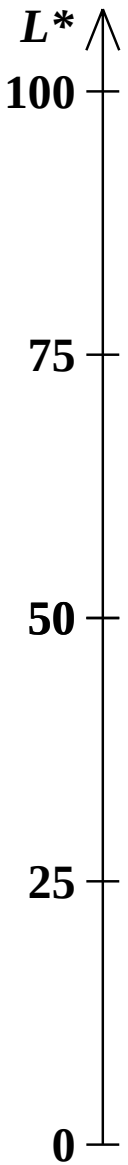
## Equal 9 step grey scaling between $L^*_N$ and $L^*_W$ for three reflections of ambient light

$L^*_{0N}$=4.0, $L^*_{0U}$=50.0, $L^*_{0W}$=96.0, $Y_{0N}$=0.4, $Y_{0U}$=18.4, $Y_{0W}$=90.0, $C_{0Y}=Y_{0W}:Y_{0N}$=203.2
$L^*_{tN}$=17.8, $L^*_{tU}$=51.8, $L^*_{tW}$=96.0, $Y_{tN}$=2.4, $Y_{tU}$=20.0, $Y_{tW}$=90.0, $C_{tY}=Y_{tW}:Y_{tN}$=36.2




| n0. | L*0a | L*0r | Y0a | Y0r | L*ta | ΔL*ta | L*tr | Yta | $(L^*tr)^{1/2,04}$ | $(L^*tr)^{1/2,04}-L^*0r$ |
|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 96.0 | 1.0 | 90.0 | 1.0 | 96.0 | | 1.0 | 90.0 | 1,000 | 0,000 |
| | | | | | | 11.2 | | | | |
| 8 | 84.5 | 0.875 | 65.0 | 0.721 | 84.7 | | 0.856 | 65.6 | 0,880 | −0,005 |
| | | | | | | 11.1 | | | | |
| 7 | 73.0 | 0.75 | 45.1 | 0.499 | 73.6 | | 0.714 | 46.1 | 0,758 | −0,008 |
| | | | | | | 10.9 | | | | |
| 6 | 61.5 | 0.625 | 29.8 | 0.328 | 62.6 | | 0.573 | 31.1 | 0,632 | −0,007 |
| | | | | | | 10.7 | | | | |
| 5 | 50.0 | 0.5 | 18.4 | 0.2 | 51.8 | | 0.435 | 20.0 | 0,504 | −0,004 |
| | | | | | | 10.3 | | | | |
| 4 | 38.5 | 0.375 | 10.3 | 0.11 | 41.5 | | 0.302 | 12.1 | 0,372 | 0,002 |
| | | | | | | 9.6 | | | | |
| 3 | 27.0 | 0.25 | 5.0 | 0.051 | 31.8 | | 0.179 | 7.0 | 0,242 | 0,007 |
| | | | | | | 8.1 | | | | |
| 2 | 15.5 | 0.125 | 2.0 | 0.017 | 23.7 | | 0.074 | 4.0 | 0,117 | 0,008 |
| | | | | | | 5.8 | | | | |
| 1 | 4.0 | 0.0 | 0.4 | 0.0 | 17.8 | | 0.0 | 2.4 | 0,001 | −0,000 |

**$\Delta L^*_{ta}$=11.9 (i=1,2,...,9)** **normalisation:** $Y_{ta}=Y_{0W}\frac{Y_{0i}+Y_{0N}}{Y_{0W}+Y_{0N}}$ Σ=0,0027

DEN31−7N