

Equal 9 step grey scaling between $L^*_{0aN}=14.4$ and $L^*_{0aW}=125.1$, $Y_{0ref}=180.0$, normalisation white

$L^*_{0aN}=14.4$, $L^*_{0aU}=69.7$, $L^*_{0aW}=125.1$, $Y_{0aN}=1.8$, $Y_{0aU}=40.4$, $Y_{0aW}=180.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$
 $L^*_{taN}=96.4$, $L^*_{taU}=103.8$, $L^*_{taW}=125.1$, $Y_{taN}=90.9$, $Y_{taU}=110.2$, $Y_{taW}=180.0$, $C_{taY}=Y_{taW}:Y_{taN}=2.0$

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

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

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

$g^*_5=17$, $g^*_9=11$

$g^*_5=91$, $g^*_9=73$

$L^*_{CIE LAB}$ intended output real output linearized output
 n0. i L^*_{0a} L^*_{0r} Y_{0a} Y_{0r} L^*_{ta} ΔL^*_{ta} L^*_{tr} Y_{ta} $(L^*_{tr})^{1/1.89}$ L^*_{la} ΔL^*_{la}

