

9stufige Grauskalierung zwischen $L^*_{0aN}=8.1$ und $L^*_{0aW}=95.9$, $Y_{0ref}=0.4$, Normierung Grau U

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

$L^*_{taN}=11.1$, $L^*_{taU}=52.1$, $L^*_{taW}=95.4$, $Y_{taN}=1.3$, $Y_{taU}=20.2$, $Y_{taW}=88.6$, $C_{taY}=Y_{taW}:Y_{taN}=69.5$

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

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

$g^*_5=90$, $g^*_9=86$

$g^*_5=97$, $g^*_9=96$

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.04}$	L^*_{la}	ΔL^*_{la}
100	○ 9	96.0	1.0	90.0	1.0	95.4		1.0	88.6	1.0	95.4	
							10.9					10.4
	● 8	85.0	0.875	66.0	0.731	84.5		0.871	65.1	0.876	85.0	
							10.8					10.5
75	● 7	74.0	0.75	46.7	0.515	73.7		0.742	46.2	0.752	74.5	
							10.8					10.5
	● 6	63.0	0.625	31.6	0.345	62.9		0.614	31.4	0.627	63.9	
							10.8					10.6
50	● 5	52.1	0.5	20.2	0.217	52.1		0.486	20.2	0.501	53.3	
							10.7					10.6
	● 4	41.1	0.375	11.9	0.124	41.3		0.358	12.1	0.374	42.7	
							10.6					10.7
25	● 3	30.1	0.25	6.3	0.06	30.7		0.233	6.5	0.248	32.0	
							10.3					10.6
	● 2	19.1	0.125	2.8	0.021	20.5		0.111	3.1	0.122	21.4	
							9.4					10.3
0	● 1	8.1	0.0	0.9	0.0	11.1		0.0	1.3	0.0	11.1	

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

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