

Equal 9 step grey scaling between $L^*_{0aN}=14.4$ and $L^*_{0aW}=95.9$, $Y_{0ref}=0.4$, normalisation grey U

$L^*_{0aN}=14.4$, $L^*_{0aU}=55.2$, $L^*_{0aW}=96.0$, $Y_{0aN}=1.8$, $Y_{0aU}=23.1$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=50.0$

$L^*_{taN}=16.3$, $L^*_{taU}=55.2$, $L^*_{taW}=95.5$, $Y_{taN}=2.2$, $Y_{taU}=23.1$, $Y_{taW}=88.9$, $C_{taY}=Y_{taW}:Y_{taN}=41.1$

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

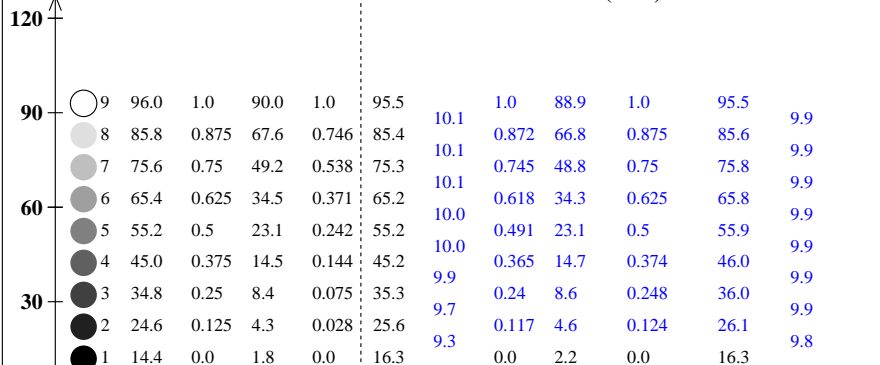
$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$ with $Y \geq 0.882$, $Y_n=100$

$g^*_5 = 99$, $g^*_9 = 99$

$g^*_5 = 93$, $g^*_9 = 91$

$g^*_5 = 98$, $g^*_9 = 98$

L^*_{CIELAB} n0. i **intended output** **real output** **linearized output**
 L^*_{0a} L^*_{0r} Y_{0a} Y_{0r} L^*_{ta} ΔL^*_{ta} L^*_{tr} Y_{ta} $(L^*_{tr})^{1/1.03}$ L^*_{la} ΔL^*_{la}



$\Delta L^*_{0a}=10.2$ (i=1,2,...,8)

normalisation: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$