

### Input: Colorimetric Reflective System ORS18

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

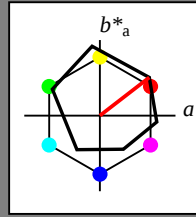
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



$u^*_{rel} = 93$

### ORS18; adapted (a) CIELAB data

|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| OMa  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.9        | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

%Regularity

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

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

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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 | -0.97 | 4.75 |
| 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)

|        |     |      |      |       |
|--------|-----|------|------|-------|
| olvi3* | 1.0 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | (1.0) |
| cmyn4* | 0.0 | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 83.54 | 15.58 | 16.58 |
| LAB*LABa | 83.54 | 16.34 | 12.62 |
| LAB*LABb | 97.5  | 20.65 | 37.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.847 | 0.198 | 0.153 |
| lab*tch | 0.875 | 0.25  | 0.105 |
| lab*nch | 0.0   | 0.25  | 0.105 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.847 | 0.238 | 0.075 |
| lab*tce | 0.875 | 0.25  | 0.048 |
| lab*nce | 0.0   | 0.25  | 0.119 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.0 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.5 | 0.5 | (1.0) |
| cmyn4* | 0.0 | 0.5 | 0.5 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 71.67 | 32.15 | 28.41 |
| LAB*LABa | 71.67 | 32.68 | 25.25 |
| LAB*LABb | 75.0  | 41.3  | 37.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.693 | 0.396 | 0.306 |
| lab*tch | 0.75  | 0.5   | 0.105 |
| lab*nch | 0.0   | 0.5   | 0.105 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.693 | 0.477 | 0.15  |
| lab*tce | 0.75  | 0.5   | 0.048 |
| lab*nce | 0.0   | 0.5   | 0.119 |

relative Inform. Technology (IT)

|        |     |      |      |       |
|--------|-----|------|------|-------|
| olvi3* | 1.0 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.25 | 0.25 | (1.0) |
| cmyn4* | 0.0 | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 59.81 | 48.72 | 40.24 |
| LAB*LABa | 59.81 | 49.02 | 37.88 |
| LAB*LABb | 62.5  | 61.95 | 37.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.54  | 0.593 | 0.459 |
| lab*tch | 0.625 | 0.75  | 0.105 |
| lab*nch | 0.0   | 0.75  | 0.105 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.54  | 0.715 | 0.225 |
| lab*tce | 0.625 | 0.75  | 0.048 |
| lab*nce | 0.0   | 0.75  | 0.119 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.0 | 0.0 | (1.0) |
| cmyn4* | 0.0 | 1.0 | 1.0 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 47.95 | 65.29 | 52.06 |
| LAB*LABa | 47.95 | 65.36 | 50.51 |
| LAB*LABb | 50.0  | 82.6  | 37.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.387 | 0.791 | 0.611 |
| lab*tch | 0.5   | 1.0   | 0.105 |
| lab*nch | 0.0   | 1.0   | 0.105 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.387 | 0.954 | 0.299 |
| lab*tce | 0.5   | 1.0   | 0.048 |
| lab*nce | 0.0   | 1.0   | 0.119 |

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 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 | 10.97 | 0.63 |
| LAB*LABa | 37.36 | 0.0   | 0.0  |
| LAB*LABb | 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*tce | 0.25 | 0.0 | 0.0 |
| lab*nce | 0.0  | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 44.28 | 16.33 | 13.98 |
| LAB*LABa | 44.28 | 16.34 | 12.63 |
| LAB*LABb | 37.5  | 20.65 | 37.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.347 | 0.198 | 0.153 |
| lab*tch | 0.375 | 0.25  | 0.105 |
| lab*nch | 0.0   | 0.25  | 0.105 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.347 | 0.238 | 0.075 |
| lab*tce | 0.375 | 0.25  | 0.048 |
| lab*nce | 0.0   | 0.25  | 0.119 |

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 32.98 | 32.68 | 25.25 |
| LAB*LABa | 32.98 | 32.68 | 25.25 |
| LAB*LABb | 25.01 | 41.3  | 37.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.193 | 0.396 | 0.306 |
| lab*tch | 0.25  | 0.5   | 0.105 |
| lab*nch | 0.0   | 0.5   | 0.105 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.193 | 0.477 | 0.15  |
| lab*tce | 0.25  | 0.5   | 0.048 |
| lab*nce | 0.0   | 0.5   | 0.119 |

chromaticness  $c^*$

TE500-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

BAM-test chart TE50; Colorimetric systems ORS18 & MRS18

D65: 2 coordinate data of 5 step colour scales for 10 hues

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 30/360 = 0.083$

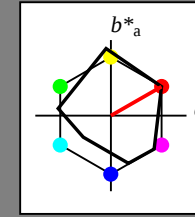
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 50 77 30

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



$u^*_{rel} = 91$

### MRS18; adapted (a) CIELAB data

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| NMa    | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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 | -0.97 | 4.75 |
| 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)

|        |     |      |      |       |
|--------|-----|------|------|-------|
| olvi3* | 1.0 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | (1.0) |
| cmyn4* | 0.0 | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 83.96 | 15.97 | 13.58 |
| LAB*LABa | 83.96 | 16.73 | 9.59  |
| LAB*LABb | 87.5  | 29.29 | 38.82 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.852 | 0.217 | 0.124 |
| lab*tch | 0.875 | 0.25  | 0.083 |
| lab*nch | 0.0   | 0.25  | 0.083 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.852 | 0.248 | 0.03  |
| lab*tce | 0.875 | 0.25  | 0.019 |
| lab*nce | 0.0   | 0.25  | 0.071 |

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 64.61 | 16.74 | 9.59  |
| LAB*LABa | 64.61 | 16.74 | 9.59  |
| LAB*LABb | 62.5  | 19.29 | 29.82 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.502 | 0.217 | 0.124 |
| lab*tch | 0.525 | 0.25  | 0.083 |
| lab*nch | 0.0   | 0.25  | 0.083 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.502 | 0.248 | 0.03  |
| lab*tce | 0.525 | 0.25  | 0.019 |
| lab*nce | 0.0   | 0.25  | 0.071 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 53.17 | 32.93 | 22.4  |
| LAB*LABa | 53.17 | 33.48 | 19.19 |
| LAB*LABb | 50.0  | 38.58 | 29.82 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.704 | 0.434 | 0.249 |
| lab*tch | 0.75  | 0.5   | 0.083 |
| lab*nch | 0.0   | 0.5   | 0.083 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.704 | 0.496 | 0.06  |
| lab*tce | 0.75  | 0.5   | 0.019 |
| lab*nce | 0.0   | 0.5   | 0.071 |

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 33.82 | 33.47 | 19.18 |
| LAB*LABa | 33.82 | 33.47 | 19.18 |
| LAB*LABb | 25.01 | 38.58 | 29.82 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.306 | 0.651 | 0.373 |
| lab*tch | 0.375 | 0.75  | 0.083 |
| lab*nch | 0.0   | 0.75  | 0.083 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.306 | 0.745 | 0.071 |
| lab*tce | 0.375 | 0.75  | 0.019 |
| lab*nce | 0.0   | 0.75  | 0.071 |

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0) |
| olvi4* | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 47.95 | 65.29 | 52.06 |
| LAB*LABa | 47.95 | 65.36 | 50.51 |
| LAB*LABb | 50.0  | 82.6  | 37.7  |

relative CIELAB lab\*

|         |      |     |     |
|---------|------|-----|-----|
| lab*lab | 0.25 | 0.0 | 0.0 |
|---------|------|-----|-----|



## Input: Colorimetric Reflective System ORS18

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

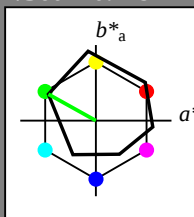
$lab^*tch$  and  $lab^*nch$

D65: hue L

LCH\*Ma: 51 72 151

rgb\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



## ORS18; adapted (a) CIELAB data

|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| QMa  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.59       | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

%Regularity

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

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

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 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 -0.97 4.75  
LAB\*Lab 95.41 0.0 0.0  
LAB\*TCMa 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)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 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 -0.6 3.44  
LAB\*Lab 76.06 0.0 0.0  
LAB\*TCMa 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\*tce 0.75 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 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 -0.23 2.14  
LAB\*Lab 56.71 0.0 0.0  
LAB\*TCMa 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\*tce 0.5 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
olvi4\* 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\*Lab 37.36 0.0 0.0  
LAB\*TCMa 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\*tce 0.25 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.75 1.0 0.75 (1.0)  
cmyn3\* 0.25 0.0 0.25 (0.0)  
olvi4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.28 -16.45 12.74  
LAB\*Lab 84.28 -15.68 8.73  
LAB\*TCMa 87.5 17.96 150.91

relative CIELAB lab\*  
lab\*lab 0.856 -0.217 0.122  
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)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 64.93 -16.09 11.44  
LAB\*Lab 64.93 -15.69 8.74  
LAB\*TCMa 62.5 17.97 150.91

relative CIELAB lab\*  
lab\*lab 0.616 -0.217 0.122  
lab\*tch 0.625 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
relative Natural Colour (NC)  
lab\*trj 0.606 -0.238 0.072  
lab\*tce 0.625 0.25 0.453  
lab\*nce 0.25 0.25 0.419

relative Inform. Technology (IT)  
olvi3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.5 0.75 (0.0)  
olvi4\* 0.75 1.0 0.75 (1.0)  
cmyn4\* 0.25 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 45.56 -15.72 10.13  
LAB\*Lab 45.56 -15.69 8.74  
LAB\*TCMa 37.5 17.97 150.91

relative CIELAB lab\*  
lab\*lab 0.356 -0.217 0.122  
lab\*tch 0.375 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
relative Natural Colour (NC)  
lab\*trj 0.356 -0.238 0.072  
lab\*tce 0.375 0.25 0.453  
lab\*nce 0.25 0.25 0.419

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olvi4\* 0.5 1.0 0.5 (1.0)  
cmyn4\* 0.5 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 34.46 -31.2 18.11  
LAB\*Lab 34.46 -31.38 17.47  
LAB\*TCMa 25.01 35.93 150.91

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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 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 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 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 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.0 0.5 (0.0)  
olvi4\* 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 -31.94 20.73  
LAB\*Lab 73.15 -31.38 17.47  
LAB\*TCMa 75.0 35.93 150.91

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)  
olvi3\* 0.25 1.0 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.25 1.0 0.25 (1.0)  
cmyn4\* 0.75 0.25 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 62.02 -47.43 28.71  
LAB\*Lab 62.02 -47.09 26.21  
LAB\*TCMa 62.5 53.9 150.91

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)  
olvi3\* 0.0 0.75 0.0 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.0 1.0 0.0 (1.0)  
cmyn4\* 0.0 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.8 -31.57 19.42  
LAB\*Lab 53.8 -31.39 17.47  
LAB\*TCMa 50.0 35.94 150.91

relative CIELAB lab\*  
lab\*lab 0.462 -0.436 0.243  
lab\*tch 0.5 0.5 0.419  
lab\*nch 0.0 0.5 0.419  
relative Natural Colour (NC)  
lab\*trj 0.462 -0.478 0.144  
lab\*tce 0.5 0.5 0.453  
lab\*nce 0.0 0.5 0.419

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olvi4\* 0.0 1.0 0.0 (1.0)  
cmyn4\* 0.0 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.68 -47.06 27.41  
LAB\*Lab 42.68 -47.09 26.21  
LAB\*TCMa 37.51 53.9 150.91

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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.25 0.0 0.25 (1.0)  
cmyn3\* 0.75 0.0 0.75 (0.0)  
olvi4\* 0.25 1.0 0.25 (1.0)  
cmyn4\* 0.75 0.0 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 62.02 -47.43 28.71  
LAB\*Lab 62.02 -47.09 26.21  
LAB\*TCMa 62.5 53.9 150.91

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)  
olvi3\* 0.0 0.75 0.0 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.0 1.0 0.0 (1.0)  
cmyn4\* 0.0 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.8 -31.57 19.42  
LAB\*Lab 53.8 -31.39 17.47  
LAB\*TCMa 50.0 35.94 150.91

relative CIELAB lab\*  
lab\*lab 0.462 -0.436 0.243  
lab\*tch 0.5 0.5 0.419  
lab\*nch 0.0 0.5 0.419  
relative Natural Colour (NC)  
lab\*trj 0.462 -0.478 0.144  
lab\*tce 0.5 0.5 0.453  
lab\*nce 0.0 0.5 0.419

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olvi4\* 0.0 1.0 0.0 (1.0)  
cmyn4\* 0.0 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.68 -47.06 27.41  
LAB\*Lab 42.68 -47.09 26.21  
LAB\*TCMa 37.51 53.9 150.91

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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 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 -0.6 3.44  
LAB\*Lab 76.06 0.0 0.0  
LAB\*TCMa 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\*tce 0.75 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.25 1.0 0.25 (1.0)  
cmyn4\* 0.75 0.25 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*Lab 56.71 0.0 0.0  
LAB\*TCMa 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\*tce 0.5 0.0 0.0  
lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 0.75 0.25 0.75 (0.0)  
olvi4\* 0.0 1.0 0.0 (1.0)  
cmyn4\* 0.0 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 45.56 -15.72 10.13  
LAB\*Lab 45.56 -15.69 8.74  
LAB\*TCMa 37.5 17.97 150.91

relative CIELAB lab\*  
lab\*lab 0.356 -0.217 0.122  
lab\*tch 0.375 0.25 0.419  
lab\*nch 0.25 0.25 0.419  
relative Natural Colour (NC)  
lab\*trj 0.356 -0.238 0.072  
lab\*tce 0.375 0.25 0.453  
lab\*nce 0.25 0.25 0.419

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 1.0 0.5 1.0 (0.0)  
olvi4\* 0.0 1.0 0.0 (1.0)  
cmyn4\* 0.0 0.25 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 34.46 -31.2 18.11  
LAB\*Lab 34.46 -31.38 17.47  
LAB\*TCMa 25.01 35.93 150.91

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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.46  
LAB\*Lab 18.02 0.0 0.0  
LAB\*TCMa 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 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)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olvi4\*

### Input: Colorimetric Reflective System ORS18

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

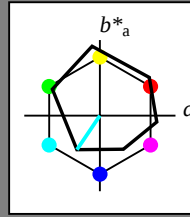
$lab^*tch$  and  $lab^*nch$

D65: hue C

LCH\*Ma: 59 54 236

rgb\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



$u^*_{rel} = 93$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 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 -0.97 4.75  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0  
LAB\*LABc 95.41 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 1.0 1.0 (1.0)  
cmyn3\* 0.25 0.0 0.0 (0.0)  
olvi4\* 0.75 1.0 1.0 (1.0)  
cmyn4\* 0.25 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 86.21 -8.38 -7.1  
LAB\*LABa 86.21 -7.58 -11.24  
LAB\*LABb 86.21 13.57 236.01

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 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 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0  
LAB\*LABc 76.06 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.881 -0.139 -0.206  
cmyn3\* 0.881 0.25 0.656  
olvi4\* 0.881 0.25 0.656  
cmyn4\* 0.881 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 86.21 -8.38 -7.1  
LAB\*LABa 86.21 -7.58 -11.24  
LAB\*LABb 86.21 13.57 236.01

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 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 -0.6 3.44  
LAB\*LABa 76.06 0.0 0.0  
LAB\*LABb 76.06 0.0 0.0  
LAB\*LABc 76.06 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 0.75 1.0 1.0 (1.0)  
cmyn4\* 0.25 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 66.86 -8.01 -8.41  
LAB\*LABa 66.86 -7.58 -11.25  
LAB\*LABb 66.86 13.58 236.01

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 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 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0  
LAB\*LABc 56.71 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.631 -0.123 -0.216  
cmyn3\* 0.631 0.25 0.656  
olvi4\* 0.631 0.25 0.656  
cmyn4\* 0.631 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0  
LAB\*LABc 56.71 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 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 -0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 56.71 0.0 0.0  
LAB\*LABc 56.71 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.631 -0.123 -0.216  
cmyn3\* 0.631 0.25 0.656  
olvi4\* 0.631 0.25 0.656  
cmyn4\* 0.631 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 47.51 -7.64 -9.72  
LAB\*LABa 47.51 -7.58 -11.25  
LAB\*LABb 47.51 13.58 236.01

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 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 -0.13 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 37.36 0.0 0.0  
LAB\*LABc 37.36 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.381 -0.139 -0.206  
cmyn3\* 0.381 0.25 0.656  
olvi4\* 0.381 0.25 0.656  
cmyn4\* 0.381 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 37.36 -0.13 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 37.36 0.0 0.0  
LAB\*LABc 37.36 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 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 -0.13 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 37.36 0.0 0.0  
LAB\*LABc 37.36 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.381 -0.139 -0.206  
cmyn3\* 0.381 0.25 0.656  
olvi4\* 0.381 0.25 0.656  
cmyn4\* 0.381 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 28.17 -7.58 -11.24  
LAB\*LABa 28.17 13.57 236.01

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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 18.02 0.0 0.0  
LAB\*LABc 18.02 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.131 -0.139 -0.206  
cmyn3\* 0.131 0.25 0.656  
olvi4\* 0.131 0.25 0.656  
cmyn4\* 0.131 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*LABb 18.02 0.0 0.0  
LAB\*LABc 18.02 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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 18.02 0.0 0.0  
LAB\*LABc 18.02 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.131 -0.139 -0.206  
cmyn3\* 0.131 0.25 0.656  
olvi4\* 0.131 0.25 0.656  
cmyn4\* 0.131 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*LABb 18.02 0.0 0.0  
LAB\*LABc 18.02 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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 18.02 0.0 0.0  
LAB\*LABc 18.02 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.131 -0.139 -0.206  
cmyn3\* 0.131 0.25 0.656  
olvi4\* 0.131 0.25 0.656  
cmyn4\* 0.131 0.25 0.656  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*LABb 18.02 0.0 0.0  
LAB\*LABc 18.02 0.0 0.0

### ORS18; adapted (a) CIELAB data

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

|      |       |        |        |       |     |
|------|-------|--------|--------|-------|-----|
| QMa  | 47.94 | 65.37  | 50.52  | 82.62 | 38  |
| YMa  | 90.37 | -10.27 | 91.77  | 92.34 | 96  |
| LMa  | 50.9  | -62.79 | 34.95  | 71.87 | 151 |
| CMa  | 58.62 | -30.35 | -45.01 | 54.3  | 236 |
| VMa  | 25.71 | 31.11  | -44.42 | 54.24 | 305 |
| MMa  | 48.13 | 75.27  | -8.35  | 75.73 | 354 |
| NMa  | 18.01 | 0.0    | 0.0    | 0.0   | 0   |
| WMa  | 95.41 | 0.0    | 0.0    | 0.0   | 0   |
| RCIE | 39.92 | 58.66  | 26.98  | 64.56 | 25  |
| JCIE | 81.26 | -2.17  | 67.76  | 67.79 | 92  |
| GCIE | 52.23 | -42.26 | 11.75  | 43.87 | 164 |
| BCIE | 30.57 | 1.15   | -46.84 | 46.87 | 271 |

%Regularity

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

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

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.5    | 0.5    | 0.5    | (1.0) |
| cmyn3*                           | 0.5     | 0.5    | 0.5    | 0.5    | (0.0) |
| olvi4*                           | 0.5     | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.5     | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 77.01  | -15.16 | -19.98 |       |
| LAB*LABa                         | 77.01   | -15.16 | -19.98 |        |       |
| LAB*LABb                         | 77.01   | -15.16 | -19.98 |        |       |
| LAB*LABc                         | 77.01   | -15.16 | -19.98 |        |       |

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.5    | 0.5    | 0.5    | (1.0) |
| cmyn3*                           | 0.5     | 0.5    | 0.5    | 0.5    | (0.0) |
| olvi4*                           | 0.5     | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.5     | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 67.81  | -23.21 | -30.86 |       |
| LAB*LABa                         | 67.81   | -23.21 | -30.86 |        |       |
| LAB*LABb                         | 67.81   | -23.21 | -30.86 |        |       |
| LAB*LABc                         | 67.81   | -23.21 | -30.86 |        |       |

|                                  |         |        |        |       |       |
|----------------------------------|---------|--------|--------|-------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.0    | 0.75   | 0.75  | (1.0) |
| cmyn3*                           | 0.75    | 0.75   | 0.75   | 0.75  | (0.0) |
| olvi4*                           | 0.75    | 1.0    | 1.0    | 1.0   | (1.0) |
| cmyn4*                           | 0.75    | 0.0    | 0.0    | 0.0   | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 57.66  | -15.17 | -22.5 |       |
| LAB*LABa                         | 57.66   | -15.17 | -22.5  |       |       |
| LAB*LABb                         | 57.66   | -15.17 | -22.5  |       |       |
| LAB*LABc                         | 57.66   | -15.17 | -22.5  |       |       |

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.0    | 0.75   | 0.75   | (1.0) |
| cmyn3*                           | 0.75    | 0.75   | 0.75   | 0.75   | (0.0) |
| olvi4*                           | 0.75    | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.75    | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 48.47  | -22.83 | -32.16 |       |
| LAB*LABa                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABb                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABc                         | 48.47   | -22.83 | -32.16 |        |       |

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.0    | 0.75   | 0.75   | (1.0) |
| cmyn3*                           | 0.75    | 0.75   | 0.75   | 0.75   | (0.0) |
| olvi4*                           | 0.75    | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.75    | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 48.47  | -22.83 | -32.16 |       |
| LAB*LABa                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABb                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABc                         | 48.47   | -22.83 | -32.16 |        |       |

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.0    | 0.75   | 0.75   | (1.0) |
| cmyn3*                           | 0.75    | 0.75   | 0.75   | 0.75   | (0.0) |
| olvi4*                           | 0.75    | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.75    | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 48.47  | -22.83 | -32.16 |       |
| LAB*LABa                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABb                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABc                         | 48.47   | -22.83 | -32.16 |        |       |

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.0    | 0.75   | 0.75   | (1.0) |
| cmyn3*                           | 0.75    | 0.75   | 0.75   | 0.75   | (0.0) |
| olvi4*                           | 0.75    | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.75    | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 48.47  | -22.83 | -32.16 |       |
| LAB*LABa                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABb                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABc                         | 48.47   | -22.83 | -32.16 |        |       |

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.0    | 0.75   | 0.75   | (1.0) |
| cmyn3*                           | 0.75    | 0.75   | 0.75   | 0.75   | (0.0) |
| olvi4*                           | 0.75    | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.75    | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 48.47  | -22.83 | -32.16 |       |
| LAB*LABa                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABb                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABc                         | 48.47   | -22.83 | -32.16 |        |       |

|                                  |         |        |        |        |       |
|----------------------------------|---------|--------|--------|--------|-------|
| relative Inform. Technology (IT) | olvi3*  | 0.0    | 0.75   | 0.75   | (1.0) |
| cmyn3*                           | 0.75    | 0.75   | 0.75   | 0.75   | (0.0) |
| olvi4*                           | 0.75    | 1.0    | 1.0    | 1.0    | (1.0) |
| cmyn4*                           | 0.75    | 0.0    | 0.0    | 0.0    | (0.0) |
| standard and adapted CIELAB      | LAB*LAB | 48.47  | -22.83 | -32.16 |       |
| LAB*LABa                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABb                         | 48.47   | -22.83 | -32.16 |        |       |
| LAB*LABc                         | 48.47   | -22.83 | -32.16 |        |       |

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BAM material: code=rh4ta

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### Input: Colorimetric Reflective System ORS18

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

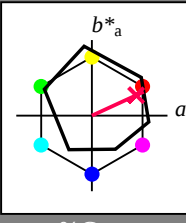
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 75 25

rgb\*Ma: 1.0 0.0 0.32

triangle lightness  $t^*$



relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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 | -0.97 | 4.75 |
| 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 | 0.0 | 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)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 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 | -0.6 | 3.44 |
| LAB*LABa | 76.06 | 0.0  | 0.0  |
| LAB*LABb | 75.00 | 0.01 | 0.0  |

relative CIELAB lab\*

|         |       |      |       |
|---------|-------|------|-------|
| lab*lab | 0.847 | 0.25 | 0.099 |
| lab*tch | 0.875 | 0.25 | 0.069 |
| lab*nch | 0.0   | 0.0  | 0.0   |

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 | 0.999 |

relative Inform. Technology (IT)

|        |      |      |       |        |
|--------|------|------|-------|--------|
| olvi3* | 0.75 | 0.5  | 0.58  | (1.0)  |
| cmyn3* | 0.25 | 0.5  | 0.419 | (0.0)  |
| olvi4* | 1.0  | 0.75 | 0.831 | (0.75) |
| cmyn4* | 0.0  | 0.25 | 0.169 | (0.5)  |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 64.21 | 16.76 | 10.54 |
| LAB*LABa | 64.21 | 17.14 | 7.98  |
| LAB*LABb | 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 | 1.0   |
| lab*nce | 0.25  | 0.25 | 0.999 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 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 | -0.23 | 2.14 |
| LAB*LABa | 56.71 | 0.0   | 0.0  |
| LAB*LABb | 55.00 | 0.01  | 0.0  |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.3 | 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)

|        |      |      |      |        |
|--------|------|------|------|--------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0)  |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0)  |
| olvi4* | 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 | 16.31 | 0.63 |
| LAB*LABa | 37.36 | 0.0   | 0.0  |
| LAB*LABb | 25.00 | 0.01  | 0.0  |

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 | 1.0   |
| lab*nce | 0.25  | 0.25 | 0.999 |

relative Inform. Technology (IT)

|        |      |      |      |        |
|--------|------|------|------|--------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0)  |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0)  |
| olvi4* | 1.0  | 1.0  | 1.0  | (0.25) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.75) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 33.01 | 34.49 | 16.31 |
| LAB*LABa | 33.01 | 34.49 | 0.0   |
| LAB*LABb | 37.36 | 33.01 | 15.18 |

relative CIELAB lab\*

|         |       |     |       |
|---------|-------|-----|-------|
| lab*lab | 0.444 | 0.5 | 0.0   |
| lab*tch | 0.444 | 0.5 | 0.0   |
| lab*nch | 0.25  | 0.5 | 0.100 |

relative Natural Colour (NC)

|         |       |     |       |
|---------|-------|-----|-------|
| lab*trj | 0.444 | 0.5 | 0.0   |
| lab*tce | 0.444 | 0.5 | 0.0   |
| lab*nce | 0.25  | 0.5 | 0.100 |

relative Inform. Technology (IT)

|        |      |      |      |        |
|--------|------|------|------|--------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0)  |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0)  |
| olvi4* | 1.0  | 1.0  | 1.0  | (0.25) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.75) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 33.01 | 34.49 | 16.31 |
| LAB*LABa | 33.01 | 34.49 | 0.0   |
| LAB*LABb | 37.36 | 33.01 | 15.18 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.291 | 0.681 | 0.313 |
| lab*tch | 0.375 | 0.75  | 0.069 |
| lab*nch | 0.25  | 0.75  | 0.069 |

relative Natural Colour (NC)

|         |       |      |     |
|---------|-------|------|-----|
| lab*trj | 0.291 | 0.75 | 0.0 |
| lab*tce | 0.375 | 0.75 | 1.0 |
| lab*nce | 0.25  | 0.75 | 1.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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 | 18.02 | 0.46 |
| LAB*LABa | 18.02 | 0.0   | 0.0  |
| LAB*LABb | 0.01  | 0.01  | 0.0  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.097 | 0.227 | 0.104 |
| lab*tch | 0.125 | 0.25  | 0.069 |
| lab*nch | 0.125 | 0.25  | 0.069 |

relative Natural Colour (NC)

|         |       |      |     |
|---------|-------|------|-----|
| lab*trj | 0.097 | 0.25 | 0.0 |
| lab*tce | 0.125 | 0.25 | 1.0 |
| lab*nce | 0.125 | 0.25 | 1.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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 | 18.02 | 0.46 |
| LAB*LABa | 18.02 | 0.0   | 0.0  |
| LAB*LABb | 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*tce | 0.0 | 0.0 | 0.0 |
| lab*nce | 0.0 | 0.0 | 0.0 |

TE500-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

BAM-test chart TE50; Colorimetric systems ORS18 & MRS18

D65: 2 coordinate data of 5 step colour scales for 10 hues

### Output: Colorimetric Reflective System MRS18

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

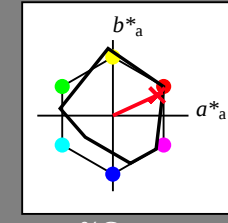
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 73 25

rgb\*Ma: 1.0 0.0 0.1

triangle lightness  $t^*$



relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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 | -0.97 | 4.75 |
| 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 | 0.0 | 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)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 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 | -0.6 | 3.44 |
| LAB*LABa | 76.06 | 0.0  | 0.0  |
| LAB*LABb | 75.00 | 0.01 | 0.0  |

relative CIELAB lab\*

|         |       |      |       |
|---------|-------|------|-------|
| lab*lab | 0.847 | 0.25 | 0.099 |
| lab*tch | 0.875 | 0.25 | 0.069 |
| lab*nch | 0.0   | 0.0  | 0.0   |

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 | 0.999 |

relative Inform. Technology (IT)

|        |      |      |       |        |
|--------|------|------|-------|--------|
| olvi3* | 0.75 | 0.5  | 0.58  | (1.0)  |
| cmyn3* | 0.25 | 0.5  | 0.419 | (0.0)  |
| olvi4* | 1.0  | 0.75 | 0.831 | (0.75) |
| cmyn4* | 0.0  | 0.25 | 0.169 | (0.5)  |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 59.85 | 51.12 | 26.0  |
| LAB*LABa | 59.85 | 51.42 | 23.64 |
| LAB*LABb | 62.5  | 56.39 | 24.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.541 | 0.681 | 0.313 |
| lab*tch | 0.625 | 0.75  | 0.069 |
| lab*nch | 0.25  | 0.75  | 0.069 |

relative Natural Colour (NC)

|         |       |      |       |
|---------|-------|------|-------|
| lab*trj | 0.541 | 0.75 | 0.0   |
| lab*tce | 0.625 | 0.75 | 1.0   |
| lab*nce | 0.25  | 0.75 | 0.999 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (0.5) |
| cmyn4* | 0.0 | 0.0 | 0.0 | (0.5) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 48.01 | 68.48 | 33.09 |
| LAB*LABa | 48.01 | 68.55 | 31.53 |
| LAB*LABb | 50.00 | 75.45 | 24.7  |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.388 | 0.908 | 0.418 |
| lab*tch | 0.5   | 1.0   | 0.069 |
| lab*nch | 0.0   | 1.0   | 0.069 |

relative Natural Colour (NC)

|         |       |     |     |
|---------|-------|-----|-----|
| lab*trj | 0.388 | 1.0 | 0.0 |
| lab*tce | 0.388 | 1.0 | 0.0 |
| lab*nce | 0.0   | 1.0 | 1.0 |

relative Inform. Technology (IT)

|        |      |      |      |        |
|--------|------|------|------|--------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0)  |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0)  |
| olvi4* | 1.0  | 1.0  | 1.0  | (0.25) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.75) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 33.01 | 34.49 | 16.31 |
| LAB*LABa | 33.01 | 34.49 | 0.0   |
| LAB*LABb | 37.36 | 33.01 | 15.18 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.348 | 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 | 0.348 | 0.25 | 0.0   |
| lab*tce | 0.375 | 0.25 | 1.0   |
| lab*nce | 0.25  | 0.25 | 0.999 |

relative Inform. Technology (IT)

|        |      |      |      |        |
|--------|------|------|------|--------|
| olvi3* | 0.25 | 0.25 | 0.25 | (1.0)  |
| cmyn3* | 0.75 | 0.75 | 0.75 | (0.0)  |
| olvi4* | 1.0  | 1.0  | 1.0  | (0.25) |
| cmyn4* | 0.0  | 0.0  | 0.0  | (0.75) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 33.01 | 34.49 | 16.31 |
| LAB*LABa | 33.01 | 34.49 | 0.0   |
| LAB*LABb | 37.36 | 33.01 | 15.18 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.291 | 0.681 | 0.313 |
| lab*tch | 0.375 | 0.75  | 0.069 |
| lab*nch | 0.25  | 0.75  | 0.069 |

relative Natural Colour (NC)

|         |       |      |     |
|---------|-------|------|-----|
| lab*trj | 0.291 | 0.75 | 0.0 |
| lab*tce | 0.375 | 0.75 | 1.0 |
| lab*nce | 0.25  | 0.75 | 1.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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 | 18.02 | 0.46 |
| LAB*LABa | 18.02 | 0.0   | 0.0  |
| LAB*LABb | 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*tce | 0.0 | 0.0 | 0.0 |
| lab*nce | 0.0 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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 | 18.02 | 0.46 |
| LAB*LABa | 18.02 | 0.0   | 0.0  |
| LAB*LABb | 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*tce | 0.0 | 0.0 | 0.0 |
| lab*nce | 0.0 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |         |
|--------|-----|-----|-----|---------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0)   |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0)</ |



### Input: Colorimetric Reflective System ORS18

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

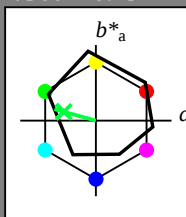
$lab^*tch$  and  $lab^*nch$

D65: hue G

LCH\*Ma: 53 57 164

rgb\*Ma: 0.0 1.0 0.25

triangle lightness  $t^*$



### ORS18; adapted (a) CIELAB data

|      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------|-------------|---------|---------|--------------|--------------|
| QMa  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| YMa  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| LMa  | 50.59       | -62.79  | 34.95   | 71.87        | 151          |
| CMa  | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| VMa  | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| MMa  | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| NMa  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| JCIE | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| GCIE | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| BCIE | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

%Regularity

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

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

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 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 -0.97 4.75  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 1.0 0.812 (1.0)  
cmyn3\* 0.25 0.0 0.388 (0.0)  
olvi4\* 0.75 1.0 0.812 (1.0)  
cmyn4\* 0.25 0.0 0.188 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.75 -14.46 7.85  
LAB\*LABa 84.75 -13.69 3.81  
LAB\*TCHa 87.5 14.22 164.46

relative Inform. Technology (IT)  
olvi3\* 0.5 1.0 0.623 (1.0)  
cmyn3\* 0.5 0.0 0.377 (0.0)  
olvi4\* 0.5 1.0 0.623 (1.0)  
cmyn4\* 0.5 0.0 0.377 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.1 -27.96 10.94  
LAB\*LABa 74.1 -27.29 7.62  
LAB\*TCHa 75.0 28.44 164.46

relative Inform. Technology (IT)  
olvi3\* 0.25 1.0 0.435 (1.0)  
cmyn3\* 0.25 0.0 0.565 (0.0)  
olvi4\* 0.25 1.0 0.435 (1.0)  
cmyn4\* 0.25 0.0 0.565 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 63.45 -41.46 14.03  
LAB\*LABa 63.45 -41.09 11.43  
LAB\*TCHa 62.5 42.66 164.46

relative Inform. Technology (IT)  
olvi3\* 0.0 1.0 0.246 (1.0)  
cmyn3\* 0.0 0.0 0.754 (0.0)  
olvi4\* 0.0 1.0 0.246 (1.0)  
cmyn4\* 0.0 0.0 0.754 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 52.8 -54.95 17.13  
LAB\*LABa 52.8 -54.79 15.24  
LAB\*TCHa 50.0 56.88 164.45

relative Inform. Technology (IT)  
olvi3\* 0.0 0.75 0.188 (1.0)  
cmyn3\* 0.0 0.25 0.812 (0.0)  
olvi4\* 0.0 0.75 0.188 (1.0)  
cmyn4\* 0.0 0.25 0.812 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 44.11 -41.09 12.73  
LAB\*LABa 44.11 -41.09 11.44  
LAB\*TCHa 37.51 42.66 164.45

relative Inform. Technology (IT)  
olvi3\* 0.0 0.5 0.125 (1.0)  
cmyn3\* 0.0 0.5 0.875 (0.0)  
olvi4\* 0.0 0.5 0.125 (1.0)  
cmyn4\* 0.0 0.5 0.875 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 35.41 -27.29 7.63  
LAB\*LABa 35.41 -27.29 7.63  
LAB\*TCHa 25.01 28.44 164.45

relative Inform. Technology (IT)  
olvi3\* 0.0 0.25 0.062 (1.0)  
cmyn3\* 0.0 0.25 0.938 (0.0)  
olvi4\* 0.0 0.25 0.062 (1.0)  
cmyn4\* 0.0 0.25 0.938 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 26.71 -13.69 3.82  
LAB\*LABa 26.71 -13.69 3.82  
LAB\*TCHa 12.5 14.22 164.44

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 0.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 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 0.13 0.63  
LAB\*LABa 37.36 0.0 0.0  
LAB\*TCHa 25.0 0.01

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 (0.25)  
cmyn4\* 0.0 0.0 0.0 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 26.71 -13.69 3.82  
LAB\*LABa 26.71 -13.69 3.82  
LAB\*TCHa 12.5 14.22 164.44

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 0.75 0.75 0.75 (0.25)  
cmyn4\* 0.25 0.25 0.25 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 18.02 0.0 0.0  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TCHa 0.01 0.01

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (0.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (0.0)  
cmyn4\* 1.0 1.0 1.0 (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

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olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
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TE500-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart TE50; Colorimetric systems ORS18 & MRS18

D65: 2 coordinate data of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`

output: `no change compared to input`

output: *no change compared to input*