

## Input: Colorimetric Offset Reflective System ORS18

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

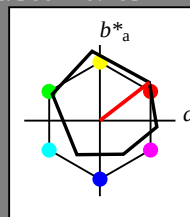
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



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

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

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

|                                  |                     |
|----------------------------------|---------------------|
| relative Inform. Technology (IT) |                     |
| olv3*                            | 1.0 0.75 0.75 (1.0) |
| olv4*                            | 0.0 0.25 0.25 (0.0) |
| olv5*                            | 1.0 0.75 0.75 (1.0) |
| olv6*                            | 0.0 0.25 0.25 (0.0) |
| olv7*                            | 1.0 0.75 0.75 (1.0) |
| olv8*                            | 0.0 0.25 0.25 (0.0) |
| olv9*                            | 1.0 0.75 0.75 (1.0) |
| olv10*                           | 0.0 0.25 0.25 (0.0) |
| olv11*                           | 1.0 0.75 0.75 (1.0) |
| olv12*                           | 0.0 0.25 0.25 (0.0) |
| olv13*                           | 1.0 0.75 0.75 (1.0) |
| olv14*                           | 0.0 0.25 0.25 (0.0) |
| olv15*                           | 1.0 0.75 0.75 (1.0) |
| olv16*                           | 0.0 0.25 0.25 (0.0) |
| olv17*                           | 1.0 0.75 0.75 (1.0) |
| olv18*                           | 0.0 0.25 0.25 (0.0) |
| olv19*                           | 1.0 0.75 0.75 (1.0) |
| olv20*                           | 0.0 0.25 0.25 (0.0) |
| olv21*                           | 1.0 0.75 0.75 (1.0) |
| olv22*                           | 0.0 0.25 0.25 (0.0) |
| olv23*                           | 1.0 0.75 0.75 (1.0) |
| olv24*                           | 0.0 0.25 0.25 (0.0) |
| olv25*                           | 1.0 0.75 0          |

|  |   |   |
|--|---|---|
|  | L | V |
|--|---|---|

## Input: Colorimetric Offset Reflective System ORS18

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

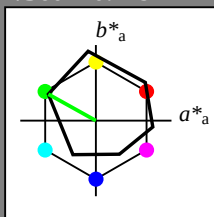
$lab \cdot tch$  and  $lab \cdot nch$

D65: 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

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

$g^*_{C,rel} = 179$

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  
relative Natural Colour (NC)  
lab\*trj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 0.0  
lab\*nce 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  
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\* 0.5 0.5 0.5 (0.0)  
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 50.00 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  
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\* 0.25 0.25 0.25 (0.0)  
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 0.83  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 25.00 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  
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\* 0.0 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 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.47  
LAB\*LABa 18.02 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)  
olv3\* 0.75 1.0 0.75 (1.0)  
cmyn3\* 0.25 0.0 0.25 (0.0)  
olv4\* 1.0 0.75 1.0 (1.0)  
cmyn4\* 0.25 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.28 -16.47 12.74  
LAB\*LABa 84.28 -15.69 8.74  
LAB\*LABb 97.5 15.91 150.91

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  
relative Natural Colour (NC)  
lab\*trj 0.856 -0.238 0.072  
lab\*tce 0.875 0.25 0.453  
lab\*nce 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\* 0.25 0.0 0.25 (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  
relative Natural Colour (NC)  
lab\*trj 0.616 -0.238 0.072  
lab\*tce 0.625 0.25 0.453  
lab\*nce 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olv4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 45.56 -15.73 10.13  
LAB\*LABa 45.56 -15.7 8.74  
LAB\*LABb 37.5 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  
relative Natural Colour (NC)  
lab\*trj 0.356 -0.238 0.072  
lab\*tce 0.375 0.25 0.453  
lab\*nce 0.25 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.5 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 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 34.46 -31.22 18.12  
LAB\*LABa 34.46 -31.2 18.12  
LAB\*LABb 26.24 -15.69 8.74

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  
relative Natural Colour (NC)  
lab\*trj 0.106 -0.238 0.072  
lab\*tce 0.125 0.25 0.453  
lab\*nce 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 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.47  
LAB\*LABa 18.02 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

$n^* = 0.50$

relative Inform. Technology (IT)  
olv3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.0 0.5 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 73.15 -31.96 20.73  
LAB\*LABa 73.15 -31.4 17.48  
LAB\*LABb 75.0 35.95 150.91

relative CIELAB lab\*  
lab\*lab 0.712 -0.436 0.243  
lab\*tch 0.75 0.5 0.419  
lab\*nch 0.0 0.5 0.419  
relative Natural Colour (NC)  
lab\*trj 0.712 -0.478 0.144  
lab\*tce 0.75 0.5 0.453  
lab\*nce 0.0 0.5 0.419

relative Inform. Technology (IT)  
olv3\* 0.25 0.75 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.81 -31.6 19.43  
LAB\*LABa 53.81 -31.4 17.48  
LAB\*LABb 50.0 35.95 150.91

relative CIELAB lab\*  
lab\*lab 0.462 -0.436 0.243  
lab\*tch 0.462 -0.436 0.243  
lab\*nch 0.0 0.419 0.419  
relative Natural Colour (NC)  
lab\*trj 0.462 -0.478 0.144  
lab\*tce 0.462 -0.436 0.243  
lab\*nce 0.25 0.5 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.75 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.51 53.92 150.91  
LAB\*LABa 37.51 53.92 150.91  
LAB\*LABb 37.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.319 -0.654 0.365  
lab\*tch 0.375 0.75 0.419  
lab\*nch 0.25 0.75 0.419  
relative Natural Colour (NC)  
lab\*trj 0.319 -0.717 0.217  
lab\*tce 0.375 0.75 0.453  
lab\*nce 0.25 0.75 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 26.24 -31.22 18.12  
LAB\*LABa 26.24 -31.2 18.12  
LAB\*LABb 26.24 -15.69 8.74

relative CIELAB lab\*  
lab\*lab 0.213 -0.436 0.243  
lab\*tch 0.25 0.5 0.419  
lab\*nch 0.0 0.5 0.419  
relative Natural Colour (NC)  
lab\*trj 0.213 -0.478 0.144  
lab\*tce 0.25 0.5 0.453  
lab\*nce 0.25 0.5 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 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.0 0.0

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\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

$n^* = 0.00$

%Regularity

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

$g^*_{C,rel} = 179$

relative Inform. Technology (IT)  
olv3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.0 0.5 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 62.02 -47.46 28.72  
LAB\*LABa 62.02 -47.1 26.21  
LAB\*LABb 62.5 53.92 150.91

relative CIELAB lab\*  
lab\*lab 0.569 -0.654 0.365  
lab\*tch 0.625 0.75 0.419  
lab\*nch 0.0 0.75 0.419  
relative Natural Colour (NC)  
lab\*trj 0.569 -0.717 0.217  
lab\*tce 0.625 0.75 0.453  
lab\*nce 0.0 0.75 0.419

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 50.9 -62.95 36.7  
LAB\*LABa 50.9 -62.81 34.95  
LAB\*LABb 50.0 71.89 150.91

relative CIELAB lab\*  
lab\*lab 0.425 -0.873 0.486  
lab\*tch 0.5 1.0 0.419  
lab\*nch 0.0 1.0 0.419  
relative Natural Colour (NC)  
lab\*trj 0.425 -0.956 0.289  
lab\*tce 0.5 1.0 0.419  
lab\*nce 0.0 1.0 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.51 53.92 150.91  
LAB\*LABa 37.51 53.92 150.91  
LAB\*LABb 37.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.319 -0.654 0.365  
lab\*tch 0.375 0.75 0.419  
lab\*nch 0.25 0.75 0.419  
relative Natural Colour (NC)  
lab\*trj 0.319 -0.717 0.217  
lab\*tce 0.375 0.75 0.453  
lab\*nce 0.25 0.75 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 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.0 0.0

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\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

%Regularity

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

$g^*_{C,rel} = 179$

relative Inform. Technology (IT)  
olv3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.0 0.5 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 62.02 -47.46 28.72  
LAB\*LABa 62.02 -47.1 26.21  
LAB\*LABb 62.5 53.92 150.91

relative CIELAB lab\*  
lab\*lab 0.569 -0.654 0.365  
lab\*tch 0.625 0.75 0.419  
lab\*nch 0.0 0.75 0.419  
relative Natural Colour (NC)  
lab\*trj 0.569 -0.717 0.217  
lab\*tce 0.625 0.75 0.453  
lab\*nce 0.0 0.75 0.419

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 50.9 -62.95 36.7  
LAB\*LABa 50.9 -62.81 34.95  
LAB\*LABb 50.0 71.89 150.91

relative CIELAB lab\*  
lab\*lab 0.425 -0.873 0.486  
lab\*tch 0.5 1.0 0.419  
lab\*nch 0.0 1.0 0.419  
relative Natural Colour (NC)  
lab\*trj 0.425 -0.956 0.289  
lab\*tce 0.5 1.0 0.419  
lab\*nce 0.0 1.0 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.25 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olv4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.51 53.92 150.91  
LAB\*LABa 37.51 53.92 150.91  
LAB\*LABb 37.5 17.98 150.91

relative CIELAB lab\*  
lab\*lab 0.319 -0.654 0.365  
lab\*tch 0.375 0.75 0.419  
lab\*nch 0.25 0.75 0.419  
relative Natural Colour (NC)  
lab\*trj 0.319 -0.717 0.217  
lab\*tce 0.375 0.75 0.453  
lab\*nce 0.25 0.75 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 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.0 0.0

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\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 1.0$

## Output: Colorimetric Television Luminous System TLS18

for hue  $h^* = lab \cdot h = 137/360 = 0.38$

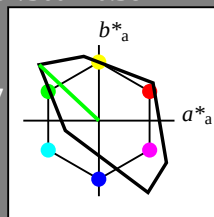
$lab \cdot tch$  and  $lab \cdot nch$

D65: hue L

LCH\*Ma: 84 108 137

olv\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



### TLS18; adapted (a) CIELAB data

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)  
olv3\* 1

### Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 236/360 = 0.656$

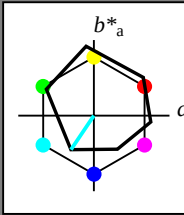
$lab^*tch$  and  $lab^*nch$

D65: hue C

LCH\*Ma: 59 54 236

olv\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



%Gamut

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

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

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



## Input: Colorimetric Offset Reflective System ORS18

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

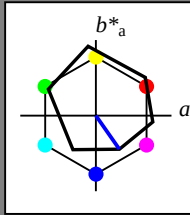
$lab^*tch$  and  $lab^*nch$

D65: hue V

LCH\*Ma: 26 54 305

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



$u^*_{rel} = 93$

## 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

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

$g^*_{C,rel} = 15.55$

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 4.75  
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\*trj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 0.0  
lab\*nce 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\*TCHa 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\* 0.5 0.5 0.5 (0.0)  
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\*TCHa 50.0 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\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
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 -0.38 0.83  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCHa 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\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 1.0 (1.0)  
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 0.0  
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\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

$n^* = 1.0$

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 77.99 7.12 -7.51  
LAB\*LABa 77.99 7.12 -11.09  
LAB\*TCHa 87.5 305.0

relative CIELAB lab\*  
lab\*lab 0.75 0.143 -0.204  
lab\*tch 0.875 0.25 0.847  
lab\*nch 0.0 0.25 0.847  
relative Natural Colour (NC)  
lab\*trj 0.775 0.112 -0.222  
lab\*tce 0.875 0.25 0.824  
lab\*nce 0.0 0.25 0.824

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 0.75 0.75 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 60.56 15.23 -19.79  
LAB\*LABa 60.56 15.23 -22.19  
LAB\*TCHa 75.0 27.1 305.0

relative CIELAB lab\*  
lab\*lab 0.55 0.287 -0.408  
lab\*tch 0.75 0.5 0.847  
lab\*nch 0.0 0.5 0.847  
relative Natural Colour (NC)  
lab\*trj 0.55 0.225 -0.446  
lab\*tce 0.75 0.5 0.824  
lab\*nce 0.0 0.5 0.824

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olv4\* 0.5 0.5 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 41.22 15.56 -22.1  
LAB\*LABa 41.22 15.56 -22.2  
LAB\*TCHa 50.0 27.1 305.0

relative CIELAB lab\*  
lab\*lab 0.3 0.225 -0.446  
lab\*tch 0.5 0.5 0.847  
lab\*nch 0.0 0.225 0.847  
relative Natural Colour (NC)  
lab\*trj 0.3 0.225 -0.446  
lab\*tce 0.5 0.5 0.824  
lab\*nce 0.0 0.225 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.5 0.5 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 21.87 15.57 -22.19  
LAB\*LABa 21.87 15.57 -22.19  
LAB\*TCHa 25.01 27.1 305.0

relative CIELAB lab\*  
lab\*lab 0.05 0.287 -0.408  
lab\*tch 0.25 0.5 0.847  
lab\*nch 0.0 0.5 0.847  
relative Natural Colour (NC)  
lab\*trj 0.05 0.225 -0.446  
lab\*tce 0.25 0.5 0.824  
lab\*nce 0.0 0.5 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.25 0.25 0.25 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.025 0.143 -0.204  
LAB\*LABa 0.025 0.143 -0.204  
LAB\*TCHa 0.0125 0.25 0.847

relative CIELAB lab\*  
lab\*lab 0.025 0.143 -0.204  
lab\*tch 0.125 0.25 0.847  
lab\*nch 0.0 0.25 0.847  
relative Natural Colour (NC)  
lab\*trj 0.025 0.112 -0.222  
lab\*tce 0.125 0.25 0.824  
lab\*nce 0.0 0.25 0.824

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 0.5 0.5 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 60.56 15.23 -19.79  
LAB\*LABa 60.56 15.23 -22.19  
LAB\*TCHa 75.0 27.1 305.0

relative CIELAB lab\*  
lab\*lab 0.55 0.287 -0.408  
lab\*tch 0.75 0.5 0.847  
lab\*nch 0.0 0.5 0.847  
relative Natural Colour (NC)  
lab\*trj 0.55 0.225 -0.446  
lab\*tce 0.75 0.5 0.824  
lab\*nce 0.0 0.5 0.824

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olv4\* 0.5 0.5 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 41.22 15.56 -22.1  
LAB\*LABa 41.22 15.56 -22.2  
LAB\*TCHa 50.0 27.1 305.0

relative CIELAB lab\*  
lab\*lab 0.3 0.225 -0.446  
lab\*tch 0.5 0.5 0.847  
lab\*nch 0.0 0.225 0.847  
relative Natural Colour (NC)  
lab\*trj 0.3 0.225 -0.446  
lab\*tce 0.5 0.5 0.824  
lab\*nce 0.0 0.225 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.5 0.5 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 21.87 15.57 -22.19  
LAB\*LABa 21.87 15.57 -22.19  
LAB\*TCHa 25.01 27.1 305.0

relative CIELAB lab\*  
lab\*lab 0.05 0.287 -0.408  
lab\*tch 0.25 0.5 0.847  
lab\*nch 0.0 0.5 0.847  
relative Natural Colour (NC)  
lab\*trj 0.05 0.225 -0.446  
lab\*tce 0.25 0.5 0.824  
lab\*nce 0.0 0.5 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.25 0.25 0.25 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.025 0.143 -0.204  
LAB\*LABa 0.025 0.143 -0.204  
LAB\*TCHa 0.0125 0.25 0.847

relative CIELAB lab\*  
lab\*lab 0.025 0.143 -0.204  
lab\*tch 0.125 0.25 0.847  
lab\*nch 0.0 0.25 0.847  
relative Natural Colour (NC)  
lab\*trj 0.025 0.112 -0.222  
lab\*tce 0.125 0.25 0.824  
lab\*nce 0.0 0.25 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.25 0.25 0.25 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 0.025 0.143 -0.204  
LAB\*LABa 0.025 0.143 -0.204  
LAB\*TCHa 0.0125 0.25 0.847

relative CIELAB lab\*  
lab\*lab 0.025 0.143 -0.204  
lab\*tch 0.125 0.25 0.847  
lab\*nch 0.0 0.25 0.847  
relative Natural Colour (NC)  
lab\*trj 0.025 0.112 -0.222  
lab\*tce 0.125 0.25 0.824  
lab\*nce 0.0 0.25 0.824

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olv4\* 0.25 0.25 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 43.14 23.34 -32.07  
LAB\*LABa 43.14 23.34 -32.29  
LAB\*TCHa 62.5 40.6 305.0

relative CIELAB lab\*  
lab\*lab 0.32 0.43 -0.613  
lab\*tch 0.625 0.75 0.847  
lab\*nch 0.0 0.75 0.847  
relative Natural Colour (NC)  
lab\*trj 0.325 0.337 -0.669  
lab\*tce 0.625 0.75 0.824  
lab\*nce 0.0 0.75 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.0 0.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 25.73 31.44 -44.34  
LAB\*LABa 25.73 31.44 -44.39  
LAB\*TCHa 50.0 54.21 305.0

relative CIELAB lab\*  
lab\*lab 0.1 0.573 -0.818  
lab\*tch 0.5 1.0 0.847  
lab\*nch 0.0 1.0 0.847  
relative Natural Colour (NC)  
lab\*trj 0.1 0.449 -0.892  
lab\*tce 0.5 1.0 0.824  
lab\*nce 0.0 1.0 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.0 0.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 23.8 23.71 -33.37  
LAB\*LABa 23.8 23.71 -33.29  
LAB\*TCHa 37.51 40.6 305.0

relative CIELAB lab\*  
lab\*lab 0.075 0.43 -0.613  
lab\*tch 0.375 0.75 0.847  
lab\*nch 0.0 0.75 0.847  
relative Natural Colour (NC)  
lab\*trj 0.075 0.337 -0.669  
lab\*tce 0.375 0.75 0.824  
lab\*nce 0.0 0.75 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.0 0.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 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\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.0 0.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 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\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 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\* 0.5 0.5 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*TCHa 75.0 0.01

relative CIELAB lab\*  
lab\*lab 0.5 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\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olv4\* 0.25 0.25 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LABa 56.72 0.0 0.0  
LAB\*TCHa 50.0 0.01

relative CIELAB lab\*  
lab\*lab 0.25 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\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.0 0.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 25.73 31.44 -44.34  
LAB\*LABa 25.73 31.44 -44.39  
LAB\*TCHa 50.0 54.21 305.0

relative CIELAB lab\*  
lab\*lab 0.1 0.573 -0.818  
lab\*tch 0.5 1.0 0.847  
lab\*nch 0.0 1.0 0.847  
relative Natural Colour (NC)  
lab\*trj 0.1 0.449 -0.892  
lab\*tce 0.5 1.0 0.824  
lab\*nce 0.0 1.0 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.0 0.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 23.8 23.71 -33.37  
LAB\*LABa 23.8 23.71 -33.29  
LAB\*TCHa 37.51 40.6 305.0

relative CIELAB lab\*  
lab\*lab 0.075 0.43 -0.613  
lab\*tch 0.375 0.75 0.847  
lab\*nch 0.0 0.75 0.847  
relative Natural Colour (NC)  
lab\*trj 0.075 0.337 -0.669  
lab\*tce 0.375 0.75 0.824  
lab\*nce 0.0 0.75 0.824

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 0.0 0.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 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\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

## Output: Colorimetric Television Luminous System TLS18

for hue  $h^* = lab^*h = 304/360 = 0.845$

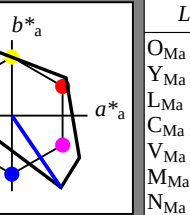
$lab^*tch$  and  $lab^*nch$

D65: hue V

LCH\*Ma: 35 115 304

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



$u^*_{rel} = 118$

## TLS18; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76       | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74       | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0        | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14       | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47       | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01       | 89.33   | -55.67  | 105.26       | 328          |
| 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       | 58.74   | 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

## Input: Colorimetric Offset Reflective System ORS18

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

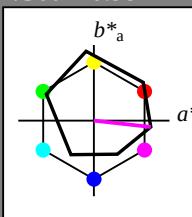
$lab^*tch$  and  $lab^*nch$

D65: hue M

LCH\*Ma: 48 76 354

olv\*Ma: 1.0 0.0 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)  
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 4.75  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 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\*trj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 0.0  
lab\*nce 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  
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\* 0.5 0.5 0.5 (0.0)  
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 50.00 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  
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\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
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 25.00 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  
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\* 0.0 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 0.0  
LAB\*LABa 18.02 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.75 1.0 (1.0)  
cmyn3\* 0.0 0.25 0.0 (0.0)  
olv4\* 1.0 0.75 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 83.59 18.05 1.87  
LAB\*LABa 83.59 18.01 2.08  
LAB\*LABb 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\* 0.75 0.5 0.75 (1.0)  
cmyn3\* 0.25 0.5 0.25 (0.0)  
olv4\* 1.0 0.75 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 64.24 18.43 0.56  
LAB\*LABa 64.24 18.82 2.08  
LAB\*LABb 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 0.25 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 0.25 0.25 0.982

relative Inform. Technology (IT)  
olv3\* 0.5 0.25 0.5 (1.0)  
cmyn3\* 0.5 0.75 0.5 (0.0)  
olv4\* 1.0 0.75 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 44.89 18.8 -0.74  
LAB\*LABa 44.89 18.82 2.08  
LAB\*LABb 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 0.25 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 0.5 0.25 0.982

relative Inform. Technology (IT)  
olv3\* 0.25 0.0 0.25 (1.0)  
cmyn3\* 0.75 1.0 0.75 (0.0)  
olv4\* 1.0 0.75 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 25.24 19.17 0.04  
LAB\*LABa 25.24 18.81 2.08  
LAB\*LABb 12.5 18.93 353.66

relative CIELAB lab\*  
lab\*lab 0.097 0.248 -0.027  
lab\*tch 0.125 0.25 0.982  
lab\*nch 0.0 0.25 0.982  
relative Natural Colour (NC)  
lab\*trj 0.097 0.227 -0.103  
lab\*tce 0.125 0.25 0.982  
lab\*nce 0.75 0.25 0.982

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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.5 1.0 (1.0)  
cmyn3\* 0.0 0.5 0.0 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.5 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 71.77 37.63 -4.17  
LAB\*LABa 71.77 37.63 -4.17  
LAB\*LABb 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\* 0.75 0.25 0.75 (1.0)  
cmyn3\* 0.25 0.75 0.25 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 52.42 37.68 -2.32  
LAB\*LABa 52.42 37.64 -4.17  
LAB\*LABb 50.0 37.86 353.66

relative CIELAB lab\*  
lab\*lab 0.542 0.497 -0.054  
lab\*tch 0.625 0.5 0.982  
lab\*nch 0.0 0.5 0.982  
relative Natural Colour (NC)  
lab\*trj 0.542 0.454 -0.208  
lab\*tce 0.625 0.5 0.982  
lab\*nce 0.0 0.5 0.982

relative Inform. Technology (IT)  
olv3\* 0.5 0.0 0.5 (1.0)  
cmyn3\* 0.5 0.75 0.5 (0.0)  
olv4\* 1.0 0.25 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 40.6 56.52 -5.21  
LAB\*LABa 40.6 56.45 -6.26  
LAB\*LABb 35.0 56.8 353.66

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 0.5 0.75 0.982

relative Inform. Technology (IT)  
olv3\* 0.25 0.0 0.25 (1.0)  
cmyn3\* 0.75 1.0 0.75 (0.0)  
olv4\* 1.0 0.25 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 33.07 37.84 -0.62  
LAB\*LABa 33.07 37.63 -4.17  
LAB\*LABb 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 0.5 0.5 0.982

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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.25 1.0 (1.0)  
cmyn3\* 0.0 0.25 0.0 (0.0)  
olv4\* 1.0 0.25 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 59.95 56.15 -3.9  
LAB\*LABa 59.95 56.45 -6.26  
LAB\*LABb 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\* 0.75 0.0 0.75 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 48.13 75.26 -8.35  
LAB\*LABa 48.13 75.26 -8.35  
LAB\*LABb 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\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.5 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 47.61 22.33 -13.91  
LAB\*LABa 47.61 22.33 -13.91  
LAB\*LABb 47.5 26.32 328.06

relative CIELAB lab\*  
lab\*lab 0.5 0.25 0.5 (0.0)  
lab\*tch 0.5 0.25 0.911  
lab\*nch 0.0 0.25 0.911  
relative Natural Colour (NC)  
lab\*trj 0.5 0.25 0.911  
lab\*tce 0.5 0.25 0.911  
lab\*nce 0.0 0.25 0.911

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 37.37 37.63 -4.17  
LAB\*LABa 37.37 37.63 -4.17  
LAB\*LABb 25.01 37.86 353.66

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.25 (1.0)  
lab\*tch 0.25 0.0 0.982  
lab\*nch 0.0 0.0 0.982  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.982  
lab\*tce 0.25 0.0 0.982  
lab\*nce 0.5 0.0 0.982

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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 75.0 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 0.75 0.0 0.0  
lab\*nch 0.25 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 0.0 0.75 (1.0)  
cmyn3\* 0.25 0.0 0.25 (0.0)  
olv4\* 1.0 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LABa 56.72 0.0 0.0  
LAB\*LABb 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.5 (0.0)  
lab\*tch 0.5 0.0 0.982  
lab\*nch 0.0 0.0 0.982  
relative Natural Colour (NC)  
lab\*trj 0.5 0.0 0.982  
lab\*tce 0.5 0.0 0.982  
lab\*nce 0.0 0.0 0.982

relative Inform. Technology (IT)  
olv3\* 0.5 0.25 0.5 (1.0)  
cmyn3\* 0.5 0.75 0.5 (0.0)  
olv4\* 1.0 0.25 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 47.61 22.33 -13.91  
LAB\*LABa 47.61 22.33 -13.91  
LAB\*LABb 47.5 26.32 328.06

relative CIELAB lab\*  
lab\*lab 0.5 0.25 0.5 (0.0)  
lab\*tch 0.5 0.25 0.911  
lab\*nch 0.0 0.25 0.911  
relative Natural Colour (NC)  
lab\*trj 0.5 0.25 0.911  
lab\*tce 0.5 0.25 0.911  
lab\*nce 0.0 0.25 0.911

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 37.37 37.63 -4.17  
LAB\*LABa 37.37 37.63 -4.17  
LAB\*LABb 25.01 37.86 353.66

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.25 (1.0)  
lab\*tch 0.25 0.0 0.982  
lab\*nch 0.0 0.0 0.982  
relative Natural Colour (NC)  
lab\*trj 0.25 0.0 0.982  
lab\*tce 0.25 0.0 0.982  
lab\*nce 0.5 0.0 0.982

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 18.03 0.0 0.0  
LAB\*LABa 18.03 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  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 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

## Input: Colorimetric Offset Reflective System ORS18

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

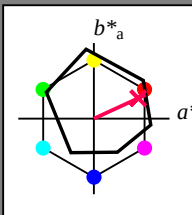
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 75 25

olv\*Ma: 1.0 0.0 0.32

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

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 4.75  
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\*trj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 0.0  
lab\*nce 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\*TCHa 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.847 0.227 0.104  
lab\*tch 0.875 0.25 0.069  
lab\*nch 0.0 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.847 0.25 0.0  
lab\*tce 0.875 0.25 0.0  
lab\*nce 0.0 0.25 0.069

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 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 0.597 0.227 0.104  
lab\*tch 0.625 0.25 0.069  
lab\*nch 0.25 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.597 0.25 0.0  
lab\*tce 0.625 0.25 0.0  
lab\*nce 0.25 0.25 0.069

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 0.0 0.0  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCHa 25.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.347 0.227 0.104  
lab\*tch 0.375 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.347 0.25 0.0  
lab\*tce 0.375 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 16.48 0.0 0.0  
LAB\*LABa 16.48 0.0 0.0  
LAB\*TCHa 12.50 0.01 -

relative CIELAB lab\*  
lab\*lab 0.194 0.227 0.104  
lab\*tch 0.225 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.194 0.25 0.0  
lab\*tce 0.225 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

## 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 0.5 0.661 (1.0)  
cmyn3\* 0.0 0.5 0.339 (0.0)  
olv4\* 1.0 0.5 0.661 (1.0)  
cmyn4\* 0.0 0.5 0.339 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 71.7 33.75 18.92  
LAB\*LABa 71.7 34.28 15.76  
LAB\*TCHa 75.0 37.73 24.7

relative CIELAB lab\*  
lab\*lab 0.694 0.454 0.209  
lab\*tch 0.75 0.5 0.069  
lab\*nch 0.0 0.5 0.069  
relative Natural Colour (NC)  
lab\*trj 0.694 0.5 0.0  
lab\*tce 0.75 0.5 0.0  
lab\*nce 0.0 0.5 0.069

relative Inform. Technology (IT)  
olv3\* 0.75 0.5 0.661 (1.0)  
cmyn3\* 0.25 0.5 0.339 (0.0)  
olv4\* 1.0 0.5 0.661 (1.0)  
cmyn4\* 0.0 0.5 0.339 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 59.85 51.12 26.01  
LAB\*LABa 59.85 52.66 24.7  
LAB\*TCHa 62.5 56.6 24.7

relative CIELAB lab\*  
lab\*lab 0.541 0.681 0.313  
lab\*tch 0.625 0.75 0.069  
lab\*nch 0.0 0.75 0.069  
relative Natural Colour (NC)  
lab\*trj 0.541 0.75 0.0  
lab\*tce 0.625 0.75 0.0  
lab\*nce 0.0 0.75 0.069

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 48.0 68.48 33.09  
LAB\*LABa 48.0 68.56 31.53  
LAB\*TCHa 50.0 75.47 24.7

relative CIELAB lab\*  
lab\*lab 0.388 0.908 0.418  
lab\*tch 0.5 1.0 0.069  
lab\*nch 0.0 1.0 0.069  
relative Natural Colour (NC)  
lab\*trj 0.388 1.0 0.0  
lab\*tce 0.5 1.0 0.069  
lab\*nce 0.0 1.0 0.069

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 33.01 34.49 16.37  
LAB\*LABa 33.01 34.28 15.77  
LAB\*TCHa 25.01 37.73 24.7

relative CIELAB lab\*  
lab\*lab 0.291 0.681 0.313  
lab\*tch 0.375 0.75 0.069  
lab\*nch 0.25 0.75 0.069  
relative Natural Colour (NC)  
lab\*trj 0.291 0.75 0.0  
lab\*tce 0.375 0.75 0.069  
lab\*nce 0.25 0.75 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.194 0.454 0.209  
lab\*tch 0.225 0.5 0.069  
lab\*nch 0.75 0.5 0.069  
relative Natural Colour (NC)  
lab\*trj 0.194 0.5 0.0  
lab\*tce 0.225 0.5 0.069  
lab\*nce 0.75 0.5 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.75 0.25 0.069  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.0  
lab\*nce 0.75 0.25 0.069

## Output: Colorimetric Television Luminous System TLS18

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

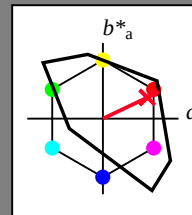
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 54 82 25

olv\*Ma: 1.0 0.0 0.14

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 118$

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\*trj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 0.0  
lab\*nce 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 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*TCHa 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.865 0.226 0.107  
lab\*tch 0.875 0.25 0.071  
lab\*nch 0.0 0.25 0.071  
relative Natural Colour (NC)  
lab\*trj 0.865 0.25 0.0  
lab\*tce 0.875 0.25 0.071  
lab\*nce 0.0 0.25 0.071

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 0.0 0.0  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.515 0.226 0.108  
lab\*tch 0.525 0.25 0.071  
lab\*nch 0.25 0.25 0.071  
relative Natural Colour (NC)  
lab\*trj 0.515 0.25 0.0  
lab\*tce 0.525 0.25 0.071  
lab\*nce 0.25 0.25 0.071

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 37.37 0.0 0.0  
LAB\*LABa 37.37 0.0 0.0  
LAB\*TCHa 25.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.365 0.226 0.108  
lab\*tch 0.375 0.25 0.071  
lab\*nch 0.75 0.25 0.071  
relative Natural Colour (NC)  
lab\*trj 0.365 0.25 0.0  
lab\*tce 0.375 0.25 0.071  
lab\*nce 0.75 0.25 0.071

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.071  
lab\*nch 0.75 0.25 0.071  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.071  
lab\*nce 0.75 0.25 0.071

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.071  
lab\*nch 0.75 0.25 0.071  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.071  
lab\*nce 0.75 0.25 0.071

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.071  
lab\*nch 0.75 0.25 0.071  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.071  
lab\*nce 0.75 0.25 0.071

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 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.071  
lab\*nch 0.75 0.25 0.071  
relative Natural Colour (NC)  
lab\*trj 0.097 0.25 0.0  
lab\*tce 0.125 0.25 0.071  
lab\*nce 0.75 0.25 0.071

## Input: Colorimetric Offset Reflective System ORS18

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

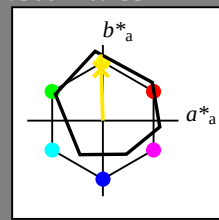
$lab^*tch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 86 88 92

olv\*Ma: 1.0 0.9 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\*TCMa 99.99 0.01 -

relative Inform. Technology (IT)  
olv3\* 1.0 0.975 0.75 (1.0)  
cmyn3\* 0.0 0.025 0.25 (0.0)  
olv4\* 1.0 0.975 0.75 (1.0)  
cmyn4\* 0.0 0.025 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 93.11 -1.64 26.52  
LAB\*LABa 93.11 -0.7 21.92  
LAB\*TCMa 97.5 21.93 91.85

relative Inform. Technology (IT)  
olv3\* 1.0 0.951 0.5 (1.0)  
cmyn3\* 0.0 0.049 0.5 (0.0)  
olv4\* 1.0 0.951 0.5 (1.0)  
cmyn4\* 0.0 0.049 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 90.8 -2.3 48.29  
LAB\*LABa 90.8 -1.4 43.84  
LAB\*TCMa 75.0 43.86 91.85

relative Inform. Technology (IT)  
olv3\* 1.0 0.926 0.25 (1.0)  
cmyn3\* 0.0 0.074 0.25 (0.0)  
olv4\* 1.0 0.926 0.25 (1.0)  
cmyn4\* 0.0 0.074 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 88.49 -2.96 70.05  
LAB\*LABa 88.49 -2.1 65.76  
LAB\*TCMa 62.5 65.79 91.84

relative Inform. Technology (IT)  
olv3\* 1.0 0.901 0.0 (1.0)  
cmyn3\* 0.0 0.099 1.0 (0.0)  
olv4\* 1.0 0.902 0.0 (1.0)  
cmyn4\* 0.0 0.098 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 86.15 -3.62 91.81  
LAB\*LABa 86.15 -2.81 87.87  
LAB\*TCMa 50.0 87.72 91.84

relative Inform. Technology (IT)  
olv3\* 0.911 0.0 0.5 (0.5)  
cmyn3\* 0.0 0.625 0.75 (0.75)  
olv4\* 0.911 0.0 0.5 (0.5)  
cmyn4\* 0.0 0.625 0.75 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 81.45 -1.92 46.98  
LAB\*LABa 81.45 -1.4 43.84  
LAB\*TCMa 50.0 43.87 91.84

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.0 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\*TCMa 75.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.75 0.725 0.5 (1.0)  
cmyn3\* 0.0 0.275 0.5 (0.0)  
olv4\* 1.0 0.725 0.5 (1.0)  
cmyn4\* 0.0 0.275 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 73.75 -1.27 25.22  
LAB\*LABa 73.75 -0.69 21.92  
LAB\*TCMa 62.5 21.93 91.84

relative Inform. Technology (IT)  
olv3\* 0.75 0.701 0.25 (1.0)  
cmyn3\* 0.0 0.299 0.75 (0.0)  
olv4\* 1.0 0.701 0.25 (1.0)  
cmyn4\* 0.0 0.299 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 71.45 -1.92 46.98  
LAB\*LABa 71.45 -1.4 43.84  
LAB\*TCMa 50.0 43.87 91.84

relative Inform. Technology (IT)  
olv3\* 0.75 0.676 0.0 (1.0)  
cmyn3\* 0.0 0.324 1.0 (0.0)  
olv4\* 1.0 0.676 0.0 (1.0)  
cmyn4\* 0.0 0.324 1.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 69.14 -2.58 68.74  
LAB\*LABa 69.14 -2.1 65.76  
LAB\*TCMa 37.51 65.79 91.84

relative Inform. Technology (IT)  
olv3\* 0.911 0.0 0.5 (0.5)  
cmyn3\* 0.0 0.625 0.75 (0.75)  
olv4\* 0.911 0.0 0.5 (0.5)  
cmyn4\* 0.0 0.625 0.75 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 81.45 -1.92 46.98  
LAB\*LABa 81.45 -1.4 43.84  
LAB\*TCMa 50.0 43.87 91.84

relative Inform. Technology (IT)  
olv3\* 0.75 0.658 0.25 (1.0)  
cmyn3\* 0.0 0.342 0.75 (0.0)  
olv4\* 1.0 0.658 0.25 (1.0)  
cmyn4\* 0.0 0.342 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 71.05 -1.58 39.26  
LAB\*LABa 71.05 -1.38 39.26  
LAB\*TCMa 50.0 39.29 92.31

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.0 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\*TCMa 50.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.5 0.475 0.25 (1.0)  
cmyn3\* 0.0 0.525 0.75 (0.0)  
olv4\* 1.0 0.475 0.25 (1.0)  
cmyn4\* 0.0 0.525 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 54.4 -0.89 23.91  
LAB\*LABa 54.4 -0.69 21.92  
LAB\*TCMa 37.5 21.93 91.84

relative Inform. Technology (IT)  
olv3\* 0.5 0.451 0.0 (1.0)  
cmyn3\* 0.0 0.549 1.0 (0.0)  
olv4\* 1.0 0.451 0.0 (1.0)  
cmyn4\* 0.0 0.549 1.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 52.1 -1.39 43.85  
LAB\*LABa 52.1 -1.39 43.85  
LAB\*TCMa 25.01 43.86 91.84

relative Inform. Technology (IT)  
olv3\* 0.661 0.0 0.5 (0.5)  
cmyn3\* 0.0 0.375 0.75 (0.75)  
olv4\* 0.661 0.0 0.5 (0.5)  
cmyn4\* 0.0 0.375 0.75 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 61.45 -1.92 46.98  
LAB\*LABa 61.45 -1.4 43.84  
LAB\*TCMa 37.51 65.79 91.84

relative Inform. Technology (IT)  
olv3\* 0.911 0.0 0.5 (0.5)  
cmyn3\* 0.0 0.625 0.75 (0.75)  
olv4\* 0.911 0.0 0.5 (0.5)  
cmyn4\* 0.0 0.625 0.75 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 81.45 -1.92 46.98  
LAB\*LABa 81.45 -1.4 43.84  
LAB\*TCMa 50.0 43.87 91.84

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.0 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 -0.38 0.83  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCMa 25.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.25 0.225 0.25 (1.0)  
cmyn3\* 0.0 0.775 0.75 (0.0)  
olv4\* 1.0 0.225 0.25 (1.0)  
cmyn4\* 0.0 0.775 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 35.06 -0.52 22.69  
LAB\*LABa 35.06 -0.69 21.91  
LAB\*TCMa 12.5 21.92 91.83

relative Inform. Technology (IT)  
olv3\* 0.25 0.201 0.0 (1.0)  
cmyn3\* 0.0 0.799 1.0 (0.0)  
olv4\* 1.0 0.201 0.0 (1.0)  
cmyn4\* 0.0 0.799 1.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.15 -1.45 45.71  
LAB\*LABa 32.15 -1.45 45.71  
LAB\*TCMa 12.5 45.72 91.83

relative Inform. Technology (IT)  
olv3\* 0.44 0.0 0.5 (0.5)  
cmyn3\* 0.0 0.559 0.75 (0.75)  
olv4\* 0.44 0.0 0.5 (0.5)  
cmyn4\* 0.0 0.559 0.75 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 61.45 -1.92 46.98  
LAB\*LABa 61.45 -1.4 43.84  
LAB\*TCMa 37.51 65.79 91.84

relative Inform. Technology (IT)  
olv3\* 0.75 0.676 0.0 (1.0)  
cmyn3\* 0.0 0.324 1.0 (0.0)  
olv4\* 0.75 0.676 0.0 (1.0)  
cmyn4\* 0.0 0.324 1.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 69.14 -2.58 68.74  
LAB\*LABa 69.14 -2.1 65.76  
LAB\*TCMa 37.51 65.79 91.84

relative Inform. Technology (IT)  
olv3\* 0.5 0.475 0.25 (1.0)  
cmyn3\* 0.0 0.525 0.75 (0.0)  
olv4\* 0.5 0.475 0.25 (1.0)  
cmyn4\* 0.0 0.525 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 54.4 -0.89 23.91  
LAB\*LABa 54.4 -0.69 21.92  
LAB\*TCMa 37.5 21.93 91.84

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (0.0)  
cmyn3\* 1.0 1.0 1.0 (1.0)  
olv4\* 0.0 0.0 0.0 (0.0)  
cmyn4\* 1.0 1.0 1.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.



## Input: Colorimetric Offset Reflective System ORS18

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

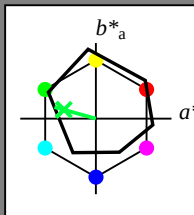
$lab^*tch$  and  $lab^*nch$

D65: 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*   | 0.0 | 0.0 | 0.0 |
| olv4*   | 0.0 | 0.0 | 0.0 |
| olv5*   | 0.0 | 0.0 | 0.0 |
| olv6*   | 0.0 | 0.0 | 0.0 |
| olv7*   | 0.0 | 0.0 | 0.0 |
| olv8*   | 0.0 | 0.0 | 0.0 |
| olv9*   | 0.0 | 0.0 | 0.0 |
| olv10*  | 0.0 | 0.0 | 0.0 |
| olv11*  | 0.0 | 0.0 | 0.0 |
| olv12*  | 0.0 | 0.0 | 0.0 |
| olv13*  | 0.0 | 0.0 | 0.0 |
| olv14*  | 0.0 | 0.0 | 0.0 |
| olv15*  | 0.0 | 0.0 | 0.0 |
| olv16*  | 0.0 | 0.0 | 0.0 |
| olv17*  | 0.0 | 0.0 | 0.0 |
| olv18*  | 0.0 | 0.0 | 0.0 |
| olv19*  | 0.0 | 0.0 | 0.0 |
| olv20*  | 0.0 | 0.0 | 0.0 |
| olv21*  | 0.0 | 0.0 | 0.0 |
| olv22*  | 0.0 | 0.0 | 0.0 |
| olv23*  | 0.0 | 0.0 | 0.0 |
| olv24*  | 0.0 | 0.0 | 0.0 |
| olv25*  | 0.0 | 0.0 | 0.0 |
| olv26*  | 0.0 | 0.0 | 0.0 |
| olv27*  | 0.0 | 0.0 | 0.0 |
| olv28*  | 0.0 | 0.0 | 0.0 |
| olv29*  | 0.0 | 0.0 | 0.0 |
| olv30*  | 0.0 | 0.0 | 0.0 |
| olv31*  | 0.0 | 0.0 | 0.0 |
| olv32*  | 0.0 | 0.0 | 0.0 |
| olv33*  | 0.0 | 0.0 | 0.0 |
| olv34*  | 0.0 | 0.0 | 0.0 |
| olv35*  | 0.0 | 0.0 | 0.0 |
| olv36*  | 0.0 | 0.0 | 0.0 |
| olv37*  | 0.0 | 0.0 | 0.0 |
| olv38*  | 0.0 | 0.0 | 0.0 |
| olv39*  | 0.0 | 0.0 | 0.0 |
| olv40*  | 0.0 | 0.0 | 0.0 |
| olv41*  | 0.0 | 0.0 | 0.0 |
| olv42*  | 0.0 | 0.0 | 0.0 |
| olv43*  | 0.0 | 0.0 | 0.0 |
| olv44*  | 0.0 | 0.0 | 0.0 |
| olv45*  | 0.0 | 0.0 | 0.0 |
| olv46*  | 0.0 | 0.0 | 0.0 |
| olv47*  | 0.0 | 0.0 | 0.0 |
| olv48*  | 0.0 | 0.0 | 0.0 |
| olv49*  | 0.0 | 0.0 | 0.0 |
| olv50*  | 0.0 | 0.0 | 0.0 |
| olv51*  | 0.0 | 0.0 | 0.0 |
| olv52*  | 0.0 | 0.0 | 0.0 |
| olv53*  | 0.0 | 0.0 | 0.0 |
| olv54*  | 0.0 | 0.0 | 0.0 |
| olv55*  | 0.0 | 0.0 | 0.0 |
| olv56*  | 0.0 | 0.0 | 0.0 |
| olv57*  | 0.0 | 0.0 | 0.0 |
| olv58*  | 0.0 | 0.0 | 0.0 |
| olv59*  | 0.0 | 0.0 | 0.0 |
| olv60*  | 0.0 | 0.0 | 0.0 |
| olv61*  | 0.0 | 0.0 | 0.0 |
| olv62*  | 0.0 | 0.0 | 0.0 |
| olv63*  | 0.0 | 0.0 | 0.0 |
| olv64*  | 0.0 | 0.0 | 0.0 |
| olv65*  | 0.0 | 0.0 | 0.0 |
| olv66*  | 0.0 | 0.0 | 0.0 |
| olv67*  | 0.0 | 0.0 | 0.0 |
| olv68*  | 0.0 | 0.0 | 0.0 |
| olv69*  | 0.0 | 0.0 | 0.0 |
| olv70*  | 0.0 | 0.0 | 0.0 |
| olv71*  | 0.0 | 0.0 | 0.0 |
| olv72*  | 0.0 | 0.0 | 0.0 |
| olv73*  | 0.0 | 0.0 | 0.0 |
| olv74*  | 0.0 | 0.0 | 0.0 |
| olv75*  | 0.0 | 0.0 | 0.0 |
| olv76*  | 0.0 | 0.0 | 0.0 |
| olv77*  | 0.0 | 0.0 | 0.0 |
| olv78*  | 0.0 | 0.0 | 0.0 |
| olv79*  | 0.0 | 0.0 | 0.0 |
| olv80*  | 0.0 | 0.0 | 0.0 |
| olv81*  | 0.0 | 0.0 | 0.0 |
| olv82*  | 0.0 | 0.0 | 0.0 |
| olv83*  | 0.0 | 0.0 | 0.0 |
| olv84*  | 0.0 | 0.0 | 0.0 |
| olv85*  | 0.0 | 0.0 | 0.0 |
| olv86*  | 0.0 | 0.0 | 0.0 |
| olv87*  | 0.0 | 0.0 | 0.0 |
| olv88*  | 0.0 | 0.0 | 0.0 |
| olv89*  | 0.0 | 0.0 | 0.0 |
| olv90*  | 0.0 | 0.0 | 0.0 |
| olv91*  | 0.0 | 0.0 | 0.0 |
| olv92*  | 0.0 | 0.0 | 0.0 |
| olv93*  | 0.0 | 0.0 | 0.0 |
| olv94*  | 0.0 | 0.0 | 0.0 |
| olv95*  | 0.0 | 0.0 | 0.0 |
| olv96*  | 0.0 | 0.0 | 0.0 |
| olv97*  | 0.0 | 0.0 | 0.0 |
| olv98*  | 0.0 | 0.0 | 0.0 |
| olv99*  | 0.0 | 0.0 | 0.0 |
| olv100* | 0.0 | 0.0 | 0.0 |

relative Inform. Technology (IT)

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

**relative Inform. Technology (IT)**

|       |     |     |       |     |
|-------|-----|-----|-------|-----|
| olv3* | 0.5 | 1.0 | 0.623 | 1.0 |
| olv4* | 0.5 | 0.0 | 0.377 | 0.0 |
| olv4* | 0.5 | 1.0 | 0.623 | 1.0 |
| olv4* | 0.5 | 0.0 | 0.377 | 0.0 |
| olv4* | 0.5 | 0.0 | 0.377 | 0.0 |

**standard and adapted CIELAB**

|                       |      |        |       |
|-----------------------|------|--------|-------|
| LAB*LAB               | 74.1 | -27.98 | 10.92 |
| LAB*Lab <sub>a</sub>  | 74.1 | -27.4  | 7.6   |
| LAB*TC <sub>h</sub> a | 75.0 | 28.45  | 164.4 |

**relative CIELAB lab\***

|                  |       |        |       |
|------------------|-------|--------|-------|
| lab*lab          | 0.725 | -0.481 | 0.134 |
| lab*lab*         | 0.0   | 0.5    | 0.457 |
| lab* <i>n</i> ch | 0.0   | 0.5    | 0.457 |

**relative Natural Colour (NC)**

|                  |       |        |      |
|------------------|-------|--------|------|
| lab*lrj          | 0.725 | -0.499 | 0.0  |
| lab* <i>t</i> ce | 0.75  | 0.5    | 0.5  |
| lab* <i>n</i> CE | 0.0   | 0.5    | g00b |

