**Equal 9 step grey scaling between $L^*_{0aN}$=8.1 and $L^*_{0aW}$=95.9, $Y_{0ref}$=10.0, normalisation grey $U$**

$L^*_{0aN}$=8.1, $L^*_{0aU}$=52.1, $L^*_{0aW}$=96.0, $Y_{0aN}$=0.9, $Y_{0aU}$=20.2, $Y_{0aW}$=90.0, $C_{0aY}$=$Y_{0aW}$:$Y_{0aN}$=99.9

$L^*_{taN}$=32.5, $L^*_{taU}$=52.1, $L^*_{taW}$=85.4, $Y_{taN}$=7.3, $Y_{taU}$=20.2, $Y_{taW}$=66.9, $C_{taY}$=$Y_{taW}$:$Y_{taN}$=9.2

**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 $Y \geq 0.882$, $Y_n$=100

$g^*_5$= 99, $g^*_9$= 99          $g^*_5$= 39, $g^*_9$= 29          $g^*_5$= 94, $g^*_9$= 91

| $L^*_{CIELAB}$ n0. i | intended output | | | | real output | | | | | linearized output | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | $L^*_{0a}$ | $L^*_{0r}$ | $Y_{0a}$ | $Y_{0r}$ | $L^*_{ta}$ | $\Delta L^*_{ta}$ | $L^*_{tr}$ | $Y_{ta}$ | $(L^*_{tr})^{1/1.44}$ | $L^*_{la}$ | $\Delta L^*_{la}$ |
| 9 | 96.0 | 1.0 | 90.0 | 1.0 | 85.4 | | 1.0 | 66.9 | 1.0 | 85.4 | |
| | | | | | | 8.8 | | | | | 6.3 |
| 8 | 85.0 | 0.875 | 66.0 | 0.731 | 76.6 | | 0.833 | 50.8 | 0.88 | 79.1 | |
| | | | | | | 8.6 | | | | | 6.5 |
| 7 | 74.0 | 0.75 | 46.7 | 0.515 | 68.0 | | 0.67 | 38.0 | 0.757 | 72.6 | |
| | | | | | | 8.2 | | | | | 6.7 |
| 6 | 63.0 | 0.625 | 31.6 | 0.345 | 59.8 | | 0.515 | 27.8 | 0.63 | 65.8 | |
| | | | | | | 7.7 | | | | | 6.9 |
| 5 | 52.1 | 0.5 | 20.2 | 0.217 | 52.1 | | 0.37 | 20.2 | 0.5 | 59.0 | |
| | | | | | | 6.9 | | | | | 6.9 |
| 4 | 41.1 | 0.375 | 11.9 | 0.124 | 45.2 | | 0.24 | 14.6 | 0.37 | 52.1 | |
| | | | | | | 5.8 | | | | | 6.7 |
| 3 | 30.1 | 0.25 | 6.3 | 0.06 | 39.4 | | 0.131 | 10.9 | 0.242 | 45.3 | |
| | | | | | | 4.3 | | | | | 6.3 |
| 2 | 19.1 | 0.125 | 2.8 | 0.021 | 35.1 | | 0.05 | 8.5 | 0.123 | 39.0 | |
| | | | | | | 2.6 | | | | | 6.5 |
| 1 | 8.1 | 0.0 | 0.9 | 0.0 | 32.5 | | 0.0 | 7.3 | 0.0 | 32.5 | |

$\Delta L^*_{0a}$=11.0          (i=1,2,...,8)          normalisation: $Y_{taiU}$=$Y_{0aU}$ $\dfrac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$