

## Input: Colorimetric Offset Reflective System ORS18

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

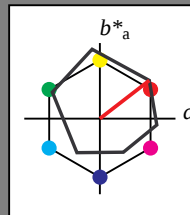
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

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) |
| 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*lab | 1.0 | 0.0 | 0.0 |
| lab*tch | 1.0 | 0.0 | 0.0 |
| lab*nch | 0.0 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|          |       |       |      |       |
|----------|-------|-------|------|-------|
| 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) |
| LAB*LAB  | 76.06 | -0.61 | 3.44 |       |
| LAB*LABa | 76.06 | 0.0   | 0.0  |       |
| LAB*LABb | 75.00 | 0.01  | 0.0  |       |

relative CIELAB lab\*

|         |      |      |      |       |
|---------|------|------|------|-------|
| lab*lab | 0.75 | 0.75 | 0.75 | (1.0) |
| lab*tch | 0.75 | 0.75 | 0.75 | (1.0) |
| lab*nch | 0.25 | 0.25 | 0.25 | (0.0) |

relative Natural Colour (NC)

|         |      |      |      |       |
|---------|------|------|------|-------|
| 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 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) |
| LAB*LAB  | 56.71 | -0.24 | 2.14 |       |
| LAB*LABa | 56.71 | 0.0   | 0.0  |       |
| LAB*LABb | 55.00 | 0.01  | 0.0  |       |

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 | 0.5 | 0.5 | 0.5 | (0.0) |

relative Natural Colour (NC)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.5 | 0.5 | 0.5 | (0.0) |
| lab*tch | 0.5 | 0.5 | 0.5 | (0.0) |
| lab*nch | 0.5 | 0.5 | 0.5 | (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) |
| LAB*LAB  | 37.36 | 0.03 | 0.63 |       |
| LAB*LABa | 37.36 | 0.0  | 0.0  |       |
| LAB*LABb | 35.00 | 0.01 | 0.0  |       |

relative CIELAB lab\*

|         |      |      |      |       |
|---------|------|------|------|-------|
| lab*lab | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*tch | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*nch | 0.75 | 0.75 | 0.75 | (0.0) |

relative Natural Colour (NC)

|         |      |      |      |       |
|---------|------|------|------|-------|
| lab*lab | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*tch | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*nch | 0.75 | 0.75 | 0.75 | (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) |
| LAB*LAB  | 18.02 | 0.03 | 0.47 |       |
| LAB*LABa | 18.02 | 0.0  | 0.0  |       |
| LAB*LABb | 17.00 | 0.01 | 0.0  |       |

relative CIELAB lab\*

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*tch | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*nch | 1.0 | 1.0 | 1.0 | (0.0) |

relative Natural Colour (NC)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*tch | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*nch | 1.0 | 1.0 | 1.0 | (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) |
| LAB*LAB  | 0.01 | 0.01 | 0.01 |       |
| LAB*LABa | 0.01 | 0.0  | 0.0  |       |
| LAB*LABb | 0.01 | 0.0  | 0.0  |       |

relative CIELAB lab\*

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*tch | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*nch | 1.0 | 1.0 | 1.0 | (0.0) |

relative Natural Colour (NC)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*tch | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*nch | 1.0 | 1.0 | 1.0 | (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

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

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$n^* = 1.00$

$n^* = 1.00$

## Output: Colorimetric Television Luminous System TLS00

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

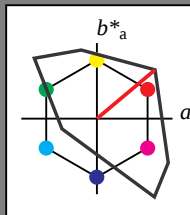
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 158$

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) |
| 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*lab | 1.0 | 0.0 | 0.0 |
| lab*tch | 1.0 | 0.0 | 0.0 |
| lab*nch | 0.0 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|          |       |      |      |       |
|----------|-------|------|------|-------|
| 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) |
| LAB*LAB  | 71.57 | 0.0  | 0.0  |       |
| LAB*LABa | 71.57 | 0.0  | 0.0  |       |
| LAB*LABb | 70.00 | 0.01 | 0.0  |       |

relative CIELAB lab\*

|         |      |      |      |       |
|---------|------|------|------|-------|
| lab*lab | 0.75 | 0.75 | 0.75 | (1.0) |
| lab*tch | 0.75 | 0.75 | 0.75 | (1.0) |
| lab*nch | 0.25 | 0.25 | 0.25 | (0.0) |

relative Natural Colour (NC)

|         |      |      |      |       |
|---------|------|------|------|-------|
| 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 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) |
| LAB*LAB  | 47.72 | 0.0  | 0.0 |       |
| LAB*LABa | 47.72 | 0.0  | 0.0 |       |
| LAB*LABb | 45.00 | 0.01 | 0.0 |       |

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 | 0.5 | 0.5 | 0.5 | (0.0) |

relative Natural Colour (NC)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.5 | 0.5 | 0.5 | (0.0) |
| lab*tch | 0.5 | 0.5 | 0.5 | (0.0) |
| lab*nch | 0.5 | 0.5 | 0.5 | (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) |
| LAB*LAB  | 23.87 | 0.0  | 0.0  |       |
| LAB*LABa | 23.87 | 0.0  | 0.0  |       |
| LAB*LABb | 22.00 | 0.01 | 0.0  |       |

relative CIELAB lab\*

|         |      |      |      |       |
|---------|------|------|------|-------|
| lab*lab | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*tch | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*nch | 0.75 | 0.75 | 0.75 | (0.0) |

relative Natural Colour (NC)

|         |      |      |      |       |
|---------|------|------|------|-------|
| lab*lab | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*tch | 0.25 | 0.25 | 0.25 | (1.0) |
| lab*nch | 0.75 | 0.75 | 0.75 | (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) |
| LAB*LAB  | 0.03 | 0.03 | 0.03 |       |
| LAB*LABa | 0.03 | 0.0  | 0.0  |       |
| LAB*LABb | 0.03 | 0.0  | 0.0  |       |

relative CIELAB lab\*

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*tch | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*nch | 1.0 | 1.0 | 1.0 | (0.0) |

relative Natural Colour (NC)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| lab*lab | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*tch | 0.0 | 0.0 | 0.0 | (1.0) |
| lab*nch | 1.0 | 1.0 | 1.0 | (0.0) |

## TLS00; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

## %Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

output: *no change compared to input*

## Input: Colorimetric Offset Reflective System ORS18

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

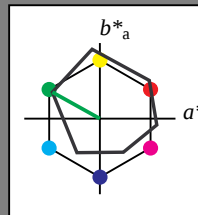
$lab \cdot tch$  and  $lab \cdot nch$

D65: hue L

LCH\*Ma: 51 72 151

olv\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

## ORS18; adapted (a) CIELAB data

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

% Regularity

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

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

1.00

0.75

$n^* = 0.00$

0.25

0.00

chromaticness  $c^*$

$n^* = 0.25$

blackness  $n^*$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

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

|                              |       |        |        |
|------------------------------|-------|--------|--------|
| LAB*1CHa                     | 87.5  | 17.97  | 150.91 |
| relative CIELAB lab*         |       |        |        |
| lab*lab                      | 0.856 | -0.217 | 0.121  |
| lab*tch                      | 0.875 | 0.25   | 0.419  |
| lab*ncH                      | 0.0   | 0.25   | 0.419  |
| relative Natural Colour (NC) |       |        |        |
| lab*lrj                      | 0.856 | -0.238 | 0.072  |
| lab*tce                      | 0.875 | 0.25   | 0.453  |
| lab*ncE                      | 0.0   | 0.25   | j81g   |

## Input: Colorimetric Offset Reflective System ORS18

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

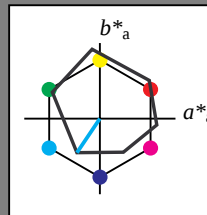
$lab^*tch$  and  $lab^*nch$

D65: hue C

LCH\*Ma: 59 54 236

olv\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



### 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

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness  $c^*$

## Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 196/360 = 0.545$

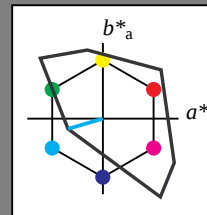
$lab^*tch$  and  $lab^*nch$

D65: hue C

LCH\*Ma: 87 48 196

olv\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



### TLS00; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

### %Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness  $c^*$

OE500-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 196/360 = 0.545 (right)

BAM-test chart OE50; Colorimetric systems ORS18 & TLS00

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

input:  $cmv0^* setcmvcolor$

output: no change compared to input

www.ps.bam.de/OE50/10S/S50E04NP.PS/.PDF; start output  
 N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

# Input: Colorimetric Offset Reflective System ORS18

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

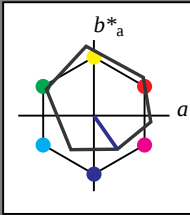
$lab^*tch$  and  $lab^*nch$

D65: hue V

LCH\*Ma: 26 54 305

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |      |
|----------------------------------|------|------|------|
| olv3*                            | 0.75 | 0.75 | 0.75 |
| olv4*                            | 0.75 | 0.75 | 0.75 |
| olv5*                            | 0.75 | 0.75 | 0.75 |
| olv6*                            | 0.75 | 0.75 | 0.75 |
| olv7*                            | 0.75 | 0.75 | 0.75 |
| olv8*                            | 0.75 | 0.75 | 0.75 |
| olv9*                            | 0.75 | 0.75 | 0.75 |
| olv10*                           | 0.75 | 0.75 | 0.75 |
| olv11*                           | 0.75 | 0.75 | 0.75 |
| olv12*                           | 0.75 | 0.75 | 0.75 |
| olv13*                           | 0.75 | 0.75 | 0.75 |
| olv14*                           | 0.75 | 0.75 | 0.75 |
| olv15*                           | 0.75 | 0.75 | 0.75 |
| olv16*                           | 0.75 | 0.75 | 0.75 |
| olv17*                           | 0.75 | 0.75 | 0.75 |
| olv18*                           | 0.75 | 0.75 | 0.75 |
| olv19*                           | 0.75 | 0.75 | 0.75 |
| olv20*                           | 0.75 | 0.75 | 0.75 |

## ORS18; adapted (a) CIELAB data

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

## %Regularity

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

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

# Output: Colorimetric Television Luminous System TLS00

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

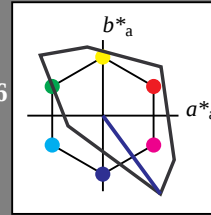
$lab^*tch$  and  $lab^*nch$

D65: hue V

LCH\*Ma: 30 129 306

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 158$

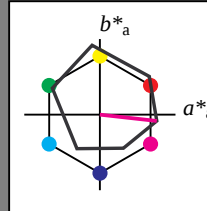
| relative Inform. Technology (IT) |     |     |     |
|----------------------------------|-----|-----|-----|
| olv3*                            | 1.0 | 1.0 | 1.0 |
| olv4*                            | 1.0 | 1.0 | 1.0 |
| olv5*                            | 1.0 | 1.0 | 1.0 |
| olv6*                            | 1.0 | 1.0 | 1.0 |
| olv7*                            | 1.0 | 1.0 | 1.0 |
| olv8*                            | 1.0 | 1.0 | 1.0 |
| olv9*                            | 1.0 | 1.0 | 1.0 |
| olv10*                           | 1.0 | 1.0 | 1.0 |
| olv11*                           | 1.0 | 1.0 | 1.0 |
| olv12*                           | 1.0 | 1.0 | 1.0 |
| olv13*                           | 1.0 | 1.0 | 1.0 |
| olv14*                           | 1.0 | 1.0 | 1.0 |
| olv15*                           | 1.0 | 1.0 | 1.0 |
| olv16*                           | 1.0 | 1.0 | 1.0 |
| olv17*                           | 1.0 | 1.0 | 1.0 |
| olv18*                           | 1.0 | 1.0 | 1.0 |
| olv19*                           | 1.0 | 1.0 | 1.0 |
| olv20*                           | 1.0 | 1.0 | 1.0 |

| relative Inform. Technology (IT) |       |       |           |
|----------------------------------|-------|-------|-----------|
| olv3*                            | 0.75  | 0.75  | 1.0 (1.0) |
| cmyn3*                           | 0.25  | 0.25  | 0.0 (0.0) |
| olv4*                            | 0.75  | 0.75  | 1.0 1.0   |
| cmyn4*                           | 0.25  | 0.25  | 0.0 0.0   |
| standard and adapted CIELAB      |       |       |           |
| LAB*LAB                          | 79.15 | 19.01 | -25.88    |
| LAB*LABa                         | 79.15 | 19.01 | -25.88    |
| LAB*TCHa                         | 87.5  | 32.12 | 306.29    |

## Input: Colorimetric Offset Reflective System ORS18

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

D65: hue M  
LCH\*Ma: 48 76 354  
olv\*Ma: 1.0 0.0 1.0  
triangle lightness  $t^*$



| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L_a^*$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>Ma</sub>                | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>Ma</sub>                | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>Ma</sub>                | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>                | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>Ma</sub>                | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>Ma</sub>                | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>CIE</sub>               | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>               | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>CIE</sub>               | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

%Regularity

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

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

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

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

|                              |       |       |        |      |       |        |
|------------------------------|-------|-------|--------|------|-------|--------|
| LAB*ICHd                     |       |       |        | 87.5 | 18.93 | 553.66 |
| relative CIELAB lab*         |       |       |        |      |       |        |
| lab*lab                      | 0.847 | 0.248 | -0.027 |      |       |        |
| lab*tch                      | 0.875 | 0.25  | 0.982  |      |       |        |
| lab*nc                       | 0.0   | 0.25  | 0.982  |      |       |        |
| relative Natural Colour (NC) |       |       |        |      |       |        |
| lab*lrj                      | 0.847 | 0.227 | -0.103 |      |       |        |
| lab*tce                      | 0.875 | 0.25  | 0.932  |      |       |        |
| lab*ncE                      | 0.0   | 0.25  | b72r   |      |       |        |

### Input: Colorimetric Offset Reflective System ORS18

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

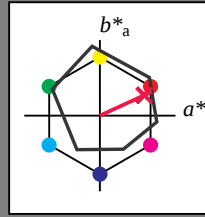
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 75 25

olv\*Ma: 1.0 0.0 0.32

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

### 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

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

$n^* = 3.00$

$n^* = 3.25$

$n^* = 3.50$

$n^* = 3.75$

$n^* = 4.00$

$n^* = 4.25$

$n^* = 4.50$

$n^* = 4.75$

$n^* = 5.00$

$n^* = 5.25$

$n^* = 5.50$

$n^* = 5.75$

$n^* = 6.00$

$n^* = 6.25$

$n^* = 6.50$

$n^* = 6.75$

$n^* = 7.00$

$n^* = 7.25$

$n^* = 7.50$

$n^* = 7.75$

$n^* = 8.00$

$n^* = 8.25$

$n^* = 8.50$

$n^* = 8.75$

$n^* = 9.00$

$n^* = 9.25$

$n^* = 9.50$

$n^* = 9.75$

$n^* = 10.00$

### Output: Colorimetric Television Luminous System TLS00

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

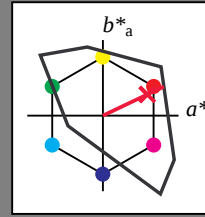
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 52 89 25

olv\*Ma: 1.0 0.0 0.21

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 158$

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) |
| standard and adapted CIELAB |       |     |     |       |
| LAB*LAB                     | 95.41 | 0.0 | 0.0 |       |
| LAB*LAB                     | 95.41 | 0.0 | 0.0 |       |
| LAB*LAB                     | 95.41 | 0.0 | 0.0 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olv3*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv3*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 1.0   | 0.75  | 0.831 | (1.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| olv4*                       | 0.0   | 0.25  | 0.169 | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 83.55 | 16.38 | 11.84 |       |
| LAB*LAB                     | 83.55 | 17.14 | 7.88  |       |
| LAB*LAB                     | 83.55 | 18.86 | 24.69 |       |

|                |     |     |   |
|----------------|-----|-----|---|
| <i>lab*tcE</i> | 0.5 | 0.0 | - |
| <i>lab*ncE</i> | 0.5 | 0.0 | - |

| relative Inform. Technology (IT) |      |      |      |       |
|----------------------------------|------|------|------|-------|
| <i>olv3*</i>                     | 0.25 | 0.25 | 0.25 | (1.0) |
| <i>cmyn3*</i>                    | 0.75 | 0.75 | 0.75 | (0.0) |
| <i>olv4*</i>                     | 1.0  | 1.0  | 1.0  | 0.25  |
| <i>cmyn4*</i>                    | 0.0  | 0.0  | 0.0  | 0.75  |

## Input: Colorimetric Offset Reflective System ORS18

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

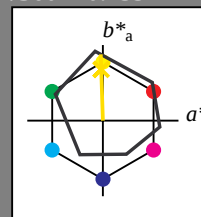
$lab \cdot tch$  and  $lab \cdot nch$

D65: hue J

LCH\*Ma: 86 88 92

olv\*Ma: 1.0 0.9 0.0

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) |
| 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*   | 1.0  | 0.975  | 0.75  | (1.0) |
| cmyn3*  | 0.0  | 0.025  | 0.25  | (0.0) |
| olv4*   | 1.0  | 0.975  | 0.75  | (1.0) |
| cmyn4*  | 0.0  | 0.025  | 0.25  | (0.0) |
| LAB*LAB | 93.1 | -1.64  | 26.52 |       |
| LAB*LAB | 93.1 | -0.7   | 21.92 |       |
| LAB*LAB | 97.5 | -21.93 | 91.85 |       |

relative Inform. Technology (IT)

|         |      |        |       |       |
|---------|------|--------|-------|-------|
| olv3*   | 1.0  | 0.951  | 0.5   | (1.0) |
| cmyn3*  | 0.0  | 0.049  | 0.5   | (0.0) |
| olv4*   | 1.0  | 0.951  | 0.5   | (1.0) |
| cmyn4*  | 0.0  | 0.049  | 0.5   | (0.0) |
| LAB*LAB | 90.8 | -2.3   | 48.29 |       |
| LAB*LAB | 90.8 | -1.4   | 43.84 |       |
| LAB*LAB | 97.5 | -43.86 | 91.85 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.926  | 0.25  | (1.0) |
| cmyn3*  | 0.0   | 0.074  | 0.25  | (0.0) |
| olv4*   | 1.0   | 0.926  | 0.25  | (1.0) |
| cmyn4*  | 0.0   | 0.074  | 0.25  | (0.0) |
| LAB*LAB | 88.49 | -2.96  | 70.05 |       |
| LAB*LAB | 88.49 | -1.1   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.901  | 0.0   | (1.0) |
| cmyn3*  | 0.0   | 0.099  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.901  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.099  | 0.0   | (0.0) |
| LAB*LAB | 86.15 | -3.62  | 91.81 |       |
| LAB*LAB | 86.15 | -2.81  | 87.87 |       |
| LAB*LAB | 97.5  | -87.72 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.875  | 0.0   | (1.0) |
| cmyn3*  | 0.0   | 0.125  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.875  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.125  | 0.0   | (0.0) |
| LAB*LAB | 84.72 | -4.00  | 91.81 |       |
| LAB*LAB | 84.72 | -3.19  | 87.87 |       |
| LAB*LAB | 97.5  | -87.72 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.850  | 0.0   | (1.0) |
| cmyn3*  | 0.0   | 0.150  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.850  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.150  | 0.0   | (0.0) |
| LAB*LAB | 82.50 | -4.38  | 91.81 |       |
| LAB*LAB | 82.50 | -3.57  | 87.87 |       |
| LAB*LAB | 97.5  | -87.72 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.825  | 0.0   | (1.0) |
| cmyn3*  | 0.0   | 0.175  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.825  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.175  | 0.0   | (0.0) |
| LAB*LAB | 80.25 | -4.75  | 91.81 |       |
| LAB*LAB | 80.25 | -3.94  | 87.87 |       |
| LAB*LAB | 97.5  | -87.72 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.800  | 0.0   | (1.0) |
| cmyn3*  | 0.0   | 0.200  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.800  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.200  | 0.0   | (0.0) |
| LAB*LAB | 78.00 | -5.13  | 91.81 |       |
| LAB*LAB | 78.00 | -4.32  | 87.87 |       |
| LAB*LAB | 97.5  | -87.72 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.775  | 0.0   | (1.0) |
| cmyn3*  | 0.0   | 0.225  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.775  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.225  | 0.0   | (0.0) |
| LAB*LAB | 75.75 | -5.50  | 91.81 |       |
| LAB*LAB | 75.75 | -4.69  | 87.87 |       |
| LAB*LAB | 97.5  | -87.72 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 1.0   | 0.750  | 0.0   | (1.0) |
| cmyn3*  | 0.0   | 0.250  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.750  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.250  | 0.0   | (0.0) |
| LAB*LAB | 73.50 | -5.88  | 91.81 |       |
| LAB*LAB | 73.50 | -5.07  | 87.87 |       |
| LAB*LAB | 97.5  | -87.72 | 91.84 |       |

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) |
| 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  | 0.725  | 0.5   | (1.0) |
| cmyn3*  | 0.25  | 0.275  | 0.5   | (0.0) |
| olv4*   | 1.0   | 0.975  | 0.75  | (1.0) |
| cmyn4*  | 0.0   | 0.025  | 0.25  | (0.0) |
| LAB*LAB | 73.75 | -1.27  | 25.22 |       |
| LAB*LAB | 73.75 | -0.69  | 21.92 |       |
| LAB*LAB | 97.5  | -21.93 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.701  | 0.25  | (1.0) |
| cmyn3*  | 0.25  | 0.299  | 0.75  | (0.0) |
| olv4*   | 1.0   | 0.951  | 0.5   | (1.0) |
| cmyn4*  | 0.0   | 0.049  | 0.5   | (0.0) |
| LAB*LAB | 71.45 | -1.92  | 46.98 |       |
| LAB*LAB | 71.45 | -1.4   | 43.84 |       |
| LAB*LAB | 97.5  | -43.86 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.675  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.325  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.926  | 0.25  | (1.0) |
| cmyn4*  | 0.0   | 0.074  | 0.25  | (0.0) |
| LAB*LAB | 69.14 | -2.58  | 68.74 |       |
| LAB*LAB | 69.14 | -2.1   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.650  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.350  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.875  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.125  | 0.0   | (0.0) |
| LAB*LAB | 67.00 | -2.88  | 68.74 |       |
| LAB*LAB | 67.00 | -2.4   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.625  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.375  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.850  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.150  | 0.0   | (0.0) |
| LAB*LAB | 64.75 | -3.17  | 68.74 |       |
| LAB*LAB | 64.75 | -2.7   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.600  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.400  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.825  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.175  | 0.0   | (0.0) |
| LAB*LAB | 62.50 | -3.55  | 68.74 |       |
| LAB*LAB | 62.50 | -3.1   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.575  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.425  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.800  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.200  | 0.0   | (0.0) |
| LAB*LAB | 60.25 | -3.94  | 68.74 |       |
| LAB*LAB | 60.25 | -3.5   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.550  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.450  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.775  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.225  | 0.0   | (0.0) |
| LAB*LAB | 58.00 | -4.32  | 68.74 |       |
| LAB*LAB | 58.00 | -3.9   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.525  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.475  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.750  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.250  | 0.0   | (0.0) |
| LAB*LAB | 55.75 | -4.70  | 68.74 |       |
| LAB*LAB | 55.75 | -4.3   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.75  | 0.500  | 0.0   | (1.0) |
| cmyn3*  | 0.25  | 0.500  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.725  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.275  | 0.0   | (0.0) |
| LAB*LAB | 53.50 | -5.08  | 68.74 |       |
| LAB*LAB | 53.50 | -4.7   | 65.76 |       |
| LAB*LAB | 97.5  | -65.79 | 91.84 |       |

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) |
| 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*   | 0.5  | 0.475  | 0.25  | (1.0) |
| cmyn3*  | 0.5  | 0.525  | 0.75  | (0.0) |
| olv4*   | 1.0  | 0.975  | 0.75  | (1.0) |
| cmyn4*  | 0.0  | 0.025  | 0.25  | (0.0) |
| LAB*LAB | 54.4 | -0.89  | 23.91 |       |
| LAB*LAB | 54.4 | -0.69  | 21.92 |       |
| LAB*LAB | 97.5 | -21.93 | 91.84 |       |

relative Inform. Technology (IT)

|         |      |        |       |       |
|---------|------|--------|-------|-------|
| olv3*   | 0.5  | 0.451  | 0.0   | (1.0) |
| cmyn3*  | 0.5  | 0.549  | 0.0   | (0.0) |
| olv4*   | 1.0  | 0.951  | 0.5   | (1.0) |
| cmyn4*  | 0.0  | 0.049  | 0.5   | (0.0) |
| LAB*LAB | 52.1 | -1.39  | 43.84 |       |
| LAB*LAB | 52.1 | -1.4   | 43.84 |       |
| LAB*LAB | 97.5 | -43.86 | 91.84 |       |

relative Inform. Technology (IT)

|         |      |        |       |       |
|---------|------|--------|-------|-------|
| olv3*   | 0.5  | 0.426  | 0.0   | (1.0) |
| cmyn3*  | 0.5  | 0.574  | 0.0   | (0.0) |
| olv4*   | 1.0  | 0.926  | 0.25  | (1.0) |
| cmyn4*  | 0.0  | 0.074  | 0.25  | (0.0) |
| LAB*LAB | 50.0 | -1.77  | 46.98 |       |
| LAB*LAB | 50.0 | -1.8   | 46.98 |       |
| LAB*LAB | 97.5 | -46.98 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.5   | 0.401  | 0.0   | (1.0) |
| cmyn3*  | 0.5   | 0.599  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.875  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.125  | 0.0   | (0.0) |
| LAB*LAB | 47.75 | -2.06  | 46.98 |       |
| LAB*LAB | 47.75 | -2.1   | 46.98 |       |
| LAB*LAB | 97.5  | -46.98 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.5   | 0.376  | 0.0   | (1.0) |
| cmyn3*  | 0.5   | 0.624  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.850  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.150  | 0.0   | (0.0) |
| LAB*LAB | 45.50 | -2.44  | 46.98 |       |
| LAB*LAB | 45.50 | -2.5   | 46.98 |       |
| LAB*LAB | 97.5  | -46.98 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.5   | 0.351  | 0.0   | (1.0) |
| cmyn3*  | 0.5   | 0.649  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.825  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.175  | 0.0   | (0.0) |
| LAB*LAB | 43.25 | -2.82  | 46.98 |       |
| LAB*LAB | 43.25 | -2.9   | 46.98 |       |
| LAB*LAB | 97.5  | -46.98 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.5   | 0.326  | 0.0   | (1.0) |
| cmyn3*  | 0.5   | 0.674  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.800  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.200  | 0.0   | (0.0) |
| LAB*LAB | 41.00 | -3.20  | 46.98 |       |
| LAB*LAB | 41.00 | -3.3   | 46.98 |       |
| LAB*LAB | 97.5  | -46.98 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.5   | 0.301  | 0.0   | (1.0) |
| cmyn3*  | 0.5   | 0.700  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.775  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.225  | 0.0   | (0.0) |
| LAB*LAB | 38.75 | -3.58  | 46.98 |       |
| LAB*LAB | 38.75 | -3.7   | 46.98 |       |
| LAB*LAB | 97.5  | -46.98 | 91.84 |       |

relative Inform. Technology (IT)

|         |       |        |       |       |
|---------|-------|--------|-------|-------|
| olv3*   | 0.5   | 0.276  | 0.0   | (1.0) |
| cmyn3*  | 0.5   | 0.725  | 0.0   | (0.0) |
| olv4*   | 1.0   | 0.750  | 0.0   | (1.0) |
| cmyn4*  | 0.0   | 0.250  | 0.0   | (0.0) |
| LAB*LAB | 36.50 | -3.96  | 46.98 |       |
| LAB*LAB | 36.50 | -4.1   | 46.98 |       |
| LAB*LAB | 97.5  | -46.98 | 91.84 |       |

Page: 8

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Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

Page count: 9

www.ps.bam.de/OE50/10S/S50E08NP.PS/.PDF; start output  
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

Input: Colorimetric Offset Reflective System ORS18

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

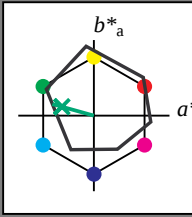
$lab^*tch$  and  $lab^*nch$

D65: hue G

LCH\*Ma: 53 57 164

olv\*Ma: 0.0 1.0 0.25

triangle lightness  $t^*$



% 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 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)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (0.5)  
cmyn4\* 0.0 0.0 0.0 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 56.71 -0.24 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*LABb 55.00 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)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (0.25)  
cmyn4\* 0.0 0.0 0.0 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 37.36 -0.03 0.83  
LAB\*LABa 37.36 0.0 0.0  
LAB\*LABb 35.00 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)  
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\*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 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 (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\*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 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

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 0.5 (1.0)  
cmyn3\* 0.5 0.0 0.5 (0.0)  
olv4\* 0.5 1.0 0.5 (0.5)  
cmyn4\* 0.5 0.0 0.5 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 74.1 -27.98 10.94  
LAB\*LABa 74.1 -27.4 7.62  
LAB\*LABb 75.0 28.45 164.46

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

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.25 (0.0)  
olv4\* 0.5 1.0 0.5 (0.25)  
cmyn4\* 0.5 0.0 0.5 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 54.76 -27.61 9.64  
LAB\*LABa 54.76 -27.41 7.63  
LAB\*LABb 50.0 28.46 164.45

relative CIELAB lab\*  
lab\*lab 0.475 -0.481 0.134  
lab\*tch 0.5 0.5 0.457  
lab\*nch 0.0 0.5 0.457  
relative Natural Colour (NC)  
lab\*trj 0.475 -0.481 0.134  
lab\*tce 0.5 0.5 0.457  
lab\*nce 0.0 0.5 0.457

relative Inform. Technology (IT)  
olv3\* 0.0 0.75 0.188 (1.0)  
cmyn3\* 1.0 0.5 0.877 (0.0)  
olv4\* 0.5 1.0 0.623 (0.0)  
cmyn4\* 0.5 0.0 0.377 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 35.41 -27.24 7.63  
LAB\*LABa 35.41 -27.4 7.63  
LAB\*LABb 25.01 28.46 164.44

relative CIELAB lab\*  
lab\*lab 0.337 -0.721 0.201  
lab\*tch 0.375 0.75 0.457  
lab\*nch 0.0 0.75 0.457  
relative Natural Colour (NC)  
lab\*trj 0.337 -0.721 0.201  
lab\*tce 0.375 0.75 0.457  
lab\*nce 0.0 0.75 0.457

relative Inform. Technology (IT)  
olv3\* 0.0 0.5 0.0 (1.0)  
cmyn3\* 1.0 0.5 0.0 (0.0)  
olv4\* 0.5 1.0 0.0 (0.5)  
cmyn4\* 0.5 0.0 0.0 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 25.01 28.46 164.44  
LAB\*LABa 25.01 28.46 164.44  
LAB\*LABb 25.01 28.46 164.44

relative CIELAB lab\*  
lab\*lab 0.225 -0.481 0.134  
lab\*tch 0.25 0.5 0.457  
lab\*nch 0.0 0.5 0.457  
relative Natural Colour (NC)  
lab\*trj 0.225 -0.481 0.134  
lab\*tce 0.25 0.5 0.457  
lab\*nce 0.0 0.5 0.457

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 162/360 = 0.451$

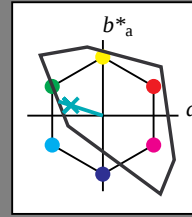
$lab^*tch$  and  $lab^*nch$

D65: hue G

LCH\*Ma: 86 62 162

olv\*Ma: 0.0 1.0 0.65

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 158$

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 71.57 0.0 0.0  
LAB\*LABa 71.57 0.0 0.0  
LAB\*LABb 75.00 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)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (0.5)  
cmyn4\* 0.0 0.0 0.0 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 52.8 -54.81 15.26  
LAB\*LABa 52.8 -54.81 15.26  
LAB\*LABb 50.0 56.91 164.45

relative CIELAB lab\*  
lab\*lab 0.45 -0.962 0.268  
lab\*tch 0.5 1.0 0.457  
lab\*nch 0.0 1.0 0.457  
relative Natural Colour (NC)  
lab\*trj 0.45 -0.999 0.0  
lab\*tce 0.5 1.0 0.457  
lab\*nce 0.0 1.0 0.457

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (0.25)  
cmyn4\* 0.0 0.0 0.0 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 23.87 0.0 0.0  
LAB\*LABa 23.87 0.0 0.0  
LAB\*LABb 25.01 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)  
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 0.03 0.0 0.0  
LAB\*LABa 0.03 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 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 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 0.03 0.0 0.0  
LAB\*LABa 0.03 0.0 0.0  
LAB\*LABb 0.01 0.01 0.0

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

TLS00; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

%Regularity

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

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

relative Inform. Technology (IT)  
olv3\* 0.5 1.0 0.5 (1.0)  
cmyn3\* 0.5 0.0 0.5 (0.0)  
olv4\* 0.5 1.0 0.5 (0.5)  
cmyn4\* 0.5 0.0 0.5 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 90.57 -29.42 9.43  
LAB\*LABa 90.57 -29.42 9.43  
LAB\*LABb 90.57 -29.42 9.43

relative CIELAB lab\*  
lab\*lab 0.949 -0.475 0.153  
lab\*tch 0.75 0.5 0.451  
lab\*nch 0.0 0.5 0.451  
relative Natural Colour (NC)  
lab\*trj 0.949 -0.499 0.0  
lab\*tce 0.75 0.5 0.451  
lab\*nce 0.0 0.5 0.451

relative Inform. Technology (IT)  
olv3\* 0.25 0.5 0.25 (1.0)  
cmyn3\* 0.75 0.25 0.25 (0.0)  
olv4\* 0.5 1.0 0.5 (0.25)  
cmyn4\* 0.5 0.0 0.5 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 66.73 -29.42 9.44  
LAB\*LABa 66.73 -29.42 9.44  
LAB\*LABb 50.0 30.91 162.22

relative CIELAB lab\*  
lab\*lab 0.674 -0.713 0.229  
lab\*tch 0.5 0.5 0.451  
lab\*nch 0.0 0.5 0.451  
relative Natural Colour (NC)  
lab\*trj 0.699 -0.499 0.0  
lab\*tce 0.625 0.5 0.451  
lab\*nce 0.0 0.5 0.451

relative Inform. Technology (IT)  
olv3\* 0.0 0.75 0.188 (1.0)  
cmyn3\* 1.0 0.5 0.877 (0.0)  
olv4\* 0.5 1.0 0.623 (0.0)  
cmyn4\* 0.5 0.0 0.377 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 42.88 -54.81 15.26  
LAB\*LABa 42.88 -54.81 15.26  
LAB\*LABb 50.0 56.91 164.45

relative CIELAB lab\*  
lab\*lab 0.475 -0.962 0.268  
lab\*tch 0.5 1.0 0.457  
lab\*nch 0.0 1.0 0.457  
relative Natural Colour (NC)  
lab\*trj 0.475 -0.999 0.0  
lab\*tce 0.5 1.0 0.457  
lab\*nce 0.0 1.0 0.457

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (0.25)  
cmyn4\* 0.0 0.0 0.0 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 23.87 0.0 0.0  
LAB\*LABa 23.87 0.0 0.0  
LAB\*LABb 25.01 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)  
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 0.03 0.0 0.0  
LAB\*LABa 0.03 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 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*trj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 0.0  
lab\*nce 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

OE500-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

BAM-test chart OE50; Colorimetric systems ORS18 & TLS00

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

input: `cmv0* setcmvcolor`

output: `no change compared to input`

