

9stufige Grauskalierung zwischen $L^*_{0aN}=8.1$ und $L^*_{0aW}=95.9$, $Y_{0ref}=1.8$, Normierung Weiß W

$L^*_{0aN}=8.1$, $L^*_{0aU}=52.1$, $L^*_{0aW}=96.0$, $Y_{0aN}=0.9$, $Y_{0aU}=20.2$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$

$L^*_{taN}=18.6$, $L^*_{taU}=53.6$, $L^*_{taW}=96.0$, $Y_{taN}=2.6$, $Y_{taU}=21.6$, $Y_{taW}=90.0$, $C_{taY}=Y_{taW}:Y_{taN}=34.0$

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

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

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

$g^*_5=71$, $g^*_9=61$

$g^*_5=94$, $g^*_9=91$

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.15}$	L^*_{la}	ΔL^*_{la}
100	○ 9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.7					9.4
	● 8	85.0	0.875	66.0	0.731	85.2		0.861	66.5	0.878	86.6	
							10.7					9.5
75	● 7	74.0	0.75	46.7	0.515	74.6		0.723	47.6	0.755	77.0	
							10.6					9.7
	● 6	63.0	0.625	31.6	0.345	64.0		0.587	32.8	0.629	67.3	
							10.4					9.9
50	● 5	52.1	0.5	20.2	0.217	53.6		0.452	21.6	0.502	57.4	
							10.1					10.0
	● 4	41.1	0.375	11.9	0.124	43.4		0.321	13.4	0.373	47.5	
							9.6					10.0
25	● 3	30.1	0.25	6.3	0.06	33.8		0.197	7.9	0.244	37.5	
							8.6					9.7
	● 2	19.1	0.125	2.8	0.021	25.2		0.086	4.5	0.119	27.8	
							6.6					9.2
0	● 1	8.1	0.0	0.9	0.0	18.6		0.0	2.6	0.0	18.6	

$\Delta L^*_{0a}=11.0$ (i=1,2,...,8)

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