**Equal 9 step grey scaling between $L^*_{0aN}$=30 & $L^*_{0aW}$=80.1, $Y_{0ref}$=1, normalisation white *W***

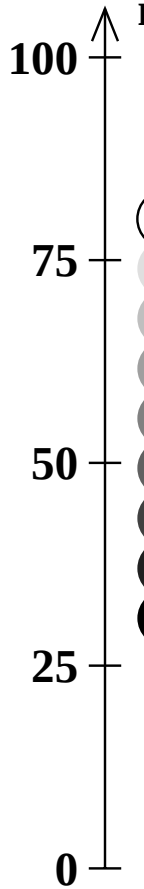
$L^*_{0aN}$=30.8, $L^*_{0aU}$=55.5, $L^*_{0aW}$=80.1, $Y_{0aN}$=6.7, $Y_{0aU}$=25.7, $Y_{0aW}$=60.0, $C_{0aY}$=$Y_{0aW}$:$Y_{0aN}$=9.0

$L^*_{taN}$=32.5, $L^*_{taU}$=56.0, $L^*_{taW}$=80.1, $Y_{taN}$=7.5, $Y_{taU}$=26.3, $Y_{taW}$=60.0, $C_{taY}$=$Y_{taW}$:$Y_{taN}$=7.9

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

**$g^*$ = 100 [$\Delta L^*_{min}$] / [$\Delta L^*_{max}$], $L^*_{TUBsRGB,W}$ = 100 $[Y/Y_n]^{1/ln(10)}$ with $Y$ >= 0,39 = 100/255, $Y_n$=100**

**$g^*_5$= 99, $g^*_9$= 99** | **$g^*_5$= 95, $g^*_9$= 94** | **$g^*_5$= 96, $g^*_9$= 94**




| | **intended output** | | | | **real output** | | | | | **linearized output** | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **n0. i** | **L*0a** | **L*0r** | **Y0a** | **Y0r** | **L*ta** | **ΔL*ta** | **L*tr** | **Yta** | **$(L^*tr)^{1/1.04}$** | **L*la** | **ΔL*la** |
| 9 | 80.1 | 1.0 | 60.0 | 1.0 | 80.1 | | 1.0 | 60.0 | 1.0 | 80.1 | |
| 8 | 73.9 | 0.875 | 49.9 | 0.811 | 74.0 | 6.0 | 0.873 | 50.1 | 0.877 | 74.3 | 5.8 |
| 7 | 67.8 | 0.75 | 40.8 | 0.641 | 68.0 | 6.0 | 0.746 | 41.2 | 0.754 | 68.4 | 5.9 |
| 6 | 61.6 | 0.625 | 32.8 | 0.49 | 62.0 | 6.0 | 0.619 | 33.3 | 0.63 | 62.5 | 5.9 |
| 5 | 55.5 | 0.5 | 25.7 | 0.358 | 56.0 | 6.0 | 0.493 | 26.3 | 0.506 | 56.6 | 5.9 |
| 4 | 49.3 | 0.375 | 19.6 | 0.243 | 50.0 | 5.9 | 0.368 | 20.3 | 0.381 | 50.7 | 5.9 |
| 3 | 43.2 | 0.25 | 14.4 | 0.146 | 44.1 | 5.8 | 0.243 | 15.2 | 0.256 | 44.7 | 5.9 |
| 2 | 37.0 | 0.125 | 10.1 | 0.065 | 38.3 | 5.7 | 0.12 | 10.9 | 0.13 | 38.7 | 6.0 |
| 1 | 30.8 | 0.0 | 6.7 | 0.0 | 32.5 | | 0.0 | 7.5 | 0.0 | 32.5 | 6.2 |

**$\Delta L^*_{0a}$=6.1 (i=1,2,...,8)**

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