

9stufige Grauskalierung zwischen $L^*_{0aN}=22.3$ und $L^*_{0aW}=95.9$, $Y_{0ref}=3.6$, Normierung Grau U

$L^*_{0aN}=22.3$, $L^*_{0aU}=59.1$, $L^*_{0aW}=96.0$, $Y_{0aN}=3.6$, $Y_{0aU}=27.2$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=25.0$

$L^*_{taN}=30.3$, $L^*_{taU}=59.1$, $L^*_{taW}=92.9$, $Y_{taN}=6.3$, $Y_{taU}=27.2$, $Y_{taW}=82.6$, $C_{taY}=Y_{taW}:Y_{taN}=13.0$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$ mit $Y \geq 0,882$, $Y_n=100$

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

$g^*_5=77$, $g^*_9=71$

$g^*_5=98$, $g^*_9=97$

L^*_{CIELAB}	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.12}$	L^*_{la}	ΔL^*_{la}
100	○ 9	96.0	1.0	90.0	1.0	92.9		1.0	82.6	1.0	92.9	
	● 8	86.8	0.875	69.6	0.763	84.3	8.6	0.863	64.6	0.876	85.1	7.7
	● 7	77.6	0.75	52.5	0.566	75.8	8.5	0.727	49.5	0.751	77.3	7.8
75	● 6	68.4	0.625	38.5	0.403	67.4	8.4	0.593	37.1	0.626	69.5	7.8
	● 5	59.1	0.5	27.2	0.273	59.1	8.2	0.461	27.2	0.5	61.6	7.9
	● 4	49.9	0.375	18.4	0.171	51.1	8.0	0.333	19.4	0.374	53.7	7.9
50	● 3	40.7	0.25	11.7	0.094	43.5	7.6	0.211	13.5	0.248	45.8	7.8
	● 2	31.5	0.125	6.9	0.038	36.5	7.0	0.098	9.2	0.125	38.1	7.7
25	● 1	22.3	0.0	3.6	0.0	30.3	6.1	0.0	6.3	0.0	30.3	7.8
0												

$\Delta L^*_{0a}=9.2$

(i=1,2,...,8)

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