

Equal 9 step grey scaling between $L^*_{0aN}=14.4$ and $L^*_{0aW}=95.9$, $Y_{0ref}=20.0$, normalisation white W

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

$L^*_{taN}=49.3$, $L^*_{taU}=66.0$, $L^*_{taW}=96.0$, $Y_{taN}=17.8$, $Y_{taU}=35.3$, $Y_{taW}=90.0$, $C_{taY}=Y_{taW}:Y_{taN}=5.0$

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

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

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

$g^*_5 = 37$, $g^*_9 = 29$

$g^*_5 = 97$, $g^*_9 = 87$

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} $(L^*_{tr})^{1/1.47}$ L^*_{la} ΔL^*_{la}

