

## Input: Colorimetric Offset Reflective System ORS18

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

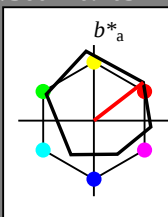
$lab \cdot tch$  and  $lab \cdot nch$

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

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

|                                         |       |       |       |       |
|-----------------------------------------|-------|-------|-------|-------|
| <b>relative Inform. Technology (IT)</b> |       |       |       |       |
| olv3*                                   | 0.75  | 0.5   | 0.5   | (1.0) |
| olv3*                                   | 0.25  | 0.5   | 0.5   | (0.0) |
| olv4*                                   | 1.0   | 0.75  | 0.75  | 0.75  |
| olv4*                                   | 0.0   | 0.25  | 0.25  | 0.25  |
| <b>standard and adapted CIELAB</b>      |       |       |       |       |
| LAB*LAB                                 | 64.19 | 15.96 | 15.28 |       |
| LAB*LAB                                 | 64.19 | 16.35 | 12.63 |       |
| LAB*TCiHa                               | 62.5  | 20.66 | 37.69 |       |
| <b>relative CIELAB lab*</b>             |       |       |       |       |
| lab*lab                                 | 0.597 | 0.198 | 0.153 |       |
| lab*tcH                                 | 0.625 | 0.25  | 0.105 |       |
| lab*b*ncH                               | 0.25  | 0.25  | 0.105 |       |
| <b>relative Natural Colour (NC)</b>     |       |       |       |       |
| lab*lrj                                 | 0.597 | 0.239 | 0.175 |       |
| lab*lrj                                 | 0.25  | 0.75  | 0.48  |       |
| lab*tcF                                 | 0.925 | 0.25  | 0.191 |       |

## Input: Colorimetric Offset Reflective System ORS18

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

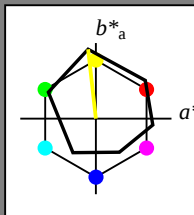
$lab^*tch$  and  $lab^*nch$

D65: hue Y

LCH\*Ma: 90 92 96

olv\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



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 0.984 -0.027 0.248  
lab\*tch 0.875 0.25 0.268  
lab\*nch 0.0 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.984 -0.024 0.249  
lab\*tce 0.875 0.25 0.268  
lab\*nce 0.0 0.25 0.268

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\*LABb 50.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.734 -0.024 0.248  
lab\*tch 0.625 0.25 0.268  
lab\*nch 0.25 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.734 -0.024 0.249  
lab\*tce 0.625 0.25 0.268  
lab\*nce 0.25 0.25 0.268

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

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

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.36 -0.36 0.68  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 25.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (1.0)  
lab\*tch 0.375 0.25 0.268  
lab\*nch 0.75 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.484 -0.024 0.249  
lab\*tce 0.375 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 -0.36 0.68  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 25.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (1.0)  
lab\*tch 0.375 0.25 0.268  
lab\*nch 0.75 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.484 -0.024 0.249  
lab\*tce 0.375 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

## 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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

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

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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.625 0.25 0.268  
lab\*nch 0.25 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*tce 0.625 0.25 0.268  
lab\*nce 0.25 0.25 0.268

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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

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

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (1.0)  
lab\*tch 0.375 0.25 0.268  
lab\*nch 0.75 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.484 -0.024 0.249  
lab\*tce 0.375 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (1.0)  
lab\*tch 0.375 0.25 0.268  
lab\*nch 0.75 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.484 -0.024 0.249  
lab\*tce 0.375 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 92.88 -3.12 27.6  
LAB\*LABa 92.88 -3.12 27.6  
LAB\*LABb 94.14 -2.56 22.93  
LAB\*LABc 97.5 23.07 96.38

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

## Output: Colorimetric Television Luminous System TLS18

for hue  $h^* = lab^*h = 103/360 = 0.287$

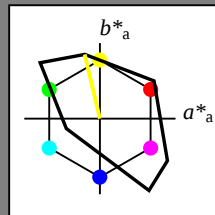
$lab^*tch$  and  $lab^*nch$

D65: hue Y

LCH\*Ma: 93 87 103

olv\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



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

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
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\*LABb 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.75 0.75 0.75 (1.0)  
lab\*tch 0.625 0.25 0.268  
lab\*nch 0.25 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*tce 0.625 0.25 0.268  
lab\*nce 0.25 0.25 0.268

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 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 75.00 0.01 -

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

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (1.0)  
lab\*tch 0.375 0.25 0.268  
lab\*nch 0.75 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.484 -0.024 0.249  
lab\*tce 0.375 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.25 0.25 0.25 (1.0)  
lab\*tch 0.375 0.25 0.268  
lab\*nch 0.75 0.25 0.268  
relative Natural Colour (NC)  
lab\*trj 0.484 -0.024 0.249  
lab\*tce 0.375 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

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 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 75.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.234 -0.027 0.248  
lab\*tch 0.125 0.25 0.268  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.234 -0.024 0.249  
lab\*tce 0.125 0.25 0.268  
lab\*nce 0.75 0.25 0.268

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\*

## Input: Colorimetric Offset Reflective System ORS18

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

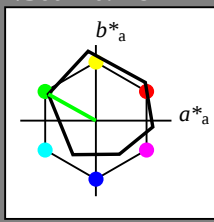
$lab \cdot tch$  and  $lab \cdot nch$

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

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

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

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 -9.98 47.5  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCHa 99.99 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*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 0.856 -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 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\*TCHa 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 0.25 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 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 0.616 -0.217 0.122  
lab\*tch 0.625 0.25 0.419  
lab\*nch 0.0 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 0.0 0.25 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\*TCHa 50.0 35.95 150.91

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\* 0.0 1.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olv4\* 0.0 1.0 0.0 (1.0)  
cmyn4\* 1.0 0.0 1.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 62.02 -47.46 28.72  
LAB\*LABa 62.02 -47.11 26.21  
LAB\*TCHa 62.5 53.92 150.91

relative CIELAB lab\*  
lab\*lab 0.369 -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 0.369 -0.956 0.289  
lab\*tce 0.5 1.0 0.453  
lab\*nce 0.0 1.0 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 0.25 1.0 0.25 (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\*TCHa 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 0.453  
lab\*nce 0.0 1.0 0.419

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 -0.38 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCHa 25.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.356 -0.217 0.122  
lab\*tch 0.375 0.25 0.419  
lab\*nch 0.0 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 0.0 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 0.25 1.0 0.25 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 34.46 -31.22 18.12  
LAB\*LABa 34.46 -31.4 17.48  
LAB\*TCHa 37.51 53.92 150.91

relative CIELAB lab\*  
lab\*lab 0.319 -0.654 0.365  
lab\*tch 0.375 0.75 0.419  
lab\*nch 0.0 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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.0 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 0.0 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.25 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 0.5 0.5 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 26.24 -25.8 8.82  
LAB\*LABa 26.24 -15.69 8.74  
LAB\*TCHa 12.5 17.97 150.91

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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.0 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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.0 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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.0 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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.0 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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.0 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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 18.02 0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.106 -0.217 0.121  
lab\*tch 0.125 0.25 0.419  
lab\*nch 0.0 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 0.0 0.25 0.419

NE510-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

## Output: Colorimetric Television Luminous System TLS18

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

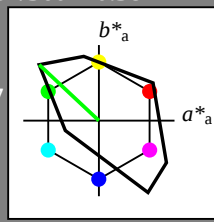
$lab \cdot tch$  and  $lab \cdot nch$

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\* 1.0 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 75.0 0.01 -

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 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\*TCHa 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 0.25 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 56.70 0.0 0.0  
LAB\*LABa 56.70 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.616 -0.217 0.122  
lab\*tch 0.625 0.25 0.419  
lab\*nch 0.0 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 0.0 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 0.25 1.0 0.25 (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\*TCHa 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 0.453  
lab\*nce 0.0 1.0 0.419

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 -0.38 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCHa 25.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.356 -0.217 0.122  
lab\*tch 0.375 0.25 0.419  
lab\*nch 0.0 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 0.0 0.25 0.419

relative Inform. Technology (IT)  
olv3\* 0.0 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 0.25 1.0 0.25 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 34.46 -31.22 18.12  
LAB\*LABa 34.46 -31.4 17.48  
LAB\*TCHa 37.51 53.92 150.91

relative CIELAB lab\*  
lab\*lab 0.319 -0.654 0.365  
lab\*tch 0.375 0.75 0.419  
lab\*nch 0.0 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 0.0 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 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0

# Input: Colorimetric Offset Reflective System ORS18

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

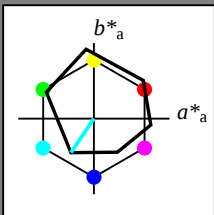
$lab^*tch$  and  $lab^*nch$

D65: hue C

LCH\*Ma: 59 54 236

olv\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



relative Inform. Technology (IT)  
 olv3\* 1.0 1.0 1.0 (1.0)  
 cmyn3\* 0.0 0.0 0.0 (0.0)  
 olv4\* 1.0 1.0 1.0 1.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 95.41 -0.98 47.5  
 LAB\*LABa 95.41 0.0 0.0  
 LAB\*TCHa 99.99 0.01 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\*trc 1.0 0.0 0.0  
 lab\*ncc 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 0.75  
 cmyn4\* 0.0 0.0 0.0 0.25  
 standard and adapted CIELAB  
 LAB\*LAB 76.06 -0.61 3.44  
 LAB\*LABa 76.06 0.0 0.0  
 LAB\*TCHa 75.0 0.01 0.0

relative CIELAB lab\*  
 lab\*lab 0.881 -0.139 -0.206  
 lab\*tch 0.875 0.25 0.656  
 lab\*nch 0.0 0.25 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.881 -0.123 -0.216  
 lab\*trc 0.875 0.25 0.567  
 lab\*ncc 0.0 0.25 0.656

relative Inform. Technology (IT)  
 olv3\* 0.75 0.75 0.75 (1.0)  
 cmyn3\* 0.25 0.25 0.25 (0.0)  
 olv4\* 1.0 1.0 1.0 0.5  
 cmyn4\* 0.0 0.0 0.0 0.5  
 standard and adapted CIELAB  
 LAB\*LAB 56.71 -0.24 2.14  
 LAB\*LABa 56.71 0.0 0.0  
 LAB\*TCHa 50.0 0.01 0.0

relative CIELAB lab\*  
 lab\*lab 0.631 -0.123 -0.216  
 lab\*tch 0.625 0.25 0.567  
 lab\*nch 0.0 0.25 0.567  
 relative Natural Colour (NC)  
 lab\*trj 0.631 -0.123 -0.216  
 lab\*trc 0.625 0.25 0.567  
 lab\*ncc 0.0 0.25 0.567

relative Inform. Technology (IT)  
 olv3\* 0.5 0.5 0.5 (0.0)  
 cmyn3\* 0.5 0.5 0.5 (0.0)  
 olv4\* 1.0 1.0 1.0 0.25  
 cmyn4\* 0.0 0.0 0.0 0.25  
 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 0.0

relative CIELAB lab\*  
 lab\*lab 0.31 -0.123 -0.216  
 lab\*tch 0.31 0.25 0.567  
 lab\*nch 0.0 0.25 0.567  
 relative Natural Colour (NC)  
 lab\*trj 0.31 -0.123 -0.216  
 lab\*trc 0.31 0.25 0.567  
 lab\*ncc 0.0 0.25 0.567

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 0.25  
 cmyn4\* 0.0 0.0 0.0 0.75  
 standard and adapted CIELAB  
 LAB\*LAB 37.36 -0.38 0.63  
 LAB\*LABa 37.36 0.0 0.0  
 LAB\*TCHa 25.0 0.01 0.0

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\*trc 0.25 0.0 0.0  
 lab\*ncc 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 0.25  
 cmyn4\* 0.0 0.0 0.0 0.75  
 standard and adapted CIELAB  
 LAB\*LAB 37.36 -0.38 0.63  
 LAB\*LABa 37.36 0.0 0.0  
 LAB\*TCHa 25.0 0.01 0.0

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\*trc 0.25 0.0 0.0  
 lab\*ncc 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 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 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 0.0

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0  
 lab\*tch 0.0 0.0 0.0  
 lab\*nch 0.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0  
 lab\*trc 0.0 0.0 0.0  
 lab\*ncc 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 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 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 0.0

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0  
 lab\*tch 0.0 0.0 0.0  
 lab\*nch 0.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0  
 lab\*trc 0.0 0.0 0.0  
 lab\*ncc 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 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 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 0.0

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0  
 lab\*tch 0.0 0.0 0.0  
 lab\*nch 0.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0  
 lab\*trc 0.0 0.0 0.0  
 lab\*ncc 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 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 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 0.0

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

## ORS18; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>  | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>  | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>  | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>  | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>Ma</sub>  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>CIE</sub> | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

%Regularity

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

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

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 0.5 1.0  
 cmyn4\* 0.0 0.0 0.0 0.5  
 standard and adapted CIELAB  
 LAB\*LAB 77.01 -15.8 -19.98  
 LAB\*LABa 77.01 -15.8 -22.5  
 LAB\*TCHa 75.0 27.14 236.02

relative CIELAB lab\*  
 lab\*lab 0.762 -0.278 -0.414  
 lab\*tch 0.75 0.5 0.656  
 lab\*nch 0.0 0.5 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.762 -0.247 -0.433  
 lab\*trc 0.75 0.5 0.656  
 lab\*ncc 0.0 0.5 0.656

relative Inform. Technology (IT)  
 olv3\* 0.25 0.25 0.25 (1.0)  
 cmyn3\* 0.75 0.75 0.75 (0.0)  
 olv4\* 0.5 0.5 0.5 0.75  
 cmyn4\* 0.0 0.0 0.0 0.25  
 standard and adapted CIELAB  
 LAB\*LAB 57.67 -15.43 -20.29  
 LAB\*LABa 57.67 -15.16 -22.5  
 LAB\*TCHa 50.0 27.15 236.02

relative CIELAB lab\*  
 lab\*lab 0.642 -0.418 -0.621  
 lab\*tch 0.625 0.75 0.656  
 lab\*nch 0.0 0.75 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.642 -0.371 -0.65  
 lab\*trc 0.625 0.75 0.567  
 lab\*ncc 0.0 0.75 0.656

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 48.47 -22.83 -32.17  
 LAB\*LABa 48.47 -22.75 -33.75  
 LAB\*TCHa 37.51 40.72 236.02

relative CIELAB lab\*  
 lab\*lab 0.394 -0.418 -0.621  
 lab\*tch 0.375 0.75 0.656  
 lab\*nch 0.0 0.75 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.394 -0.371 -0.65  
 lab\*trc 0.375 0.75 0.567  
 lab\*ncc 0.0 0.75 0.656

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 38.32 -15.16 -22.5  
 LAB\*LABa 38.32 -15.16 -22.5  
 LAB\*TCHa 25.01 27.14 236.02

relative CIELAB lab\*  
 lab\*lab 0.262 -0.278 -0.414  
 lab\*tch 0.25 0.5 0.656  
 lab\*nch 0.0 0.5 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.262 -0.247 -0.433  
 lab\*trc 0.25 0.5 0.656  
 lab\*ncc 0.0 0.5 0.656

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 28.17 -7.57 -11.24  
 LAB\*LABa 28.17 -7.57 -11.24  
 LAB\*TCHa 12.5 13.57 236.02

relative CIELAB lab\*  
 lab\*lab 0.131 -0.139 -0.206  
 lab\*tch 0.125 0.25 0.656  
 lab\*nch 0.0 0.25 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.131 -0.123 -0.216  
 lab\*trc 0.125 0.25 0.567  
 lab\*ncc 0.0 0.25 0.656

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 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 0.0

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

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 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 0.0

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

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 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 0.0

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

# Output: Colorimetric Television Luminous System TLS18

for hue  $h^* = lab^*h = 196/360 = 0.546$

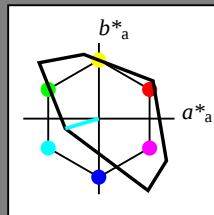
$lab^*tch$  and  $lab^*nch$

D65: hue C

LCH\*Ma: 87 46 196

olv\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



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 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\*trc 1.0 0.0 0.0  
 lab\*ncc 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 0.75  
 cmyn4\* 0.0 0.0 0.0 0.25  
 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 0.0

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\*trc 0.75 0.0 0.0  
 lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.5 0.5 0.5 (1.0)  
 cmyn3\* 0.5 0.5 0.5 (0.0)  
 olv4\* 1.0 1.0 1.0 0.5  
 cmyn4\* 0.0 0.0 0.0 0.5  
 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 0.0

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\*trc 0.5 0.0 0.0  
 lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.25 0.25 0.25 (1.0)  
 cmyn3\* 0.75 0.75 0.75 (0.0)  
 olv4\* 1.0 1.0 1.0 0.25  
 cmyn4\* 0.0 0.0 0.0 0.25  
 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 0.0

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\*trc 0.25 0.0 0.0  
 lab\*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 48.47 -22.83 -32.17  
 LAB\*LABa 48.47 -22.75 -33.75  
 LAB\*TCHa 37.51 40.72 236.02

relative CIELAB lab\*  
 lab\*lab 0.394 -0.418 -0.621  
 lab\*tch 0.375 0.75 0.656  
 lab\*nch 0.0 0.75 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.394 -0.371 -0.65  
 lab\*trc 0.375 0.75 0.567  
 lab\*ncc 0.0 0.75 0.656

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 38.32 -15.16 -22.5  
 LAB\*LABa 38.32 -15.16 -22.5  
 LAB\*TCHa 25.01 27.14 236.02

relative CIELAB lab\*  
 lab\*lab 0.262 -0.278 -0.414  
 lab\*tch 0.25 0.5 0.656  
 lab\*nch 0.0 0.5 0.656  
 relative Natural Colour (NC)  
 lab\*trj 0.262 -0.247 -0.433  
 lab\*trc 0.25 0.5 0.656  
 lab\*ncc 0.0 0.5 0.656

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (0.0)  
 cmyn3\* 1.0 0.0 0.0 (0.0)  
 olv4\* 0.5 0.5 0.5 0.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 28.17 -7.57 -11.24  
 LAB\*LABa 28.17 -7.57 -11.24  
 LAB\*TCHa 12.5 13.57 236.02

relative CIELAB lab\*  
 lab\*lab 0.131 -0.139 -0.206  
 lab\*tch 0.125

## Input: Colorimetric Offset Reflective System ORS18

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

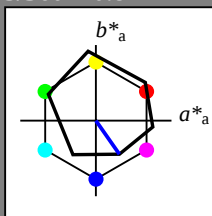
$lab^*tch$  and  $lab^*nch$

D65: hue V

LCH\*Ma: 26 54 305

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



## ORS18; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>  | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>  | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>  | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>  | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>Ma</sub>  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>CIE</sub> | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

%Regularity

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

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

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

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

|                              |       |       |        |
|------------------------------|-------|-------|--------|
| LAB*LABa                     | 77.99 | 7.77  | -11.09 |
| LAB*TCHa                     | 87.5  | 13.55 | 305.0  |
| relative CIELAB lab*         |       |       |        |
| lab*lab                      | 0.775 | 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*lrj                      | 0.775 | 0.112 | -0.222 |
| lab*trg                      | 0.875 | 0.25  | 0.824  |



## Input: Colorimetric Offset Reflective System ORS18

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

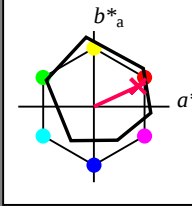
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 75 25

olv\*Ma: 1.0 0.0 0.32

triangle lightness  $t^*$



### ORS18; adapted (a) CIELAB data

|                  | $L^*=L_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-----------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 47.94     | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>  | 90.37     | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>  | 50.9      | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>  | 58.62     | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.72     | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>  | 48.13     | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>Ma</sub>  | 18.01     | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41     | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92     | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>CIE</sub> | 81.26     | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub> | 52.23     | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>CIE</sub> | 30.57     | 1.15    | -46.84  | 46.86        | 271          |

%Regularity

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

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

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

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*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 0.75 0.75 0.75 (1.0)  
lab\*tch 0.75 0.75 0.75 (1.0)  
lab\*nch 0.25 0.25 0.25 (0.0)  
relative Natural Colour (NC)  
lab\*trj 0.75 0.75 0.75 (1.0)  
lab\*tce 0.75 0.75 0.75 (1.0)  
lab\*nce 0.25 0.25 0.25 (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 50.00 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.5 0.5 (0.0)  
lab\*tch 0.5 0.5 0.5 (0.0)  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.5 0.5 0.5 (0.0)  
lab\*tce 0.5 0.5 0.5 (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 -0.08 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCHa 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 (0.0)  
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\*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\* 1.0 0.75 0.831 (1.0)  
cmyn3\* 0.0 0.25 0.169 (0.0)  
olv4\* 1.0 0.75 0.831 (1.0)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 83.55 16.38 11.84  
LAB\*LABa 83.55 17.14 7.88  
LAB\*TCHa 87.5 18.86 24.7

relative CIELAB lab\*  
lab\*lab 0.847 0.25 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 0.5 0.581 (1.0)  
cmyn3\* 0.25 0.5 0.419 (0.0)  
olv4\* 1.0 0.75 0.831 (0.75)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 64.21 16.75 10.54  
LAB\*LABa 64.21 17.14 7.88  
LAB\*TCHa 62.5 18.87 24.7

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\* 0.5 0.25 0.669 (1.0)  
cmyn3\* 0.5 0.75 0.831 (0.5)  
olv4\* 1.0 0.75 0.831 (0.5)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 44.86 13.13 9.23  
LAB\*LABa 44.86 17.14 7.88  
LAB\*TCHa 37.5 18.87 24.7

relative CIELAB lab\*  
lab\*lab 0.347 0.227 0.104  
lab\*tch 0.375 0.25 0.069  
lab\*nch 0.25 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 0.25 0.25 0.069

relative Inform. Technology (IT)  
olv3\* 0.25 0.0 0.0 (1.0)  
cmyn3\* 0.75 1.0 0.919 (0.0)  
olv4\* 1.0 0.75 0.831 (0.0)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 25.51 17.49 7.92  
LAB\*LABa 25.51 17.14 7.88  
LAB\*TCHa 12.5 18.86 24.7

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.25 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 0.25 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 (0.0)  
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\*TCHa 0.01 0.01 -

$n^* = 0.50$

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 0.25 0.811 (1.0)  
cmyn3\* 0.25 0.75 0.589 (0.0)  
olv4\* 1.0 0.5 0.661 (0.75)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 52.36 34.13 17.62  
LAB\*LABa 52.36 34.29 15.77  
LAB\*TCHa 50.0 37.74 24.7

relative CIELAB lab\*  
lab\*lab 0.444 0.454 0.209  
lab\*tch 0.5 0.5 0.069  
lab\*nch 0.25 0.5 0.069  
relative Natural Colour (NC)  
lab\*trj 0.444 0.5 0.0  
lab\*tce 0.5 0.5 0.0  
lab\*nce 0.25 0.5 0.069

relative Inform. Technology (IT)  
olv3\* 0.5 0.0 0.161 (1.0)  
cmyn3\* 0.5 1.0 0.839 (0.0)  
olv4\* 1.0 0.5 0.661 (0.5)  
cmyn4\* 0.0 0.5 0.339 (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 0.194 0.454 0.209  
lab\*tch 0.25 0.5 0.069  
lab\*nch 0.5 0.5 0.069  
relative Natural Colour (NC)  
lab\*trj 0.194 0.5 0.0  
lab\*tce 0.25 0.5 0.0  
lab\*nce 0.5 0.5 0.069

relative Inform. Technology (IT)  
olv3\* 0.25 0.0 0.0 (1.0)  
cmyn3\* 0.75 1.0 0.919 (0.0)  
olv4\* 1.0 0.75 0.831 (0.0)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 25.51 17.49 7.92  
LAB\*LABa 25.51 17.14 7.88  
LAB\*TCHa 12.5 18.86 24.7

relative CIELAB lab\*  
lab\*lab 0.097 0.227 0.104  
lab\*tch 0.125 0.25 0.069  
lab\*nch 0.25 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 0.25 0.25 0.069

$n^* = 0.25$

relative Inform. Technology (IT)  
olv3\* 1.0 0.25 0.492 (1.0)  
cmyn3\* 0.0 0.25 0.169 (0.0)  
olv4\* 1.0 0.25 0.492 (1.0)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 59.85 51.12 26.01  
LAB\*LABa 59.85 51.42 23.65  
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\* 0.75 0.0 0.242 (1.0)  
cmyn3\* 0.25 1.0 0.758 (0.0)  
olv4\* 1.0 0.25 0.492 (0.75)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 40.51 51.49 24.71  
LAB\*LABa 40.51 51.42 23.65  
LAB\*TCHa 37.51 56.6 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 1.0 0.069  
relative Natural Colour (NC)  
lab\*trj 0.291 0.75 0.0  
lab\*tce 0.375 0.75 0.0  
lab\*nce 0.25 0.75 0.069

relative Inform. Technology (IT)  
olv3\* 0.5 0.0 0.0 (1.0)  
cmyn3\* 0.5 1.0 0.919 (0.0)  
olv4\* 1.0 0.5 0.661 (0.5)  
cmyn4\* 0.0 0.5 0.339 (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 0.194 0.454 0.209  
lab\*tch 0.25 0.5 0.069  
lab\*nch 0.5 0.5 0.069  
relative Natural Colour (NC)  
lab\*trj 0.194 0.5 0.0  
lab\*tce 0.25 0.5 0.0  
lab\*nce 0.5 0.5 0.069

relative Inform. Technology (IT)  
olv3\* 0.25 0.0 0.0 (1.0)  
cmyn3\* 0.75 1.0 0.919 (0.0)  
olv4\* 1.0 0.25 0.492 (0.75)  
cmyn4\* 0.0 0.25 0.169 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 25.51 17.49 7.92  
LAB\*LABa 25.51 17.14 7.88  
LAB\*TCHa 12.5 18.86 24.7

$n^* = 0.00$

blackness  $n^*$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

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## Input: Colorimetric Offset Reflective System ORS18

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

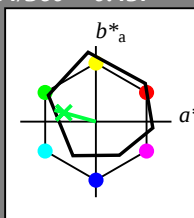
$lab^*tch$  and  $lab^*nch$

D65: hue G

LCH\*Ma: 53 57 164

olv\*Ma: 0.0 1.0 0.25

triangle lightness  $t^*$



$u^*_{rel} = 93$

relative Inform. Technology (IT)

|                             |       |       |      |       |
|-----------------------------|-------|-------|------|-------|
| olv3*                       | 1.0   | 1.0   | 1.0  | (1.0) |
| olv3*                       | 0.0   | 0.0   | 0.0  | (0.0) |
| olv4*                       | 1.0   | 1.0   | 1.0  | 1.0   |
| olv4*                       | 0.0   | 0.0   | 0.0  | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0  | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0  | 0.0   |
| standard and adapted CIELAB |       |       |      |       |
| LAB*LAB                     | 95.41 | -0.98 | 47.5 |       |
| LAB*LAB                     | 95.41 | 0.0   | 0.0  |       |
| LAB*LAB                     | 99.99 | 0.01  | 0.0  |       |

relative Inform. Technology (IT)

|                             |       |        |        |       |
|-----------------------------|-------|--------|--------|-------|
| olv3*                       | 0.75  | 1.0    | 0.812  | (1.0) |
| olv3*                       | 0.25  | 0.0    | 0.388  | (0.0) |
| olv4*                       | 0.75  | 1.0    | 0.812  | 1.0   |
| olv4*                       | 0.25  | 0.0    | 0.388  | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |       |        |        |       |
| LAB*LAB                     | 84.75 | -14.48 | 7.85   |       |
| LAB*LAB                     | 84.75 | -13.69 | 3.81   |       |
| LAB*LAB                     | 97.5  | 14.22  | 164.46 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 0.75  | 1.0   | 0.812 | (1.0) |
| olv3*                       | 0.25  | 0.0   | 0.388 | (0.0) |
| olv4*                       | 0.75  | 1.0   | 0.812 | 1.0   |
| olv4*                       | 0.25  | 0.0   | 0.388 | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 76.06 | -0.61 | 3.44  |       |
| LAB*LAB                     | 76.06 | 0.0   | 0.0   |       |
| LAB*LAB                     | 75.00 | 0.01  | 0.0   |       |

relative Inform. Technology (IT)

|                             |       |        |        |       |
|-----------------------------|-------|--------|--------|-------|
| olv3*                       | 0.75  | 1.0    | 0.812  | (1.0) |
| olv3*                       | 0.25  | 0.0    | 0.388  | (0.0) |
| olv4*                       | 0.75  | 1.0    | 0.812  | 1.0   |
| olv4*                       | 0.25  | 0.0    | 0.388  | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |       |        |        |       |
| LAB*LAB                     | 65.41 | -14.11 | 6.55   |       |
| LAB*LAB                     | 65.41 | -13.7  | 3.81   |       |
| LAB*LAB                     | 62.5  | 14.23  | 164.45 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 0.75  | 1.0   | 0.812 | (1.0) |
| olv3*                       | 0.25  | 0.0   | 0.388 | (0.0) |
| olv4*                       | 0.75  | 1.0   | 0.812 | 1.0   |
| olv4*                       | 0.25  | 0.0   | 0.388 | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 56.71 | -0.24 | 2.14  |       |
| LAB*LAB                     | 56.71 | 0.0   | 0.0   |       |
| LAB*LAB                     | 50.00 | 0.01  | 0.0   |       |

relative Inform. Technology (IT)

|                             |       |        |        |       |
|-----------------------------|-------|--------|--------|-------|
| olv3*                       | 0.75  | 1.0    | 0.812  | (1.0) |
| olv3*                       | 0.25  | 0.0    | 0.388  | (0.0) |
| olv4*                       | 0.75  | 1.0    | 0.812  | 1.0   |
| olv4*                       | 0.25  | 0.0    | 0.388  | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |       |        |        |       |
| LAB*LAB                     | 46.06 | -13.74 | 5.24   |       |
| LAB*LAB                     | 46.06 | -13.7  | 3.81   |       |
| LAB*LAB                     | 37.5  | 14.23  | 164.45 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 0.75  | 1.0   | 0.812 | (1.0) |
| olv3*                       | 0.25  | 0.0   | 0.388 | (0.0) |
| olv4*                       | 0.75  | 1.0   | 0.812 | 1.0   |
| olv4*                       | 0.25  | 0.0   | 0.388 | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 37.5  | -0.24 | 0.0   |       |
| LAB*LAB                     | 37.5  | 0.0   | 0.0   |       |
| LAB*LAB                     | 25.00 | 0.01  | 0.0   |       |

relative Inform. Technology (IT)

|                             |       |       |        |       |
|-----------------------------|-------|-------|--------|-------|
| olv3*                       | 0.75  | 1.0   | 0.812  | (1.0) |
| olv3*                       | 0.25  | 0.0   | 0.388  | (0.0) |
| olv4*                       | 0.75  | 1.0   | 0.812  | 1.0   |
| olv4*                       | 0.25  | 0.0   | 0.388  | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0    | 0.0   |
| standard and adapted CIELAB |       |       |        |       |
| LAB*LAB                     | 26.71 | -13.7 | 3.82   |       |
| LAB*LAB                     | 26.71 | -13.7 | 3.82   |       |
| LAB*LAB                     | 12.5  | 14.23 | 164.43 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 0.75  | 1.0   | 0.812 | (1.0) |
| olv3*                       | 0.25  | 0.0   | 0.388 | (0.0) |
| olv4*                       | 0.75  | 1.0   | 0.812 | 1.0   |
| olv4*                       | 0.25  | 0.0   | 0.388 | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 18.02 | -0.47 | 0.0   |       |
| LAB*LAB                     | 18.02 | 0.0   | 0.0   |       |
| LAB*LAB                     | 0.01  | 0.01  | 0.0   |       |

relative Inform. Technology (IT)

|                             |      |     |       |       |
|-----------------------------|------|-----|-------|-------|
| olv3*                       | 0.75 | 1.0 | 0.812 | (1.0) |
| olv3*                       | 0.25 | 0.0 | 0.388 | (0.0) |
| olv4*                       | 0.75 | 1.0 | 0.812 | 1.0   |
| olv4*                       | 0.25 | 0.0 | 0.388 | 0.0   |
| olv4*                       | 0.0  | 0.0 | 0.0   | 0.0   |
| olv4*                       | 0.0  | 0.0 | 0.0   | 0.0   |
| standard and adapted CIELAB |      |     |       |       |
| LAB*LAB                     | 0.0  | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0  | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0  | 0.0 | 0.0   |       |

relative Inform. Technology (IT)

|                             |      |     |       |       |
|-----------------------------|------|-----|-------|-------|
| olv3*                       | 0.75 | 1.0 | 0.812 | (1.0) |
| olv3*                       | 0.25 | 0.0 | 0.388 | (0.0) |
| olv4*                       | 0.75 | 1.0 | 0.812 | 1.0   |
| olv4*                       | 0.25 | 0.0 | 0.388 | 0.0   |
| olv4*                       | 0.0  | 0.0 | 0.0   | 0.0   |
| olv4*                       | 0.0  | 0.0 | 0.0   | 0.0   |
| standard and adapted CIELAB |      |     |       |       |
| LAB*LAB                     | 0.0  | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0  | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0  | 0.0 | 0.0   |       |

## ORS18; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>  | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>  | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>  | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>  | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>Ma</sub>  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>CIE</sub> | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

## %Regularity

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

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

relative Inform. Technology (IT)

|                             |      |        |        |       |
|-----------------------------|------|--------|--------|-------|
| olv3*                       | 0.5  | 1.0    | 0.623  | (1.0) |
| olv3*                       | 0.0  | 0.0    | 0.377  | (0.0) |
| olv4*                       | 0.5  | 1.0    | 0.623  | 1.0   |
| olv4*                       | 0.0  | 0.0    | 0.377  | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |      |        |        |       |
| LAB*LAB                     | 74.1 | -27.98 | 10.94  |       |
| LAB*LAB                     | 74.1 | -27.4  | 7.62   |       |
| LAB*LAB                     | 75.0 | 28.45  | 164.46 |       |

relative Inform. Technology (IT)

|                             |      |        |        |       |
|-----------------------------|------|--------|--------|-------|
| olv3*                       | 0.5  | 1.0    | 0.623  | (1.0) |
| olv3*                       | 0.0  | 0.0    | 0.377  | (0.0) |
| olv4*                       | 0.5  | 1.0    | 0.623  | 1.0   |
| olv4*                       | 0.0  | 0.0    | 0.377  | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |      |        |        |       |
| LAB*LAB                     | 74.1 | -27.98 | 10.94  |       |
| LAB*LAB                     | 74.1 | -27.4  | 7.62   |       |
| LAB*LAB                     | 75.0 | 28.45  | 164.46 |       |

relative Inform. Technology (IT)

|                             |       |        |        |       |
|-----------------------------|-------|--------|--------|-------|
| olv3*                       | 0.5   | 1.0    | 0.623  | (1.0) |
| olv3*                       | 0.0   | 0.0    | 0.377  | (0.0) |
| olv4*                       | 0.5   | 1.0    | 0.623  | 1.0   |
| olv4*                       | 0.0   | 0.0    | 0.377  | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |       |        |        |       |
| LAB*LAB                     | 54.76 | -27.41 | 7.63   |       |
| LAB*LAB                     | 54.76 | -27.41 | 7.63   |       |
| LAB*LAB                     | 50.0  | 28.46  | 164.45 |       |

relative Inform. Technology (IT)

|                             |      |        |        |       |
|-----------------------------|------|--------|--------|-------|
| olv3*                       | 0.5  | 1.0    | 0.623  | (1.0) |
| olv3*                       | 0.0  | 0.0    | 0.377  | (0.0) |
| olv4*                       | 0.5  | 1.0    | 0.623  | 1.0   |
| olv4*                       | 0.0  | 0.0    | 0.377  | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |      |        |        |       |
| LAB*LAB                     | 47.5 | -27.41 | 7.63   |       |
| LAB*LAB                     | 47.5 | -27.41 | 7.63   |       |
| LAB*LAB                     | 50.0 | 28.46  | 164.45 |       |

relative Inform. Technology (IT)

|                             |       |       |        |       |
|-----------------------------|-------|-------|--------|-------|
| olv3*                       | 0.5   | 1.0   | 0.623  | (1.0) |
| olv3*                       | 0.0   | 0.0   | 0.377  | (0.0) |
| olv4*                       | 0.5   | 1.0   | 0.623  | 1.0   |
| olv4*                       | 0.0   | 0.0   | 0.377  | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0    | 0.0   |
| standard and adapted CIELAB |       |       |        |       |
| LAB*LAB                     | 35.41 | -27.4 | 7.63   |       |
| LAB*LAB                     | 35.41 | -27.4 | 7.63   |       |
| LAB*LAB                     | 25.01 | 28.46 | 164.44 |       |

relative Inform. Technology (IT)

|                             |       |       |        |       |
|-----------------------------|-------|-------|--------|-------|
| olv3*                       | 0.5   | 1.0   | 0.623  | (1.0) |
| olv3*                       | 0.0   | 0.0   | 0.377  | (0.0) |
| olv4*                       | 0.5   | 1.0   | 0.623  | 1.0   |
| olv4*                       | 0.0   | 0.0   | 0.377  | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0    | 0.0   |
| standard and adapted CIELAB |       |       |        |       |
| LAB*LAB                     | 25.01 | -27.4 | 7.63   |       |
| LAB*LAB                     | 25.01 | -27.4 | 7.63   |       |
| LAB*LAB                     | 25.01 | 28.46 | 164.44 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 0.5   | 1.0   | 0.623 | (1.0) |
| olv3*                       | 0.0   | 0.0   | 0.377 | (0.0) |
| olv4*                       | 0.5   | 1.0   | 0.623 | 1.0   |
| olv4*                       | 0.0   | 0.0   | 0.377 | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| olv4*                       | 0.0   | 0.0   | 0.0   | 0.0   |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 18.03 | -0.47 | 0.0   |       |
| LAB*LAB                     | 18.03 | 0.0   | 0.0   |       |
| LAB*LAB                     | 0.01  | 0.01  | 0.0   |       |

relative Inform. Technology (IT)

|                             |     |     |       |       |
|-----------------------------|-----|-----|-------|-------|
| olv3*                       | 0.5 | 1.0 | 0.623 | (1.0) |
| olv3*                       | 0.0 | 0.0 | 0.377 | (0.0) |
| olv4*                       | 0.5 | 1.0 | 0.623 | 1.0   |
| olv4*                       | 0.0 | 0.0 | 0.377 | 0.0   |
| olv4*                       | 0.0 | 0.0 | 0.0   | 0.0   |
| olv4*                       | 0.0 | 0.0 | 0.0   | 0.0   |
| standard and adapted CIELAB |     |     |       |       |
| LAB*LAB                     | 0.0 | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0 | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0 | 0.0 | 0.0   |       |

relative Inform. Technology (IT)

|                             |     |     |       |       |
|-----------------------------|-----|-----|-------|-------|
| olv3*                       | 0.5 | 1.0 | 0.623 | (1.0) |
| olv3*                       | 0.0 | 0.0 | 0.377 | (0.0) |
| olv4*                       | 0.5 | 1.0 | 0.623 | 1.0   |
| olv4*                       | 0.0 | 0.0 | 0.377 | 0.0   |
| olv4*                       | 0.0 | 0.0 | 0.0   | 0.0   |
| olv4*                       | 0.0 | 0.0 | 0.0   | 0.0   |
| standard and adapted CIELAB |     |     |       |       |
| LAB*LAB                     | 0.0 | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0 | 0.0 | 0.0   |       |
| LAB*LAB                     | 0.0 | 0.0 | 0.0   |       |

relative Inform. Technology (IT)

|                             |       |        |        |       |
|-----------------------------|-------|--------|--------|-------|
| olv3*                       | 0.5   | 1.0    | 0.623  | (1.0) |
| olv3*                       | 0.0   | 0.0    | 0.377  | (0.0) |
| olv4*                       | 0.5   | 1.0    | 0.623  | 1.0   |
| olv4*                       | 0.0   | 0.0    | 0.377  | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0   | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |       |        |        |       |
| LAB*LAB                     | 63.45 | -41.48 | 14.04  |       |
| LAB*LAB                     | 63.45 | -41.11 | 11.44  |       |
| LAB*LAB                     | 62.5  | 42.68  | 164.45 |       |

relative Inform. Technology (IT)

|                             |      |        |        |       |
|-----------------------------|------|--------|--------|-------|
| olv3*                       | 0.5  | 1.0    | 0.623  | (1.0) |
| olv3*                       | 0.0  | 0.0    | 0.377  | (0.0) |
| olv4*                       | 0.5  | 1.0    | 0.623  | 1.0   |
| olv4*                       | 0.0  | 0.0    | 0.377  | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| olv4*                       | 0.0  | 0.0    | 0.0    | 0.0   |
| standard and adapted CIELAB |      |        |        |       |
| LAB*LAB                     | 52.8 | -54.81 | 17.14  |       |
| LAB*LAB                     | 52.8 | -54.81 | 17.14  |       |
| LAB*LAB                     | 50.0 | 56.91  | 164.45 |       |

relative Inform. Technology (IT)

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

## Input: Colorimetric Offset Reflective System ORS18

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

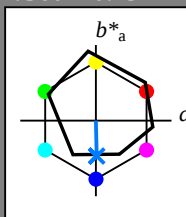
$lab^*tch$  and  $lab^*nch$

D65: hue B

LCH\*Ma: 42 45 271

olv\*Ma: 0.0 0.49 1.0

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 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 0.63  
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

$n^* = 1.0$

## ORS18; adapted (a) CIELAB data

$L^* = L^*_a$   $a^*_a$   $b^*_a$   $C^*_{ab,a}$   $h^*_{ab,a}$

|                  |       |        |        |       |     |
|------------------|-------|--------|--------|-------|-----|
| O <sub>Ma</sub>  | 47.94 | 65.39  | 50.52  | 82.63 | 38  |
| Y <sub>Ma</sub>  | 90.37 | -10.26 | 91.75  | 92.32 | 96  |
| L <sub>Ma</sub>  | 50.9  | -62.83 | 34.96  | 71.91 | 151 |
| C <sub>Ma</sub>  | 58.62 | -30.34 | -45.01 | 54.3  | 236 |
| V <sub>Ma</sub>  | 25.72 | 31.1   | -44.4  | 54.22 | 305 |
| M <sub>Ma</sub>  | 48.13 | 75.28  | -8.36  | 75.74 | 354 |
| N <sub>Ma</sub>  | 18.01 | 0.0    | 0.0    | 0.0   | 0   |
| W <sub>Ma</sub>  | 95.41 | 0.0    | 0.0    | 0.0   | 0   |
| R <sub>CIE</sub> | 39.92 | 58.66  | 26.98  | 64.57 | 25  |
| J <sub>CIE</sub> | 81.26 | -2.16  | 67.76  | 67.79 | 92  |
| G <sub>CIE</sub> | 52.23 | -42.25 | 11.76  | 43.87 | 164 |
| B <sub>CIE</sub> | 30.57 | 1.15   | -46.84 | 46.86 | 271 |

% Regularity

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

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

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 68.6 0.07 -19.39  
LAB\*LABa 68.6 0.0 0.0  
LAB\*LABb 68.6 0.0 0.0

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 49.25 0.45 -20.7  
LAB\*LABa 49.25 0.0 0.0  
LAB\*LABb 49.25 0.0 0.0

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 29.9 0.5 -22.34  
LAB\*LABa 29.9 0.0 0.0  
LAB\*LABb 25.01 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 18.02 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

$n^* = 0.50$

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 55.19 0.61 -31.48  
LAB\*LABa 55.19 0.0 0.0  
LAB\*LABb 55.19 0.0 0.0

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 41.79 1.1 -44.68  
LAB\*LABa 41.79 0.0 0.0  
LAB\*LABb 41.79 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

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 35.84 0.98 -32.78  
LAB\*LABa 35.84 0.0 0.0  
LAB\*LABb 35.84 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

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 29.9 0.5 -22.34  
LAB\*LABa 29.9 0.0 0.0  
LAB\*LABb 25.01 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

$n^* = 0.25$

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 25.01 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 18.02 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 18.02 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 18.02 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

$n^* = 0.00$

## Output: Colorimetric Television Luminous System TLS18

for hue  $h^* = lab^*h = 272/360 = 0.755$

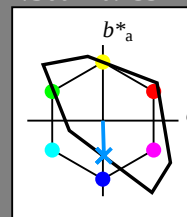
$lab^*tch$  and  $lab^*nch$

D65: hue B

LCH\*Ma: 65 48 272

olv\*Ma: 0.0 0.58 1.0

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\*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 76.07 0.0 0.0  
LAB\*LABa 76.07 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 56.72 0.0 0.0  
LAB\*LABa 56.72 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 37.37 0.0 0.0  
LAB\*LABa 37.37 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 18.03 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

$n^* = 1.0$

## 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\* 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 80.44 0.71 -23.73  
LAB\*LABa 80.44 0.0 0.0  
LAB\*LABb 75.00 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 61.09 0.72 -23.74  
LAB\*LABa 61.09 0.0 0.0  
LAB\*LABb 50.00 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 29.9 0.5 -22.34  
LAB\*LABa 29.9 0.0 0.0  
LAB\*LABb 25.01 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