

4

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### Input: Colorimetric Reflective System MRS18a

for hue  $h^* = lab^*h = 94/360 = 0.262$

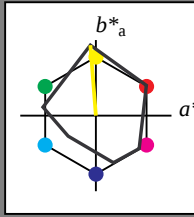
$lab^*tch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 91 93 94

rgb\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



$u^*_{rel} = 92$

relative Inform. Technology (IT)

|                             |       |      |     |       |
|-----------------------------|-------|------|-----|-------|
| olvi3*                      | 1.0   | 1.0  | 1.0 | (1.0) |
| olvi3*                      | 0.0   | 0.0  | 0.0 | (0.0) |
| olvi4*                      | 1.0   | 1.0  | 1.0 | (1.0) |
| olvi4*                      | 0.0   | 0.0  | 0.0 | (0.0) |
| olvi5*                      | 1.0   | 1.0  | 1.0 | (1.0) |
| olvi5*                      | 0.0   | 0.0  | 0.0 | (0.0) |
| standard and adapted CIELAB |       |      |     |       |
| LAB*LAB                     | 95.41 | 0.01 | 0.0 |       |
| LAB*LAB                     | 95.41 | 0.01 | 0.0 |       |
| LAB*TCRa                    | 99.99 | 0.01 | 0.0 |       |

relative Inform. Technology (IT)

|                             |       |      |       |       |
|-----------------------------|-------|------|-------|-------|
| olvi3*                      | 1.0   | 1.0  | 0.75  | (1.0) |
| olvi3*                      | 0.0   | 0.0  | 0.25  | (0.0) |
| olvi4*                      | 1.0   | 1.0  | 0.75  | (1.0) |
| olvi4*                      | 0.0   | 0.0  | 0.25  | (0.0) |
| olvi5*                      | 1.0   | 1.0  | 0.75  | (1.0) |
| olvi5*                      | 0.0   | 0.0  | 0.25  | (0.0) |
| standard and adapted CIELAB |       |      |       |       |
| LAB*LAB                     | 94.22 | -1.8 | 23.29 |       |
| LAB*LAB                     | 94.22 | -1.8 | 23.29 |       |
| LAB*TCRa                    | 94.22 | -1.8 | 23.29 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 1.0   | 1.0   | 0.5   | (1.0) |
| olvi3*                      | 0.0   | 0.0   | 0.5   | (0.0) |
| olvi4*                      | 1.0   | 1.0   | 0.5   | (1.0) |
| olvi4*                      | 0.0   | 0.0   | 0.5   | (0.0) |
| olvi5*                      | 1.0   | 1.0   | 0.5   | (1.0) |
| olvi5*                      | 0.0   | 0.0   | 0.5   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 93.05 | -3.61 | 46.59 |       |
| LAB*LAB                     | 93.05 | -3.61 | 46.59 |       |
| LAB*TCRa                    | 93.05 | -3.61 | 46.59 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 1.0   | 1.0   | 0.25  | (1.0) |
| olvi3*                      | 0.0   | 0.0   | 0.25  | (0.0) |
| olvi4*                      | 1.0   | 1.0   | 0.25  | (1.0) |
| olvi4*                      | 0.0   | 0.0   | 0.25  | (0.0) |
| olvi5*                      | 1.0   | 1.0   | 0.25  | (1.0) |
| olvi5*                      | 0.0   | 0.0   | 0.25  | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 91.87 | -5.43 | 69.89 |       |
| LAB*LAB                     | 91.87 | -5.43 | 69.89 |       |
| LAB*TCRa                    | 91.87 | -5.43 | 69.89 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 1.0   | 1.0   | 0.0   | (1.0) |
| olvi3*                      | 0.0   | 0.0   | 0.0   | (0.0) |
| olvi4*                      | 1.0   | 1.0   | 0.0   | (1.0) |
| olvi4*                      | 0.0   | 0.0   | 0.0   | (0.0) |
| olvi5*                      | 1.0   | 1.0   | 0.0   | (1.0) |
| olvi5*                      | 0.0   | 0.0   | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 90.99 | -7.25 | 93.17 |       |
| LAB*LAB                     | 90.99 | -7.25 | 93.17 |       |
| LAB*TCRa                    | 90.99 | -7.25 | 93.17 |       |

relative Inform. Technology (IT)

|                             |       |      |      |       |
|-----------------------------|-------|------|------|-------|
| olvi3*                      | 0.75  | 0.75 | 0.75 | (1.0) |
| olvi3*                      | 0.25  | 0.25 | 0.25 | (0.0) |
| olvi4*                      | 0.75  | 0.75 | 0.75 | (1.0) |
| olvi4*                      | 0.25  | 0.25 | 0.25 | (0.0) |
| olvi5*                      | 0.75  | 0.75 | 0.75 | (1.0) |
| olvi5*                      | 0.25  | 0.25 | 0.25 | (0.0) |
| standard and adapted CIELAB |       |      |      |       |
| LAB*LAB                     | 76.06 | 0.03 | 0.0  |       |
| LAB*LAB                     | 76.06 | 0.03 | 0.0  |       |
| LAB*TCRa                    | 76.06 | 0.03 | 0.0  |       |

relative Inform. Technology (IT)

|                             |       |       |      |       |
|-----------------------------|-------|-------|------|-------|
| olvi3*                      | 0.75  | 0.75  | 0.5  | (1.0) |
| olvi3*                      | 0.25  | 0.25  | 0.5  | (0.0) |
| olvi4*                      | 0.75  | 0.75  | 0.5  | (1.0) |
| olvi4*                      | 0.25  | 0.25  | 0.5  | (0.0) |
| olvi5*                      | 0.75  | 0.75  | 0.5  | (1.0) |
| olvi5*                      | 0.25  | 0.25  | 0.5  | (0.0) |
| standard and adapted CIELAB |       |       |      |       |
| LAB*LAB                     | 74.88 | -1.78 | 23.3 |       |
| LAB*LAB                     | 74.88 | -1.78 | 23.3 |       |
| LAB*TCRa                    | 74.88 | -1.78 | 23.3 |       |

relative Inform. Technology (IT)

|                             |      |       |      |       |
|-----------------------------|------|-------|------|-------|
| olvi3*                      | 0.75 | 0.75  | 0.25 | (1.0) |
| olvi3*                      | 0.25 | 0.25  | 0.25 | (0.0) |
| olvi4*                      | 0.75 | 0.75  | 0.25 | (1.0) |
| olvi4*                      | 0.25 | 0.25  | 0.25 | (0.0) |
| olvi5*                      | 0.75 | 0.75  | 0.25 | (1.0) |
| olvi5*                      | 0.25 | 0.25  | 0.25 | (0.0) |
| standard and adapted CIELAB |      |       |      |       |
| LAB*LAB                     | 73.7 | -3.59 | 46.6 |       |
| LAB*LAB                     | 73.7 | -3.59 | 46.6 |       |
| LAB*TCRa                    | 73.7 | -3.59 | 46.6 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.75  | 0.75  | 0.0   | (1.0) |
| olvi3*                      | 0.25  | 0.25  | 0.0   | (0.0) |
| olvi4*                      | 0.75  | 0.75  | 0.0   | (1.0) |
| olvi4*                      | 0.25  | 0.25  | 0.0   | (0.0) |
| olvi5*                      | 0.75  | 0.75  | 0.0   | (1.0) |
| olvi5*                      | 0.25  | 0.25  | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 72.53 | -5.41 | 69.89 |       |
| LAB*LAB                     | 72.53 | -5.41 | 69.89 |       |
| LAB*TCRa                    | 72.53 | -5.41 | 69.89 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.75  | 0.75  | 0.0   | (1.0) |
| olvi3*                      | 0.25  | 0.25  | 0.0   | (0.0) |
| olvi4*                      | 0.75  | 0.75  | 0.0   | (1.0) |
| olvi4*                      | 0.25  | 0.25  | 0.0   | (0.0) |
| olvi5*                      | 0.75  | 0.75  | 0.0   | (1.0) |
| olvi5*                      | 0.25  | 0.25  | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 70.99 | -7.25 | 93.17 |       |
| LAB*LAB                     | 70.99 | -7.25 | 93.17 |       |
| LAB*TCRa                    | 70.99 | -7.25 | 93.17 |       |

relative Inform. Technology (IT)

|                             |       |      |     |       |
|-----------------------------|-------|------|-----|-------|
| olvi3*                      | 0.5   | 0.5  | 0.5 | (1.0) |
| olvi3*                      | 0.5   | 0.5  | 0.5 | (0.0) |
| olvi4*                      | 0.5   | 0.5  | 0.5 | (1.0) |
| olvi4*                      | 0.5   | 0.5  | 0.5 | (0.0) |
| olvi5*                      | 0.5   | 0.5  | 0.5 | (1.0) |
| olvi5*                      | 0.5   | 0.5  | 0.5 | (0.0) |
| standard and adapted CIELAB |       |      |     |       |
| LAB*LAB                     | 56.71 | 0.05 | 0.0 |       |
| LAB*LAB                     | 56.71 | 0.05 | 0.0 |       |
| LAB*TCRa                    | 56.71 | 0.05 | 0.0 |       |

relative Inform. Technology (IT)

|                             |       |       |      |       |
|-----------------------------|-------|-------|------|-------|
| olvi3*                      | 0.5   | 0.5   | 0.25 | (1.0) |
| olvi3*                      | 0.5   | 0.5   | 0.25 | (0.0) |
| olvi4*                      | 0.5   | 0.5   | 0.25 | (1.0) |
| olvi4*                      | 0.5   | 0.5   | 0.25 | (0.0) |
| olvi5*                      | 0.5   | 0.5   | 0.25 | (1.0) |
| olvi5*                      | 0.5   | 0.5   | 0.25 | (0.0) |
| standard and adapted CIELAB |       |       |      |       |
| LAB*LAB                     | 55.53 | -1.75 | 23.3 |       |
| LAB*LAB                     | 55.53 | -1.75 | 23.3 |       |
| LAB*TCRa                    | 55.53 | -1.75 | 23.3 |       |

relative Inform. Technology (IT)

|                             |       |       |      |       |
|-----------------------------|-------|-------|------|-------|
| olvi3*                      | 0.5   | 0.5   | 0.0  | (1.0) |
| olvi3*                      | 0.5   | 0.5   | 0.0  | (0.0) |
| olvi4*                      | 0.5   | 0.5   | 0.0  | (1.0) |
| olvi4*                      | 0.5   | 0.5   | 0.0  | (0.0) |
| olvi5*                      | 0.5   | 0.5   | 0.0  | (1.0) |
| olvi5*                      | 0.5   | 0.5   | 0.0  | (0.0) |
| standard and adapted CIELAB |       |       |      |       |
| LAB*LAB                     | 54.35 | -3.63 | 46.6 |       |
| LAB*LAB                     | 54.35 | -3.63 | 46.6 |       |
| LAB*TCRa                    | 54.35 | -3.63 | 46.6 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.5   | 0.5   | 0.0   | (1.0) |
| olvi3*                      | 0.5   | 0.5   | 0.0   | (0.0) |
| olvi4*                      | 0.5   | 0.5   | 0.0   | (1.0) |
| olvi4*                      | 0.5   | 0.5   | 0.0   | (0.0) |
| olvi5*                      | 0.5   | 0.5   | 0.0   | (1.0) |
| olvi5*                      | 0.5   | 0.5   | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 53.17 | -5.43 | 69.89 |       |
| LAB*LAB                     | 53.17 | -5.43 | 69.89 |       |
| LAB*TCRa                    | 53.17 | -5.43 | 69.89 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.5   | 0.5   | 0.0   | (1.0) |
| olvi3*                      | 0.5   | 0.5   | 0.0   | (0.0) |
| olvi4*                      | 0.5   | 0.5   | 0.0   | (1.0) |
| olvi4*                      | 0.5   | 0.5   | 0.0   | (0.0) |
| olvi5*                      | 0.5   | 0.5   | 0.0   | (1.0) |
| olvi5*                      | 0.5   | 0.5   | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 52.01 | -7.25 | 93.17 |       |
| LAB*LAB                     | 52.01 | -7.25 | 93.17 |       |
| LAB*TCRa                    | 52.01 | -7.25 | 93.17 |       |

relative Inform. Technology (IT)

|                             |       |       |      |       |
|-----------------------------|-------|-------|------|-------|
| olvi3*                      | 0.25  | 0.25  | 0.25 | (1.0) |
| olvi3*                      | 0.75  | 0.75  | 0.75 | (0.0) |
| olvi4*                      | 0.25  | 0.25  | 0.25 | (1.0) |
| olvi4*                      | 0.75  | 0.75  | 0.75 | (0.0) |
| olvi5*                      | 0.25  | 0.25  | 0.25 | (1.0) |
| olvi5*                      | 0.75  | 0.75  | 0.75 | (0.0) |
| standard and adapted CIELAB |       |       |      |       |
| LAB*LAB                     | 37.36 | -3.57 | 46.6 |       |
| LAB*LAB                     | 37.36 | -3.57 | 46.6 |       |
| LAB*TCRa                    | 37.36 | -3.57 | 46.6 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi3*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| olvi4*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi4*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| olvi5*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi5*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 36.18 | -1.81 | 23.29 |       |
| LAB*LAB                     | 36.18 | -1.81 | 23.29 |       |
| LAB*TCRa                    | 36.18 | -1.81 | 23.29 |       |

relative Inform. Technology (IT)

|                             |       |       |      |       |
|-----------------------------|-------|-------|------|-------|
| olvi3*                      | 0.25  | 0.25  | 0.0  | (1.0) |
| olvi3*                      | 0.75  | 0.75  | 0.0  | (0.0) |
| olvi4*                      | 0.25  | 0.25  | 0.0  | (1.0) |
| olvi4*                      | 0.75  | 0.75  | 0.0  | (0.0) |
| olvi5*                      | 0.25  | 0.25  | 0.0  | (1.0) |
| olvi5*                      | 0.75  | 0.75  | 0.0  | (0.0) |
| standard and adapted CIELAB |       |       |      |       |
| LAB*LAB                     | 34.99 | -3.59 | 46.6 |       |
| LAB*LAB                     | 34.99 | -3.59 | 46.6 |       |
| LAB*TCRa                    | 34.99 | -3.59 | 46.6 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi3*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| olvi4*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi4*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| olvi5*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi5*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 33.81 | -5.43 | 69.89 |       |
| LAB*LAB                     | 33.81 | -5.43 | 69.89 |       |
| LAB*TCRa                    | 33.81 | -5.43 | 69.89 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi3*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| olvi4*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi4*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| olvi5*                      | 0.25  | 0.25  | 0.0   | (1.0) |
| olvi5*                      | 0.75  | 0.75  | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 32.63 | -7.25 | 93.17 |       |
| LAB*LAB                     | 32.63 | -7.25 | 93.17 |       |
| LAB*TCRa                    | 32.63 | -7.25 | 93.17 |       |

relative Inform. Technology (IT)

|                             |       |     |     |       |
|-----------------------------|-------|-----|-----|-------|
| olvi3*                      | 0.0   | 0.0 | 0.0 | (1.0) |
| olvi3*                      | 1.0   | 1.0 | 1.0 | (0.0) |
| olvi4*                      | 0.0   | 0.0 | 0.0 | (1.0) |
| olvi4*                      | 1.0   | 1.0 | 1.0 | (0.0) |
| olvi5*                      | 0.0   | 0.0 | 0.0 | (1.0) |
| olvi5*                      | 1.0   | 1.0 | 1.0 | (0.0) |
| standard and adapted CIELAB |       |     |     |       |
| LAB*LAB                     | 18.02 | 0.0 | 0.0 |       |
| LAB*LAB                     | 18.02 | 0.0 | 0.0 |       |
| LAB*TCRa                    | 18.02 | 0.0 | 0.0 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.0   | 0.0   | 0.0   | (1.0) |
| olvi3*                      | 1.0   | 1.0   | 0.0   | (0.0) |
| olvi4*                      | 0.0   | 0.0   | 0.0   | (1.0) |
| olvi4*                      | 1.0   | 1.0   | 0.0   | (0.0) |
| olvi5*                      | 0.0   | 0.0   | 0.0   | (1.0) |
| olvi5*                      | 1.0   | 1.0   | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 16.84 | -1.81 | 23.29 |       |
| LAB*LAB                     | 16.84 | -1.81 | 23.29 |       |
| LAB*TCRa                    | 16.84 | -1.81 | 23.29 |       |

relative Inform. Technology (IT)

|                             |       |       |      |       |
|-----------------------------|-------|-------|------|-------|
| olvi3*                      | 0.0   | 0.0   | 0.0  | (1.0) |
| olvi3*                      | 1.0   | 1.0   | 0.0  | (0.0) |
| olvi4*                      | 0.0   | 0.0   | 0.0  | (1.0) |
| olvi4*                      | 1.0   | 1.0   | 0.0  | (0.0) |
| olvi5*                      | 0.0   | 0.0   | 0.0  | (1.0) |
| olvi5*                      | 1.0   | 1.0   | 0.0  | (0.0) |
| standard and adapted CIELAB |       |       |      |       |
| LAB*LAB                     | 15.66 | -3.59 | 46.6 |       |
| LAB*LAB                     | 15.66 | -3.59 | 46.6 |       |
| LAB*TCRa                    | 15.66 | -3.59 | 46.6 |       |

relative Inform. Technology (IT)

|                             |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| olvi3*                      | 0.0   | 0.0   | 0.0   | (1.0) |
| olvi3*                      | 1.0   | 1.0   | 0.0   | (0.0) |
| olvi4*                      | 0.0   | 0.0   | 0.0   | (1.0) |
| olvi4*                      | 1.0   | 1.0   | 0.0   | (0.0) |
| olvi5*                      | 0.0   | 0.0   | 0.0   | (1.0) |
| olvi5*                      | 1.0   | 1.0   | 0.0   | (0.0) |
| standard and adapted CIELAB |       |       |       |       |
| LAB*LAB                     | 14.48 | -5.43 | 69.89 |       |
| LAB*LAB                     | 14.48 | -5.43 | 69.89 |       |
| LAB*TCRa                    | 14.48 | -5.43 | 69.89 |       |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| olvi3* | 1.0 | 1.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (1.0) |
| olvi   |     |     |     |       |

output: *no change compared to input*



### Input: Colorimetric Reflective System MRS18a

for hue  $h^* = lab^*h = 290/360 = 0.807$

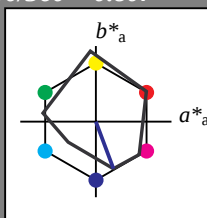
$lab^*tch$  and  $lab^*nch$

D65: hue B

LCH\*Ma: 37 66 290

rgb\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



### MRS18a; adapted (a) CIELAB data

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.8    | 40.02   | 77.87        | 31           |
| JMa    | 90.7          | -7.27   | 93.19   | 93.48        | 94           |
| GMa    | 52.11         | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa | 45.03         | -36.65  | -27.13  | 45.61        | 217          |
| BMa    | 36.65         | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa | 34.94         | 57.27   | -43.6   | 71.99        | 323          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.66   | 27.97   | 64.99        | 25           |
| JCIE   | 81.26         | -2.91   | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.47  | 13.58   | 44.6         | 162          |
| BCIE   | 30.57         | 1.33    | -46.48  | 46.51        | 272          |

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.01 0.0  
LAB\*LABa 95.41 0.01 0.0  
LAB\*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 1.0 (1.0)  
cmyn3\* 0.25 0.25 0.0 (0.0)  
olvi4\* 0.75 0.75 1.0 (1.0)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 80.72 5.84 -15.55  
LAB\*LABa 80.72 5.81 -15.55  
LAB\*TCHa 97.5 16.61 290.48

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 1.0 (1.0)  
cmyn3\* 0.5 0.5 0.0 (0.0)  
olvi4\* 0.5 0.5 1.0 (1.0)  
cmyn4\* 0.5 0.5 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 66.03 11.67 -31.12  
LAB\*LABa 66.03 11.63 -31.13  
LAB\*TCHa 75.0 33.24 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 1.0 (1.0)  
cmyn3\* 0.25 0.25 0.0 (0.0)  
olvi4\* 0.25 0.25 1.0 (1.0)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 51.34 17.5 -46.68  
LAB\*LABa 51.34 17.44 -46.7  
LAB\*TCHa 62.5 49.86 290.48

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 0.75  
cmyn4\* 0.0 0.0 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.0 0.0  
LAB\*TCHa 75.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.75 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 61.37 5.86 -15.55  
LAB\*LABa 61.37 5.81 -15.56  
LAB\*TCHa 62.5 16.62 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 46.68 11.63 -31.13  
LAB\*LABa 46.68 11.63 -31.13  
LAB\*TCHa 50.0 33.24 290.48

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.75 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.5 0.5 1.0 0.75  
cmyn4\* 0.5 0.5 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.0 0.0 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 36.65 23.25 -62.26  
LAB\*LABa 36.65 23.25 -62.26  
LAB\*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 39.28 7.87 -10.13  
LAB\*LABa 39.28 7.78 -11.1  
LAB\*TCHa 37.5 13.56 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.75 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.5 0.5 1.0 0.75  
cmyn4\* 0.5 0.5 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 41.21 15.61 -21.1  
LAB\*LABa 41.21 15.55 -22.21  
LAB\*TCHa 50.0 27.12 305.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 21.87 15.55 -22.2  
LAB\*LABa 21.87 15.55 -22.2  
LAB\*TCHa 37.51 40.67 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 25.72 31.46 -44.36  
LAB\*LABa 25.72 31.41 -44.41  
LAB\*TCHa 50.0 54.23 305.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.0 (0.0)  
cmyn3\* 0.0 0.0 0.0 0.5  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.05 0.0  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.02 5.81 -15.56  
LAB\*LABa 42.02 5.81 -15.56  
LAB\*TCHa 37.5 16.62 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.5 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.0 0.0 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 36.65 23.25 -62.26  
LAB\*LABa 36.65 23.25 -62.26  
LAB\*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 39.28 7.87 -10.13  
LAB\*LABa 39.28 7.78 -11.1  
LAB\*TCHa 37.5 13.56 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.75 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.5 0.5 1.0 0.75  
cmyn4\* 0.5 0.5 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 41.21 15.61 -21.1  
LAB\*LABa 41.21 15.55 -22.21  
LAB\*TCHa 50.0 27.12 305.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 21.87 15.55 -22.2  
LAB\*LABa 21.87 15.55 -22.2  
LAB\*TCHa 37.51 40.67 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 25.72 31.46 -44.36  
LAB\*LABa 25.72 31.41 -44.41  
LAB\*TCHa 50.0 54.23 305.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.0 (0.0)  
cmyn3\* 0.0 0.0 0.0 0.5  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.05 0.0  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.02 5.81 -15.56  
LAB\*LABa 42.02 5.81 -15.56  
LAB\*TCHa 37.5 16.62 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.5 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.0 0.0 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 36.65 23.25 -62.26  
LAB\*LABa 36.65 23.25 -62.26  
LAB\*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 39.28 7.87 -10.13  
LAB\*LABa 39.28 7.78 -11.1  
LAB\*TCHa 37.5 13.56 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.75 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.5 0.5 1.0 0.75  
cmyn4\* 0.5 0.5 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 41.21 15.61 -21.1  
LAB\*LABa 41.21 15.55 -22.21  
LAB\*TCHa 50.0 27.12 305.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 21.87 15.55 -22.2  
LAB\*LABa 21.87 15.55 -22.2  
LAB\*TCHa 37.51 40.67 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 25.72 31.46 -44.36  
LAB\*LABa 25.72 31.41 -44.41  
LAB\*TCHa 50.0 54.23 305.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.0 (0.0)  
cmyn3\* 0.0 0.0 0.0 0.5  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.05 0.0  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.02 5.81 -15.56  
LAB\*LABa 42.02 5.81 -15.56  
LAB\*TCHa 37.5 16.62 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.5 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.0 0.0 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 36.65 23.25 -62.26  
LAB\*LABa 36.65 23.25 -62.26  
LAB\*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 39.28 7.87 -10.13  
LAB\*LABa 39.28 7.78 -11.1  
LAB\*TCHa 37.5 13.56 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.75 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.5 0.5 1.0 0.75  
cmyn4\* 0.5 0.5 0.0 0.25  
standard and adapted CIELAB  
LAB\*LAB 41.21 15.61 -21.1  
LAB\*LABa 41.21 15.55 -22.21  
LAB\*TCHa 50.0 27.12 305.0

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 21.87 15.55 -22.2  
LAB\*LABa 21.87 15.55 -22.2  
LAB\*TCHa 37.51 40.67 305.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 25.72 31.46 -44.36  
LAB\*LABa 25.72 31.41 -44.41  
LAB\*TCHa 50.0 54.23 305.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.0 (0.0)  
cmyn3\* 0.0 0.0 0.0 0.5  
olvi4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 0.0  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.05 0.0  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 42.02 5.81 -15.56  
LAB\*LABa 42.02 5.81 -15.56  
LAB\*TCHa 37.5 16.62 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.5 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 (0.75)  
cmyn4\* 0.25 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.25 0.25 1.0 0.75  
cmyn4\* 0.25 0.25 0.0 0.75  
standard and adapted CIELAB  
LAB\*LAB 32.0 17.52 -46.67  
LAB\*LABa 32.0 17.44 -46.7  
LAB\*TCHa 37.51 49.86 290.48

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.0 0.0 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 36.65 23.25 -62.26  
LAB\*LABa 36.65 23.25 -62.26  
LAB\*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5  
standard and adapted CIELAB  
LAB\*LAB 56.71 0.23 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TCHa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.25 (0.0)  
olvi4\* 0.75 0.75 1.0 0.5  
cmyn4\* 0.25 0.25 0.0 0.





### Input: Colorimetric Reflective System MRS18a

for hue  $h^* = lab^*h = 92/360 = 0.256$

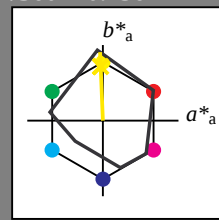
$lab^*tch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 89 91 92

rgb\*Ma: 1.0 0.95 0.0

triangle lightness  $t^*$



### MRS18a; adapted (a) CIELAB data

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.8    | 40.02   | 77.87        | 31           |
| JMa    | 90.7          | -7.27   | 93.19   | 93.48        | 94           |
| GMa    | 52.11         | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa | 45.03         | -36.65  | -27.13  | 45.61        | 217          |
| BMa    | 36.65         | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa | 34.94         | 57.27   | -43.6   | 71.99        | 323          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.67   | 27.97   | 64.99        | 25           |
| JCIE   | 81.26         | -2.91   | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.47  | 13.58   | 44.6         | 162          |
| BCIE   | 30.57         | 1.33    | -46.48  | 46.51        | 272          |

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

### Output: Colorimetric Reflective System ORS18

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

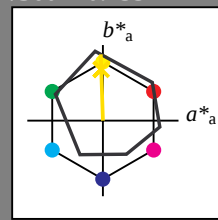
$lab^*tch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 86 88 92

rgb\*Ma: 1.0 0.9 0.0

triangle lightness  $t^*$



### ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.01 0.0  
LAB\*LABa 95.41 0.01 0.0  
LAB\*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 1.0 0.988 0.75 (1.0)  
cmyn3\* 0.0 0.012 0.25 (0.0)  
olvi4\* 1.0 0.988 0.75 (1.0)  
cmyn4\* 0.0 0.012 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 93.73 -0.91 22.65  
LAB\*LABa 93.73 -0.91 22.65  
LAB\*TCHa 97.5 22.67 92.33

relative Inform. Technology (IT)  
olvi3\* 1.0 0.978 0.5 (1.0)  
cmyn3\* 0.0 0.024 0.5 (0.0)  
olvi4\* 1.0 0.978 0.5 (1.0)  
cmyn4\* 0.0 0.024 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 92.06 -1.83 45.31  
LAB\*LABa 92.06 -1.83 45.31  
LAB\*TCHa 75.0 45.35 92.34

relative Inform. Technology (IT)  
olvi3\* 1.0 0.964 0.25 (1.0)  
cmyn3\* 0.0 0.036 0.25 (0.0)  
olvi4\* 1.0 0.964 0.25 (1.0)  
cmyn4\* 0.0 0.036 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 90.38 -2.75 67.96  
LAB\*LABa 90.38 -2.75 67.96  
LAB\*TCHa 62.5 68.02 92.34

relative Inform. Technology (IT)  
olvi3\* 1.0 0.952 0.0 (1.0)  
cmyn3\* 0.0 0.048 0.0 (0.0)  
olvi4\* 1.0 0.952 0.0 (1.0)  
cmyn4\* 0.0 0.048 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 88.71 -3.67 90.61  
LAB\*LABa 88.71 -3.67 90.61  
LAB\*TCHa 50.0 90.68 92.34

relative Inform. Technology (IT)  
olvi3\* 1.0 0.94 0.0 (1.0)  
cmyn3\* 0.0 0.05 0.0 (0.0)  
olvi4\* 1.0 0.94 0.0 (1.0)  
cmyn4\* 0.0 0.05 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 86.19 -4.58 91.85  
LAB\*LABa 86.19 -4.58 91.85  
LAB\*TCHa 50.0 91.85 92.34

relative Inform. Technology (IT)  
olvi3\* 1.0 0.928 0.0 (1.0)  
cmyn3\* 0.0 0.05 0.0 (0.0)  
olvi4\* 1.0 0.928 0.0 (1.0)  
cmyn4\* 0.0 0.05 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.69 -5.41 91.85  
LAB\*LABa 84.69 -5.41 91.85  
LAB\*TCHa 50.0 91.85 92.34

relative Inform. Technology (IT)  
olvi3\* 1.0 0.916 0.0 (1.0)  
cmyn3\* 0.0 0.05 0.0 (0.0)  
olvi4\* 1.0 0.916 0.0 (1.0)  
cmyn4\* 0.0 0.05 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 83.19 -6.24 91.85  
LAB\*LABa 83.19 -6.24 91.85  
LAB\*TCHa 50.0 91.85 92.34

relative Inform. Technology (IT)  
olvi3\* 1.0 0.904 0.0 (1.0)  
cmyn3\* 0.0 0.05 0.0 (0.0)  
olvi4\* 1.0 0.904 0.0 (1.0)  
cmyn4\* 0.0 0.05 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 81.69 -7.07 91.85  
LAB\*LABa 81.69 -7.07 91.85  
LAB\*TCHa 50.0 91.85 92.34

relative Inform. Technology (IT)  
olvi3\* 1.0 0.892 0.0 (1.0)  
cmyn3\* 0.0 0.05 0.0 (0.0)  
olvi4\* 1.0 0.892 0.0 (1.0)  
cmyn4\* 0.0 0.05 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 80.19 -7.90 91.85  
LAB\*LABa 80.19 -7.90 91.85  
LAB\*TCHa 50.0 91.85 92.34

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
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standard and adapted CIELAB  
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LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
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standard and adapted CIELAB  
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relative Inform. Technology (IT)  
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relative Inform. Technology (IT)  
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relative Inform. Technology (IT)  
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relative Inform. Technology (IT)  
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relative Inform. Technology (IT)  
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cmyn3\* 0.25 0.25 0.25 (0.0)  
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relative Inform. Technology (IT)  
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cmyn3\* 0.25 0.25 0.25 (0.0)  
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standard and adapted CIELAB  
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relative Inform. Technology (IT)  
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standard and adapted CIELAB  
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relative Inform. Technology (IT)  
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cmyn3\* 0.25 0.25 0.25 (0.0)  
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relative Inform. Technology (IT)  
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cmyn3\* 0.25 0.25 0.25 (0.0)  
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relative Inform. Technology (IT)  
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standard and adapted CIELAB  
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relative Inform. Technology (IT)  
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standard and adapted CIELAB  
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relative Inform. Technology (IT)  
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standard and adapted CIELAB  
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LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
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cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
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cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.75 0.726 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 0.03 0.0  
LAB\*LABa 76.06 0.03 0.0  
LAB\*TCHa 75.0 0.01 0.0

Page: count: 3

Version 2.1, io=0,0

output: *no change compared to input*

# Input: Colorimetric Reflective System MRS18a

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

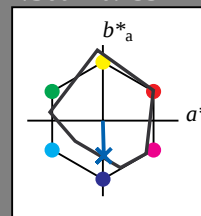
$lab \cdot tch$  and  $lab \cdot nch$

D65: hue B

LCH\*Ma: 40 49 272

rgb\*Ma: 0.0 0.36 1.0

triangle lightness  $t^*$



## MRS18a; adapted (a) CIELAB data

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.8    | 40.02   | 77.87        | 31           |
| JMa    | 90.7          | -7.27   | 93.19   | 93.48        | 94           |
| GMa    | 52.11         | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa | 45.03         | -36.65  | -27.13  | 45.61        | 217          |
| BMa    | 36.65         | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa | 34.94         | 57.27   | -43.6   | 71.99        | 323          |
| NMa    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.67   | 27.97   | 64.99        | 25           |
| JCIE   | 81.26         | -2.91   | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.47  | 13.58   | 44.6         | 162          |
| BCIE   | 30.57         | 1.33    | -46.48  | 46.51        | 272          |

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

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# Output: Colorimetric Reflective System ORS18

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

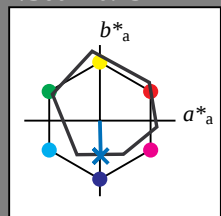
$lab \cdot tch$  and  $lab \cdot nch$

D65: hue B

LCH\*Ma: 42 45 271

rgb\*Ma: 0.0 0.49 1.0

triangle lightness  $t^*$



## ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

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UE560-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart UE56; Colorimetric systems MRS18a & ORS18 input:  $cmY0^* setcmykcolor$

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

output: no change compared to input