

Input: Colorimetric Offset Reflective System ORS18

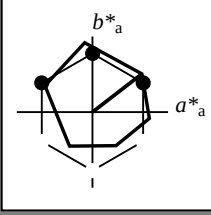
for hue  $h^* = lab^*h = 38/360 = 0.105$

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

D65: hue O

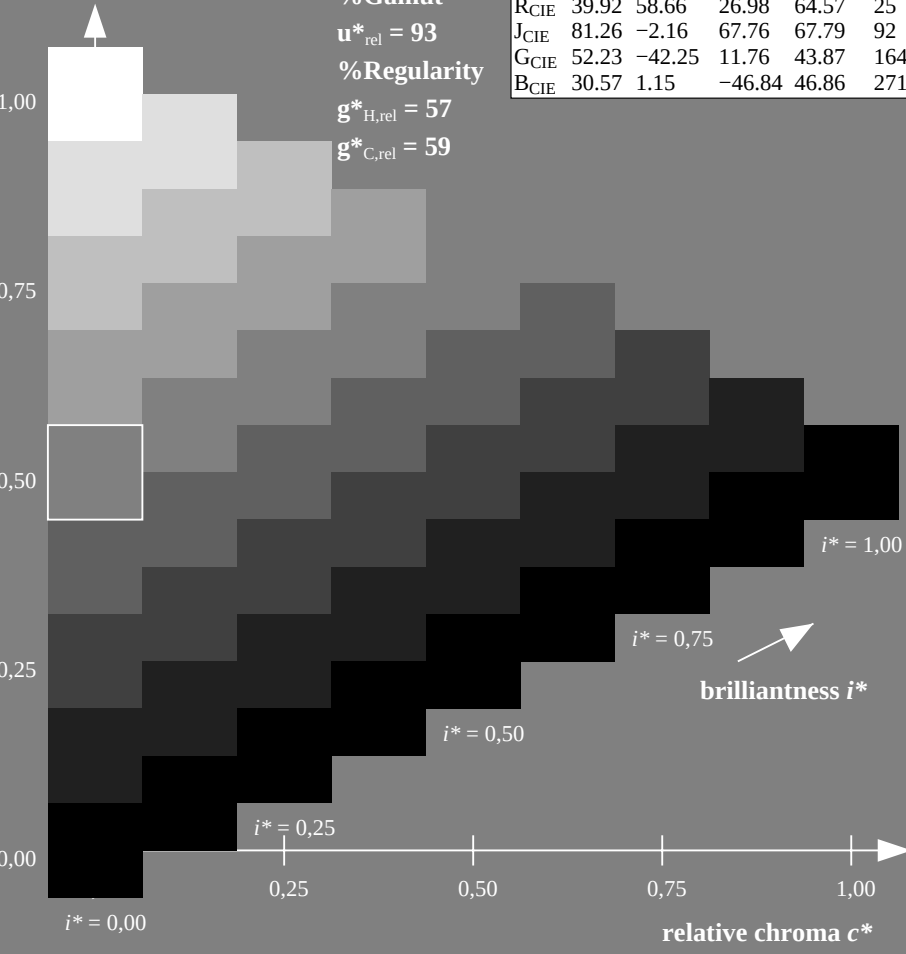
LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0



| 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          |

triangle lightness  $t^*$



ZE670-7N, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left)

Output: Colorimetric Offset Reflective System ORS18

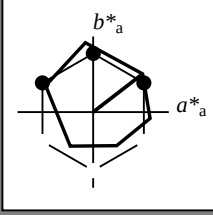
for hue  $h^* = lab^*h = 38/360 = 0.105$

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

D65: hue O

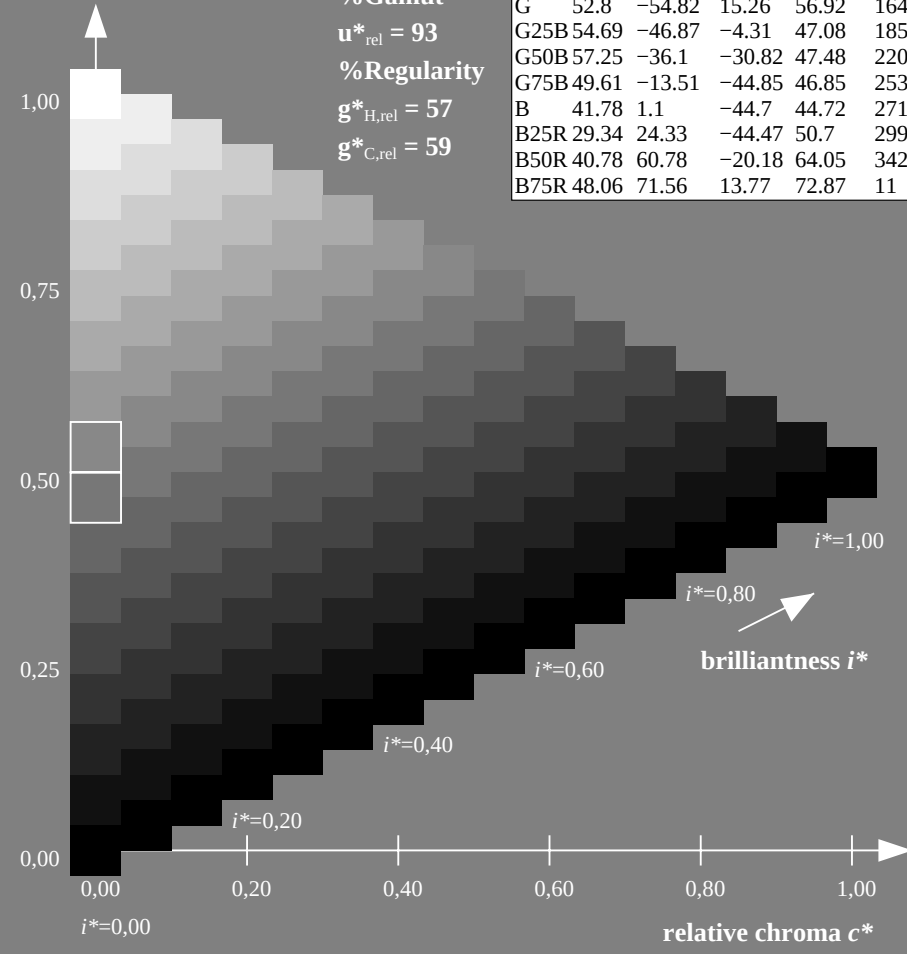
LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0



| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R                              | 48.0        | 68.58   | 31.54   | 75.48        | 25           |
| R25J                           | 50.11       | 61.52   | 52.63   | 80.96        | 41           |
| R50J                           | 62.87       | 38.77   | 65.02   | 75.71        | 59           |
| R75J                           | 74.87       | 17.37   | 76.69   | 78.63        | 77           |
| J                              | 86.19       | -2.8    | 87.69   | 87.73        | 92           |
| J25G                           | 84.01       | -18.73  | 82.6    | 84.7         | 103          |
| J50G                           | 71.17       | -35.83  | 64.13   | 73.46        | 119          |
| J75G                           | 56.99       | -54.71  | 43.72   | 70.05        | 141          |
| G                              | 52.8        | -54.82  | 15.26   | 56.92        | 164          |
| G25B                           | 54.69       | -46.87  | -4.31   | 47.08        | 185          |
| G50B                           | 57.25       | -36.1   | -30.82  | 47.48        | 220          |
| G75B                           | 49.61       | -13.51  | -44.85  | 46.85        | 253          |
| B                              | 41.78       | 1.1     | -44.7   | 44.72        | 271          |
| B25R                           | 29.34       | 24.33   | -44.47  | 50.7         | 299          |
| B50R                           | 40.78       | 60.78   | -20.18  | 64.05        | 342          |
| B75R                           | 48.06       | 71.56   | 13.77   | 72.87        | 11           |

triangle lightness  $t^*$



ZE670-7N, 16 step scales for constant CIELAB hue 38/360 = 0.105 (right)