

# Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 38/360 = 0.106$

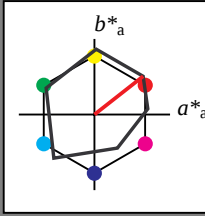
$lab^*tch$  and  $lab^*nch$

A: hue O

LCH\*Ma: 48 82 38

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



$u^*_{rel} = 96$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |     |
|----------|-------|------|-----|
| LAB*LAB  | 95.6  | 0.0  | 0.0 |
| LAB*LABa | 95.6  | 0.0  | 0.0 |
| LAB*LABb | 99.99 | 0.01 | -   |

relative CIELAB lab\*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |      |
|----------|-------|------|------|
| LAB*LAB  | 76.23 | 0.02 | 3.36 |
| LAB*LABa | 76.23 | 0.0  | 0.0  |
| LAB*LABb | 76.23 | 0.0  | 0.0  |

relative CIELAB lab\*

|         |      |     |     |
|---------|------|-----|-----|
| lab*lab | 0.75 | 0.0 | 0.0 |
| lab*tch | 0.75 | 0.0 | -   |
| lab*nch | 0.0  | 0.0 | -   |

relative Natural Colour (NC)

|         |      |     |     |
|---------|------|-----|-----|
| lab*trj | 0.75 | 0.0 | 0.0 |
| lab*tce | 0.25 | 0.0 | -   |
| lab*nce | 0.25 | 0.0 | -   |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |     |      |
|----------|-------|-----|------|
| LAB*LAB  | 56.89 | 0.0 | 2.08 |
| LAB*LABa | 56.89 | 0.0 | 0.0  |
| LAB*LABb | 56.89 | 0.0 | 0.0  |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.0 | 0.0 |
| lab*tch | 0.5 | 0.0 | -   |
| lab*nch | 0.0 | 0.0 | -   |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*tce | 0.5 | 0.0 | -   |
| lab*nce | 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) |

standard and adapted CIELAB

|          |       |      |      |
|----------|-------|------|------|
| LAB*LAB  | 37.49 | 0.99 | 0.79 |
| LAB*LABa | 37.49 | 0.0  | 0.0  |
| LAB*LABb | 37.49 | 0.0  | 0.0  |

relative CIELAB lab\*

|         |      |     |     |
|---------|------|-----|-----|
| lab*lab | 0.25 | 0.0 | 0.0 |
| lab*tch | 0.25 | 0.0 | -   |
| lab*nch | 0.0  | 0.0 | -   |

relative Natural Colour (NC)

|         |      |     |     |
|---------|------|-----|-----|
| lab*trj | 0.25 | 0.0 | 0.0 |
| lab*tce | 0.25 | 0.0 | -   |
| lab*nce | 0.25 | 0.0 | -   |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.12 | 1.18 | -0.49 |
| LAB*LABa | 18.12 | 0.0  | 0.0   |
| LAB*LABb | 18.12 | 0.0  | 0.0   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.0 | 0.0 | 0.0 |
| lab*tch | 0.0 | 0.0 | -   |
| lab*nch | 0.0 | 0.0 | -   |

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.12 | 1.18 | -0.49 |
| LAB*LABa | 18.12 | 0.0  | 0.0   |
| LAB*LABb | 18.12 | 0.0  | 0.0   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.0 | 0.0 | 0.0 |
| lab*tch | 0.0 | 0.0 | -   |
| lab*nch | 0.0 | 0.0 | -   |

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 83.68 | 16.84 | 16.51 |
| LAB*LABa | 83.68 | 16.84 | 16.51 |
| LAB*LABb | 83.68 | 16.84 | 16.51 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.846 | 0.197 | 0.154 |
| lab*tch | 0.875 | 0.25  | 0.106 |
| lab*nch | 0.0   | 0.25  | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.846 | 0.248 | 0.032 |
| lab*tce | 0.875 | 0.25  | 0.02  |
| lab*nce | 0.0   | 0.25  | 0.08  |

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.5  | 0.5  | (1.0) |
| cmyn3* | 0.25 | 0.5  | 0.5  | (0.0) |
| olvi4* | 1.0  | 0.75 | 0.75 | (1.0) |
| cmyn4* | 0.0  | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 64.31 | 16.84 | 15.22 |
| LAB*LABa | 64.31 | 16.84 | 15.22 |
| LAB*LABb | 64.31 | 16.84 | 15.22 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.596 | 0.197 | 0.154 |
| lab*tch | 0.625 | 0.25  | 0.106 |
| lab*nch | 0.25  | 0.25  | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.596 | 0.248 | 0.032 |
| lab*tce | 0.625 | 0.25  | 0.02  |
| lab*nce | 0.25  | 0.25  | 0.08  |

relative Inform. Technology (IT)

|        |     |      |      |       |
|--------|-----|------|------|-------|
| olvi3* | 0.5 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.5 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | (1.0) |
| cmyn4* | 0.0 | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 44.94 | 17.02 | 13.94 |
| LAB*LABa | 44.94 | 17.02 | 13.94 |
| LAB*LABb | 44.94 | 17.02 | 13.94 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.346 | 0.197 | 0.154 |
| lab*tch | 0.375 | 0.25  | 0.106 |
| lab*nch | 0.25  | 0.25  | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.346 | 0.248 | 0.032 |
| lab*tce | 0.375 | 0.25  | 0.02  |
| lab*nce | 0.25  | 0.25  | 0.08  |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 33.03 | 33.24 | 25.79 |
| LAB*LABa | 33.03 | 33.24 | 25.79 |
| LAB*LABb | 33.03 | 33.24 | 25.79 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.193 | 0.393 | 0.309 |
| lab*tch | 0.25  | 0.5   | 0.106 |
| lab*nch | 0.25  | 0.5   | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.193 | 0.496 | 0.064 |
| lab*tce | 0.25  | 0.5   | 0.02  |
| lab*nce | 0.25  | 0.5   | 0.08  |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.12 | 1.18 | -0.49 |
| LAB*LABa | 18.12 | 0.0  | 0.0   |
| LAB*LABb | 18.12 | 0.0  | 0.0   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.0 | 0.0 | 0.0 |
| lab*tch | 0.0 | 0.0 | -   |
| lab*nch | 0.0 | 0.0 | -   |

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.12 | 1.18 | -0.49 |
| LAB*LABa | 18.12 | 0.0  | 0.0   |
| LAB*LABb | 18.12 | 0.0  | 0.0   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.0 | 0.0 | 0.0 |
| lab*tch | 0.0 | 0.0 | -   |
| lab*nch | 0.0 | 0.0 | -   |

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |      |      |       |
|----------|------|------|-------|
| LAB*LAB  | 71.7 | 32.2 | 25.28 |
| LAB*LABa | 71.7 | 32.2 | 25.28 |
| LAB*LABb | 71.7 | 32.2 | 25.28 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.692 | 0.393 | 0.309 |
| lab*tch | 0.75  | 0.5   | 0.106 |
| lab*nch | 0.0   | 0.5   | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.692 | 0.496 | 0.064 |
| lab*tce | 0.75  | 0.5   | 0.02  |
| lab*nce | 0.0   | 0.5   | 0.08  |

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0  | 0.5  | 0.5  | (1.0) |
| cmyn4* | 0.0  | 0.5  | 0.5  | (0.0) |

standard and adapted CIELAB

|          |      |       |       |
|----------|------|-------|-------|
| LAB*LAB  | 52.4 | 33.08 | 27.08 |
| LAB*LABa | 52.4 | 33.08 | 27.08 |
| LAB*LABb | 52.4 | 33.08 | 27.08 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.442 | 0.393 | 0.309 |
| lab*tch | 0.5   | 0.5   | 0.106 |
| lab*nch | 0.25  | 0.5   | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.442 | 0.496 | 0.064 |
| lab*tce | 0.5   | 0.5   | 0.02  |
| lab*nce | 0.25  | 0.5   | 0.08  |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 40.49 | 49.27 | 38.93 |
| LAB*LABa | 40.49 | 49.27 | 38.93 |
| LAB*LABb | 40.49 | 49.27 | 38.93 |

relative CIELAB lab\*

|         |       |      |       |
|---------|-------|------|-------|
| lab*lab | 0.289 | 0.59 | 0.463 |
| lab*tch | 0.375 | 0.75 | 0.106 |
| lab*nch | 0.25  | 0.75 | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.289 | 0.744 | 0.096 |
| lab*tce | 0.375 | 0.75  | 0.02  |
| lab*nce | 0.25  | 0.75  | 0.08  |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 33.03 | 33.24 | 25.79 |
| LAB*LABa | 33.03 | 33.24 | 25.79 |
| LAB*LABb | 33.03 | 33.24 | 25.79 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.193 | 0.393 | 0.309 |
| lab*tch | 0.25  | 0.5   | 0.106 |
| lab*nch | 0.25  | 0.5   | 0.106 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*trj | 0.193 | 0.496 | 0.064 |
| lab*tce | 0.25  | 0.5   | 0.02  |
| lab*nce | 0.25  | 0.5   | 0.08  |

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.12 | 1.18 | -0.49 |
| LAB*LABa | 18.12 | 0.0  | 0.0   |
| LAB*LABb | 18.12 | 0.0  | 0.0   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.0 | 0.0 | 0.0 |
| lab*tch | 0.0 | 0.0 | -   |
| lab*nch | 0.0 | 0.0 | -   |

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

|          |       |      |       |
|----------|-------|------|-------|
| LAB*LAB  | 18.12 | 1.18 | -0.49 |
| LAB*LABa | 18.12 | 0.0  | 0.0   |
| LAB*LABb | 18.12 | 0.0  | 0.0   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.0 | 0.0 | 0.0 |
| lab*tch | 0.0 | 0.0 | -   |
| lab*nch | 0.0 | 0.0 | -   |

relative Natural Colour (NC)

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

|    |        |        |
|----|--------|--------|
| 79 | 60.85  | 41.08  |
| 32 | 6.52   | 66.9   |
| 0  | -36.83 | 2.78   |
| 14 | -18.35 | -56.22 |

%Re

$g^*_{H,Re}$

$g^*_{H,Re}$