

9stufige Grauskalierung zwischen $L^*_{0aN}=3.6$ und $L^*_{0aW}=95.9$, $Y_{0ref}=90.0$, Normierung Grau U

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

$L^*_{taN}=46.0$, $L^*_{taU}=49.8$, $L^*_{taW}=62.0$, $Y_{taN}=15.2$, $Y_{taU}=18.2$, $Y_{taW}=30.3$, $C_{taY}=Y_{taW}:Y_{taN}=2.0$

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

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

$g^*_5 = 14$, $g^*_9 = 9$

$g^*_5 = 92$, $g^*_9 = 71$

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/2.0}$	L^*_{la}	ΔL^*_{la}
100	○ 9	96.0	1.0	90.0	1.0	62.0		1.0	30.3	1.0	62.0	
	● 8	84.4	0.875	64.9	0.72	58.2	3.8	0.762	26.1	0.873	59.9	2.0
75	● 7	72.9	0.75	45.0	0.498	54.8	3.3	0.554	22.8	0.745	57.9	2.0
	● 6	61.3	0.625	29.6	0.326	52.0	2.8	0.379	20.2	0.616	55.8	2.0
50	● 5	49.8	0.5	18.2	0.199	49.8	2.2	0.24	18.2	0.49	53.8	2.0
	● 4	38.2	0.375	10.2	0.11	48.1	1.7	0.136	16.9	0.369	51.9	1.9
25	● 3	26.7	0.25	5.0	0.051	47.0	1.1	0.064	16.0	0.254	50.0	1.8
	● 2	15.2	0.125	1.9	0.017	46.3	0.7	0.022	15.5	0.148	48.3	1.7
0	● 1	3.6	0.0	0.4	0.0	46.0	0.3	0.0	15.2	0.0	46.0	2.4

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

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