

9stufige Grauskalierung zwischen $L^*_{0aN}=17.9$ und $L^*_{0aW}=95.9$, $Y_{0ref}=0.9$, Normierung Weiß W

$L^*_{0aN}=17.9$, $L^*_{0aU}=56.9$, $L^*_{0aW}=96.0$, $Y_{0aN}=2.5$, $Y_{0aU}=24.9$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$

$L^*_{taN}=21.5$, $L^*_{taU}=57.6$, $L^*_{taW}=96.0$, $Y_{taN}=3.4$, $Y_{taU}=25.5$, $Y_{taW}=90.0$, $C_{taY}=Y_{taW}:Y_{taN}=26.7$

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 $Y \geq 0,882$, $Y_n=100$

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

$g^*_5=90$, $g^*_9=87$

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

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}	$(L^*_{tr})^{1/1.05}$	L^*_{la}	ΔL^*_{la}
100	○ 9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
	● 8	86.2	0.875	68.5	0.754	86.3	9.6	0.87	68.7	0.876	86.7	9.2
	● 7	76.5	0.75	50.7	0.55	76.7	9.6	0.741	51.0	0.751	77.4	9.3
75	● 6	66.7	0.625	36.3	0.386	67.1	9.6	0.613	36.8	0.626	68.1	9.3
	● 5	56.9	0.5	24.9	0.256	57.6	9.5	0.485	25.5	0.5	58.8	9.4
	● 4	47.2	0.375	16.2	0.156	48.1	9.4	0.358	16.9	0.375	49.4	9.4
50	● 3	37.4	0.25	9.8	0.083	38.8	9.3	0.233	10.6	0.249	40.0	9.4
	● 2	27.7	0.125	5.3	0.032	29.9	9.0	0.113	6.2	0.124	30.7	9.3
25	● 1	17.9	0.0	2.5	0.0	21.5	8.4	0.0	3.4	0.0	21.5	9.2
0												

$\Delta L^*_{0a}=9.7$

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

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