LAB*Lab                          | 37.5 27.74 328.24    |

|                              |                      |
|------------------------------|----------------------|
| relative CIELAB lab*         |                      |
| lab*lab                      | 0.25 0.25 0.25 (1.0) |
| lab*tch                      | 0.25 0.25 0.912      |
| lab*nch                      | 0.0 0.25 0.912       |
| relative Natural Colour (NC) |                      |
| lab*trj                      | 0.25 0.25 0.912      |
| lab*tce                      | 0.25 0.25 0.912      |
| lab*nce                      | 0.0 0.25 0.912       |

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olv3*                            | 0.5 0.5 0.5 (1.0) |
| olv4*                            | 0.5 0.5 0.5 (1.0) |
| olv5*                            | 1.0 1.0 1.0 (1.0) |
| olv6*                            | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*Lab                          | 56.71 -0.24 2.14  |
| LAB*Lab                          | 56.71 0.0 0.0     |
| LAB*Lab                          | 55.0 0.01 -       |

|                              |             |
|------------------------------|-------------|
| relative CIELAB lab*         |             |
| lab*lab                      | 0.5 0.0 0.0 |
| lab*tch                      | 0.5 0.0 0.0 |
| lab*nch                      | 0.0 0.0 0.0 |
| relative Natural Colour (NC) |             |
| lab*trj                      | 0.5 0.0 0.0 |
| lab*tce                      | 0.5 0.0 0.0 |
| lab*nce                      | 0.0 0.0 0.0 |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.5 0.25 0.5 (1.0)   |
| olv4*                            | 0.25 0.25 0.25 (0.0) |
| olv5*                            | 1.0 0.5 1.0 (1.0)    |
| olv6*                            | 0.0 0.25 0.0 (0.0)   |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 44.89 18.8 -0.74     |
| LAB*Lab                          | 44.89 18.82 -2.08    |
| LAB*Lab                          | 37.5 18.94 353.66    |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.347 0.248 -0.027 |
| lab*tch                      | 0.375 0.25 0.982   |
| lab*nch                      | 0.0 0.25 0.982     |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.347 0.227 -0.103 |
| lab*tce                      | 0.375 0.25 0.982   |
| lab*nce                      | 0.0 0.25 0.982     |

|                                  |                    |
|----------------------------------|--------------------|
| relative Inform. Technology (IT) |                    |
| olv3*                            | 0.5 0.0 0.5 (1.0)  |
| olv4*                            | 0.5 0.0 0.5 (1.0)  |
| olv5*                            | 1.0 0.0 1.0 (1.0)  |
| olv6*                            | 0.0 0.0 0.0 (0.0)  |
| standard and adapted CIELAB      |                    |
| LAB*Lab                          | 33.07 37.84 -0.32  |
| LAB*Lab                          | 33.07 37.84 -4.17  |
| LAB*Lab                          | 25.01 37.86 353.66 |

|                              |                    |
|------------------------------|--------------------|
| relative CIELAB lab*         |                    |
| lab*lab                      | 0.195 0.497 -0.054 |
| lab*tch                      | 0.25 0.5 0.982     |
| lab*nch                      | 0.0 0.5 0.982      |
| relative Natural Colour (NC) |                    |
| lab*trj                      | 0.195 0.454 -0.208 |
| lab*tce                      | 0.25 0.5 0.982     |
| lab*nce                      | 0.0 0.5 0.982      |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.25 0.25 0.25 (1.0) |
| olv4*                            | 0.25 0.25 0.25 (1.0) |
| olv5*                            | 1.0 0.5 1.0 (1.0)    |
| olv6*                            | 0.0 0.25 0.0 (0.0)   |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 28.66 47.0 0.0       |
| LAB*Lab                          | 28.66 47.0 0.0       |
| LAB*Lab                          | 25.01 55.47 328.23   |

|                              |                  |
|------------------------------|------------------|
| relative CIELAB lab*         |                  |
| lab*lab                      | 0.3 0.425 -0.262 |
| lab*tch                      | 0.5 0.5 0.912    |
| lab*nch                      | 0.0 0.5 0.912    |
| relative Natural Colour (NC) |                  |
| lab*trj                      | 0.5 0.352 -0.354 |
| lab*tce                      | 0.5 0.5 0.912    |
| lab*nce                      | 0.0 0.5 0.912    |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.75 0.0 0.75 (1.0)  |
| olv4*                            | 0.25 0.75 0.25 (0.0) |
| olv5*                            | 1.0 0.5 1.0 (1.0)    |
| olv6*                            | 0.0 0.25 0.0 (0.0)   |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 52.51 47.18 -29.2    |
| LAB*Lab                          | 52.51 47.18 -29.2    |
| LAB*Lab                          | 50.0 55.49 328.23    |

|                              |                  |
|------------------------------|------------------|
| relative CIELAB lab*         |                  |
| lab*lab                      | 0.7 0.528 -0.532 |
| lab*tch                      | 0.625 0.75 0.874 |
| lab*nch                      | 0.0 0.75 0.874   |
| relative Natural Colour (NC) |                  |
| lab*trj                      | 0.7 0.528 -0.532 |
| lab*tce                      | 0.625 0.75 0.874 |
| lab*nce                      | 0.0 0.75 0.874   |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olv3*                            | 0.25 0.25 0.25 (1.0) |
| olv4*                            | 0.75 0.75 0.75 (1.0) |
| olv5*                            | 1.0 1.0 1.0 (1.0)    |
| olv6*                            | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*Lab                          | 37.36 37.84 0.63     |
| LAB*Lab                          | 37.36 0.0 0.0        |
| LAB*Lab                          | 25.0 0.01 -          |

|                              |              |
|------------------------------|--------------|
| relative CIELAB lab*         |              |
| lab*lab                      | 0.25 0.0 0.0 |
| lab*tch                      | 0.25 0.0 0.0 |
| lab*nch                      | 0.0 0.0 0.0  |
| relative Natural Colour (NC) |              |
| lab*trj                      | 0.25 0.0 0.0 |
| lab*tce                      | 0.25 0.0 0.0 |
| lab*nce                      | 0.0 0.0 0.0  |

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olv3*                            | 0.5 0.0 0.5 (1.0) |
| olv4*                            | 0.5 0.0 0.5 (1.0) |
| olv5*                            | 1.0 0.0 1.0 (1.0) |
| olv6*                            | 0.0 0.0 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*Lab                          | 33.07 37.84 -0.32 |
| LAB*Lab                          | 33.07 37.84 -4    |

## Input: Colorimetric Offset Reflective System ORS18

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

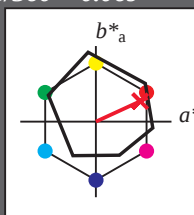
$lab \cdot tch$  and  $lab \cdot nch$

D50: hue R

LCH\*Ma: 48 75 25

olv\*Ma: 1.0 0.0 0.32

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

## ORS18; adapted (a) CIELAB data

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

% Regularity

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

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

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

## Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab \cdot h = 25/360 = 0.071$

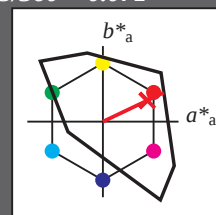
$lab \cdot tch$  and  $lab \cdot nch$

D50: hue R

LCH\*Ma: 52 89 25

olv\*Ma: 1.0 0.0 0.21

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 158$

## TLS00; adapted (a) CIELAB data

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

% Regularity

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

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

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

QE500-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart QE50; Colorimetric systems ORS18 & TLS00

input: `cmv0* setcmvcolor`

output: `cmv0* / 000n* setcmvcolor`

D50: 2 coordinate data of 5 step colour scales for 10 hues

## Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 92/360 = 0.255$

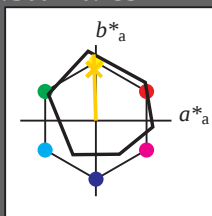
$lab^*tch$  and  $lab^*nch$

D50: hue J

LCH\*Ma: 86 88 92

olv\*Ma: 1.0 0.9 0.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

## ORS18; adapted (a) CIELAB data

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

% Regularity

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

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

relative Inform. Technology (IT)

|       |     |     |     |       |
|-------|-----|-----|-----|-------|
| olv3* | 1.0 | 1.0 | 1.0 | (1.0) |
| olv3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olv4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olv4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olv4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olv4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 95.41 | -0.98 | 75.5 |
| LAB*Lab | 95.41 | 0.0   | 0.0  |
| LAB*Lab | 95.41 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |     |       |      |       |
|-------|-----|-------|------|-------|
| olv3* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv3* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |      |       |       |
|---------|------|-------|-------|
| LAB*Lab | 93.1 | -1.64 | 26.52 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |

relative Inform. Technology (IT)

|       |     |       |      |       |
|-------|-----|-------|------|-------|
| olv3* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv3* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |      |       |       |
|---------|------|-------|-------|
| LAB*Lab | 93.1 | -1.64 | 26.52 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |

relative Inform. Technology (IT)

|       |     |       |      |       |
|-------|-----|-------|------|-------|
| olv3* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv3* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |      |       |       |
|---------|------|-------|-------|
| LAB*Lab | 93.1 | -1.64 | 26.52 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |

relative Inform. Technology (IT)

|       |     |       |      |       |
|-------|-----|-------|------|-------|
| olv3* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv3* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 1.0 | 0.975 | 0.75 | (1.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |
| olv4* | 0.0 | 0.025 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |      |       |       |
|---------|------|-------|-------|
| LAB*Lab | 93.1 | -1.64 | 26.52 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |
| LAB*Lab | 93.1 | -0.7  | 21.92 |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

relative Inform. Technology (IT)

|       |      |      |      |       |
|-------|------|------|------|-------|
| olv3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olv3* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 1.0  | 1.0  | 1.0  | (1.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |
| olv4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*Lab | 76.06 | -0.61 | 3.44 |
| LAB*Lab | 76.06 | 0.0   | 0.0  |
| LAB*Lab | 76.06 | 0.0   | 0.0  |

| relative CIELAB lab*         |       |        |       |
|------------------------------|-------|--------|-------|
| lab*lab                      | 0.881 | -0.031 | 0.999 |
| lab*tch                      | 0.5   | 1.0    | 0.255 |
| lab*nch                      | 0.0   | 1.0    | 0.255 |
| relative Natural Colour (NC) |       |        |       |
| lab*lrj                      | 0.881 | 0.0    | 1.0   |
| lab*tce                      | 0.5   | 1.0    | 0.25  |
| lab*nce                      | 0.0   | 1.0    | 0.25  |

## Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 164/360 = 0.457$

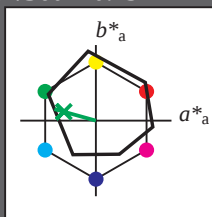
$lab^*tch$  and  $lab^*nch$

D50: hue G

LCH\*Ma: 53 57 164

olv\*Ma: 0.0 1.0 0.25

triangle lightness  $t^*$



## ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| olv3*   | 1.0 | 1.0 | 1.0 | (1.0) |
| olv4*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv5*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv6*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv7*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv8*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv9*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv10*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv11*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv12*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv13*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv14*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv15*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv16*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv17*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv18*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv19*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv20*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv21*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv22*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv23*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv24*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv25*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv26*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv27*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv28*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv29*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv30*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv31*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv32*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv33*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv34*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv35*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv36*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv37*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv38*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv39*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv40*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv41*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv42*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv43*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv44*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv45*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv46*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv47*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv48*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv49*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv50*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv51*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv52*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv53*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv54*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv55*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv56*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv57*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv58*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv59*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv60*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv61*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv62*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv63*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv64*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv65*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv66*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv67*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv68*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv69*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv70*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv71*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv72*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv73*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv74*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv75*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv76*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv77*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv78*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv79*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv80*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv81*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv82*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv83*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv84*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv85*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv86*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv87*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv88*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv89*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv90*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv91*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv92*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv93*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv94*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv95*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv96*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv97*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv98*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv99*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv100* | 0.0 | 0.0 | 0.0 | (0.0) |

relative Inform. Technology (IT)

|         |      |     |       |       |
|---------|------|-----|-------|-------|
| olv3*   | 0.75 | 1.0 | 0.812 | (1.0) |
| olv4*   | 0.25 | 0.0 | 0.188 | (0.0) |
| olv5*   | 0.75 | 1.0 | 0.812 | (1.0) |
| olv6*   | 0.25 | 0.0 | 0.188 | (0.0) |
| olv7*   | 0.75 | 1.0 | 0.812 | (1.0) |
| olv8*   | 0.25 | 0.0 | 0.188 | (0.0) |
| olv9*   | 0.75 | 1.0 | 0.812 | (1.0) |
| olv10*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv11*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv12*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv13*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv14*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv15*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv16*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv17*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv18*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv19*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv20*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv21*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv22*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv23*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv24*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv25*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv26*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv27*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv28*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv29*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv30*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv31*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv32*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv33*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv34*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv35*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv36*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv37*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv38*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv39*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv40*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv41*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv42*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv43*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv44*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv45*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv46*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv47*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv48*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv49*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv50*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv51*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv52*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv53*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv54*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv55*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv56*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv57*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv58*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv59*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv60*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv61*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv62*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv63*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv64*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv65*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv66*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv67*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv68*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv69*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv70*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv71*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv72*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv73*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv74*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv75*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv76*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv77*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv78*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv79*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv80*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv81*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv82*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv83*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv84*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv85*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv86*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv87*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv88*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv89*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv90*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv91*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv92*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv93*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv94*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv95*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv96*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv97*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv98*  | 0.25 | 0.0 | 0.188 | (0.0) |
| olv99*  | 0.75 | 1.0 | 0.812 | (1.0) |
| olv100* | 0.25 | 0.0 | 0.188 | (0.0) |

|                                     |       |        |        |
|-------------------------------------|-------|--------|--------|
| LAB*TCHa                            | 87.5  | 14.22  | 164.46 |
| <b>relative CIELAB lab*</b>         |       |        |        |
| lab*lab                             | 0.862 | -0.24  | 0.067  |
| lab*tch                             | 0.875 | 0.25   | 0.457  |
| lab*ncb                             | 0.0   | 0.25   | 0.457  |
| <b>relative Natural Colour (NC)</b> |       |        |        |
| lab*lrj                             | 0.862 | -0.249 | 0.0    |
| lab*tce                             | 0.875 | 0.25   | 0.5    |
| lab*nce                             | 0.0   | 0.25   | g00b   |

## Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 271/360 = 0.754$

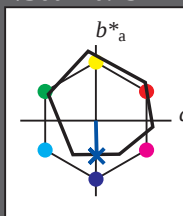
$lab^*tch$  and  $lab^*nch$

D50: hue B

LCH\*Ma: 42 45 271

olv\*Ma: 0.0 0.49 1.0

triangle lightness  $t^*$



## ORS18; adapted (a) CIELAB data

|                  | $L^*=L_a^*$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>  | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>  | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>  | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>  | 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          |

## %Regularity

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

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

relative Inform. Technology (IT)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| olv3*   | 1.0 | 1.0 | 1.0 | (1.0) |
| olv4*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv5*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv6*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv7*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv8*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv9*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv10*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv11*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv12*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv13*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv14*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv15*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv16*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv17*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv18*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv19*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv20*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv21*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv22*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv23*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv24*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv25*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv26*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv27*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv28*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv29*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv30*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv31*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv32*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv33*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv34*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv35*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv36*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv37*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv38*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv39*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv40*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv41*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv42*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv43*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv44*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv45*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv46*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv47*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv48*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv49*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv50*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv51*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv52*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv53*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv54*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv55*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv56*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv57*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv58*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv59*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv60*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv61*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv62*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv63*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv64*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv65*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv66*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv67*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv68*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv69*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv70*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv71*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv72*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv73*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv74*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv75*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv76*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv77*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv78*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv79*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv80*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv81*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv82*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv83*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv84*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv85*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv86*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv87*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv88*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv89*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv90*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv91*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv92*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv93*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv94*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv95*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv96*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv97*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv98*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv99*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv100* | 0.0 | 0.0 | 0.0 | (0.0) |

relative Inform. Technology (IT)

|         |      |      |      |       |
|---------|------|------|------|-------|
| olv3*   | 0.75 | 0.75 | 0.75 | (1.0) |
| olv4*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olv5*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olv6*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olv7*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olv8*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olv9*   | 0.25 | 0.25 | 0.25 | (0.0) |
| olv10*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv11*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv12*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv13*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv14*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv15*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv16*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv17*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv18*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv19*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv20*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv21*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv22*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv23*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv24*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv25*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv26*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv27*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv28*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv29*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv30*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv31*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv32*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv33*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv34*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv35*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv36*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv37*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv38*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv39*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv40*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv41*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv42*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv43*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv44*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv45*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv46*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv47*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv48*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv49*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv50*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv51*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv52*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv53*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv54*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv55*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv56*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv57*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv58*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv59*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv60*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv61*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv62*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv63*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv64*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv65*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv66*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv67*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv68*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv69*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv70*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv71*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv72*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv73*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv74*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv75*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv76*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv77*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv78*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv79*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv80*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv81*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv82*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv83*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv84*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv85*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv86*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv87*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv88*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv89*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv90*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv91*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv92*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv93*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv94*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv95*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv96*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv97*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv98*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv99*  | 0.25 | 0.25 | 0.25 | (0.0) |
| olv100* | 0.25 | 0.25 | 0.25 | (0.0) |

|                              |       |       |        |
|------------------------------|-------|-------|--------|
| LAB*ICHa 8/7.5 11.18 2/1.39  |       |       |        |
| relative CIELAB lab*         |       |       |        |
| lab*lab                      | 0.827 | 0.006 | -0.249 |
| lab*tch                      | 0.875 | 0.25  | 0.754  |
| lab*nc                       | 0.0   | 0.25  | 0.754  |
| relative Natural Colour (NC) |       |       |        |
| lab*lrj                      | 0.827 | 0.0   | -0.249 |
| lab*tce                      | 0.875 | 0.25  | 0.75   |
| lab*nce                      | 0.0   | 0.25  | g99b   |