

9stufige Grauskalierung zwischen $L^*_{0aN}=3.6$ und $L^*_{0aW}=95.9$, $Y_{0ref}=2.5$, Normierung Weiß W

$L^*_{0aN}=3.6$, $L^*_{0aU}=49.8$, $L^*_{0aW}=96.0$, $Y_{0aN}=0.4$, $Y_{0aU}=18.2$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=225.0$

$L^*_{taN}=19.3$, $L^*_{taU}=52.1$, $L^*_{taW}=96.0$, $Y_{taN}=2.8$, $Y_{taU}=20.2$, $Y_{taW}=90.0$, $C_{taY}=Y_{taW}:Y_{taN}=31.9$

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

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

$g^*_5 = 58$, $g^*_9 = 48$

$g^*_5 = 91$, $g^*_9 = 89$

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.24}$	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	84.4	0.875	64.9	0.72	84.8	11.2	0.854	65.6	0.88	86.8	9.2
75	● 7	72.9	0.75	45.0	0.498	73.7	11.1	0.709	46.2	0.758	77.4	9.4
	● 6	61.3	0.625	29.6	0.326	62.7	10.9	0.566	31.3	0.632	67.8	9.6
	● 5	49.8	0.5	18.2	0.199	62.7	10.7	0.427	20.2	0.504	67.8	9.9
50	● 4	38.2	0.375	10.2	0.11	52.1	10.2	0.293	12.4	0.372	57.9	10.1
	● 3	26.7	0.25	5.0	0.051	41.8	9.4	0.171	7.3	0.241	47.9	10.0
25	● 2	15.2	0.125	1.9	0.017	32.4	7.7	0.07	4.3	0.117	37.8	9.5
	● 1	3.6	0.0	0.4	0.0	24.7	5.4	0.0	2.8	0.0	28.3	9.0
0	● 1	3.6	0.0	0.4	0.0	19.3		0.0	2.8	0.0	19.3	

$\Delta L^*_{0a} = 11.5$ (i=1,2,...,8)

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