

9stufige Grauskalierung zwischen $L^*_{0aN}=23$ & $L^*_{0aW}=104.2$, $Y_{0ref}=1$, Normierung Weiß W

$L^*_{0aN}=23.7$, $L^*_{0aU}=64.0$, $L^*_{0aW}=104.2$, $Y_{0aN}=3.6$, $Y_{0aU}=35.7$, $Y_{0aW}=110.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=30.2$

$L^*_{taN}=26.2$, $L^*_{taU}=64.5$, $L^*_{taW}=104.2$, $Y_{taN}=4.6$, $Y_{taU}=36.4$, $Y_{taW}=110.0$, $C_{taY}=Y_{taW}:Y_{taN}=23.9$

Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBsRGB,W} = 100 [Y/Y_n]^{1/\ln(10)}$ mit $Y \geq 0,39 = 100/255$, $Y_n=100$
 $g^*_5=99$, $g^*_9=99$ $g^*_5=93$, $g^*_9=91$ $g^*_5=91$, $g^*_9=89$

$L^*_{TUBsRGB,W}$ angestrebte Ausgabe reale Ausgabe linearisierte Ausgabe

| 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} |
|-------|------------|------------|----------|----------|------------|-------------------|------------|----------|-----------------------|------------|-------------------|
| 9 | 104.2 | 1.0 | 110.0 | 1.0 | 104.2 | | 1.0 | 110.0 | 1.0 | 104.2 | |
| 8 | 94.2 | 0.875 | 87.1 | 0.784 | 94.2 | 10.0 | 0.872 | 87.3 | 0.88 | 94.8 | 9.4 |
| 7 | 84.1 | 0.75 | 67.1 | 0.597 | 84.3 | 9.9 | 0.744 | 67.5 | 0.759 | 85.4 | 9.5 |
| 6 | 74.0 | 0.625 | 50.0 | 0.436 | 74.4 | 9.9 | 0.617 | 50.6 | 0.637 | 75.9 | 9.6 |
| 5 | 64.0 | 0.5 | 35.7 | 0.302 | 64.5 | 9.8 | 0.49 | 36.4 | 0.513 | 66.3 | 9.7 |
| 4 | 53.9 | 0.375 | 24.1 | 0.192 | 54.6 | 9.7 | 0.364 | 24.9 | 0.389 | 56.5 | 9.8 |
| 3 | 43.8 | 0.25 | 15.0 | 0.107 | 44.9 | 9.5 | 0.239 | 15.8 | 0.262 | 46.7 | 10.0 |
| 2 | 33.8 | 0.125 | 8.2 | 0.043 | 35.4 | 9.1 | 0.117 | 9.1 | 0.134 | 36.7 | 10.5 |
| 1 | 23.7 | 0.0 | 3.6 | 0.0 | 26.2 | | 0.0 | 4.6 | 0.0 | 26.2 | |

$\Delta L^*_{0a}=10.1$ (i=1,2,...,8)

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