

9stufige Grauskalierung zwischen $L^*_{0aN}=17.9$ und $L^*_{0aW}=95.9$, $Y_{0ref}=10.0$, Normierung Weiß W

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

$L^*_{taN}=40.0$, $L^*_{taU}=62.8$, $L^*_{taW}=96.0$, $Y_{taN}=11.2$, $Y_{taU}=31.4$, $Y_{taW}=90.0$, $C_{taY}=Y_{taW}:Y_{taN}=8.0$

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

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

$g^*_5=53$, $g^*_9=45$

$g^*_5=97$, $g^*_9=93$

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}	$(L^*_{tr})^{1/1.29}$	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	87.3	8.7	0.845	70.6	0.877	89.1	6.9
75	● 7	76.5	0.75	50.7	0.55	78.8	8.5	0.693	54.6	0.752	82.1	7.0
	● 6	66.7	0.625	36.3	0.386	70.6	8.2	0.547	41.6	0.626	75.0	7.1
	● 5	56.9	0.5	24.9	0.256	62.8	7.8	0.408	31.4	0.499	67.9	7.1
50	● 4	47.2	0.375	16.2	0.156	55.6	7.2	0.279	23.5	0.372	60.8	7.1
	● 3	37.4	0.25	9.8	0.083	49.2	6.4	0.165	17.8	0.247	53.8	7.0
25	● 2	27.7	0.125	5.3	0.032	43.9	5.3	0.071	13.8	0.128	47.2	6.7
	● 1	17.9	0.0	2.5	0.0	40.0	3.9	0.0	11.2	0.0	40.0	7.1
0												

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

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

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