

9stufige Grauskalierung zwischen $L^*_{0aN}=22.3$ und $L^*_{0aW}=95.9$, $Y_{0ref}=1.8$, Normierung Grau U

$L^*_{0aN}=22.3$, $L^*_{0aU}=59.1$, $L^*_{0aW}=96.0$, $Y_{0aN}=3.6$, $Y_{0aU}=27.2$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=25.0$

$L^*_{taN}=26.9$, $L^*_{taU}=59.1$, $L^*_{taW}=94.3$, $Y_{taN}=5.1$, $Y_{taU}=27.2$, $Y_{taW}=86.1$, $C_{taY}=Y_{taW}:Y_{taN}=17.0$

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

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

$g^*_5=86$, $g^*_9=82$

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

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}	$(L^*_{tr})^{1/1.06}$	L^*_{la}	ΔL^*_{la}
100	○ 9	96.0	1.0	90.0	1.0	94.3		1.0	86.1	1.0	94.3	
	● 8	86.8	0.875	69.6	0.763	85.5	8.9	0.868	66.9	0.876	86.0	8.4
	● 7	77.6	0.75	52.5	0.566	76.6	8.8	0.737	50.9	0.751	77.6	8.4
75	● 6	68.4	0.625	38.5	0.403	67.8	8.8	0.607	37.8	0.625	69.1	8.4
	● 5	59.1	0.5	27.2	0.273	59.1	8.7	0.478	27.2	0.5	60.6	8.5
	● 4	49.9	0.375	18.4	0.171	50.6	8.6	0.351	18.9	0.374	52.1	8.5
50	● 3	40.7	0.25	11.7	0.094	42.2	8.3	0.227	12.6	0.249	43.7	8.4
	● 2	31.5	0.125	6.9	0.038	34.3	8.0	0.109	8.1	0.124	35.3	8.4
25	● 1	22.3	0.0	3.6	0.0	26.9	7.3	0.0	5.1	0.0	26.9	8.4
0												

$\Delta L^*_{0a}=9.2$

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

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