

Equal 9 step grey scaling between $L^*_{0aN}=21$ & $L^*_{0aW}=107.2$, $Y_{0ref}=1$, normalisation white W

$L^*_{0aN}=21.3$, $L^*_{0aU}=64.3$, $L^*_{0aW}=107.3$, $Y_{0aN}=3.3$, $Y_{0aU}=33.2$, $Y_{0aW}=120.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$
 $L^*_{taN}=24.6$, $L^*_{taU}=64.9$, $L^*_{taW}=107.3$, $Y_{taN}=4.3$, $Y_{taU}=33.9$, $Y_{taW}=120.0$, $C_{taY}=Y_{taW}:Y_{taN}=27.9$

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

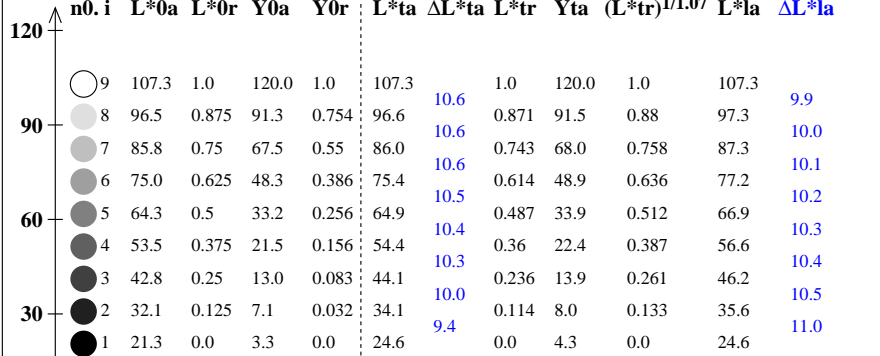
$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{CIELAB,W} = 116 [Y/Y_n]^{1/3} - 16$ with $Y \geq 0.882$, $Y_n=100$

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

$g^*_5 = 91$, $g^*_9 = 88$

$g^*_5 = 92$, $g^*_9 = 90$

$L^*_{CIELAB,W}$ intended output real output linearized output
 n0. i L^*_{0a} L^*_{0r} Y_{0a} Y_{0r} L^*_{ta} ΔL^*_{ta} L^*_{tr} Y_{ta} $(L^*_{tr})^{1/1.07}$ L^*_{la} ΔL^*_{la}



$\Delta L^*_{0a}=10.7$ (i=1,2,...,8)

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