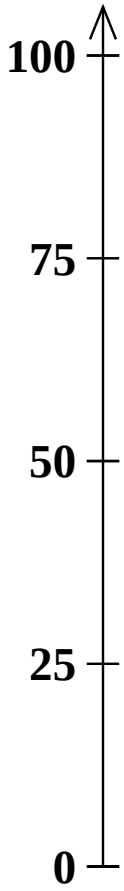
**Equal 9 step grey scaling between $L^*_{0aN}$=17.9 and $L^*_{0aW}$=95.9, $Y_{0ref}$=0.9, normalisation white *W***

$L^*_{0aN}$=17.9, $L^*_{0aU}$=56.9, $L^*_{0aW}$=96.0, $Y_{0aN}$=2.5, $Y_{0aU}$=24.9, $Y_{0aW}$=90.0, $C_{0aY}$=$Y_{0aW}$:$Y_{0aN}$=36.0

$L^*_{taN}$=21.5, $L^*_{taU}$=57.6, $L^*_{taW}$=96.0, $Y_{taN}$=3.4, $Y_{taU}$=25.5, $Y_{taW}$=90.0, $C_{taY}$=$Y_{taW}$:$Y_{taN}$=26.7

**Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps**

**$g^*$ = 100 [$\Delta L^*_{min}$] / [$\Delta L^*_{max}$], $L^*_{CIELAB}$ = 116 [$Y/Y_n$]$^{1/3}$ – 16 with $Y$ >= 0,882, $Y_n$=100**




| n0. i | intended output $g^*_5$= 99, $g^*_9$= 99 L*0a | L*0r | Y0a | Y0r | real output $g^*_5$= 90, $g^*_9$= 87 L*ta | ΔL*ta | L*tr | Yta | $(L^*tr)^{1/1.05}$ | linearized output $g^*_5$= 98, $g^*_9$= 98 L*la | ΔL*la |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 96.0 | 1.0 | 90.0 | 1.0 | 96.0 | | 1.0 | 90.0 | 1.0 | 96.0 | |
| | | | | | | 9.6 | | | | | 9.2 |
| 8 | 86.2 | 0.875 | 68.5 | 0.754 | 86.3 | | 0.87 | 68.7 | 0.876 | 86.7 | |
| | | | | | | 9.6 | | | | | 9.3 |
| 7 | 76.5 | 0.75 | 50.7 | 0.55 | 76.7 | | 0.741 | 51.0 | 0.751 | 77.4 | |
| | | | | | | 9.6 | | | | | 9.3 |
| 6 | 66.7 | 0.625 | 36.3 | 0.386 | 67.1 | | 0.613 | 36.8 | 0.626 | 68.1 | |
| | | | | | | 9.5 | | | | | 9.4 |
| 5 | 56.9 | 0.5 | 24.9 | 0.256 | 57.6 | | 0.485 | 25.5 | 0.5 | 58.8 | |
| | | | | | | 9.4 | | | | | 9.4 |
| 4 | 47.2 | 0.375 | 16.2 | 0.156 | 48.1 | | 0.358 | 16.9 | 0.375 | 49.4 | |
| | | | | | | 9.3 | | | | | 9.4 |
| 3 | 37.4 | 0.25 | 9.8 | 0.083 | 38.8 | | 0.233 | 10.6 | 0.249 | 40.0 | |
| | | | | | | 9.0 | | | | | 9.3 |
| 2 | 27.7 | 0.125 | 5.3 | 0.032 | 29.9 | | 0.113 | 6.2 | 0.124 | 30.7 | |
| | | | | | | 8.4 | | | | | 9.2 |
| 1 | 17.9 | 0.0 | 2.5 | 0.0 | 21.5 | | 0.0 | 3.4 | 0.0 | 21.5 | |

**$\Delta L^*_{0a}$=9.7 (i=1,2,...,8)**

**normalisation: $Y_{taiW}=Y_{0aW}\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$**