

9stufige Grauskalierung zwischen $L^*_{0aN}=8.1$ und $L^*_{0aW}=95.9$, $Y_{0ref}=90.0$, Normierung Weiß W

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

$L^*_{taN}=73.2$, $L^*_{taU}=79.1$, $L^*_{taW}=96.0$, $Y_{taN}=45.4$, $Y_{taU}=55.1$, $Y_{taW}=90.0$, $C_{taY}=Y_{taW}:Y_{taN}=2.0$

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

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

$g^*_5=17$, $g^*_9=11$

$g^*_5=91$, $g^*_9=73$

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.89}$	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	85.0	0.875	66.0	0.731	90.8	5.2	0.772	78.0	0.872	93.1	2.9
75	● 7	74.0	0.75	46.7	0.515	86.2	4.6	0.57	68.4	0.743	90.1	2.9
	● 6	63.0	0.625	31.6	0.345	82.3	3.9	0.399	60.8	0.615	87.2	2.9
	● 5	52.1	0.5	20.2	0.217	79.1	3.2	0.259	55.1	0.49	84.4	2.8
50	● 4	41.1	0.375	11.9	0.124	76.6	2.4	0.152	50.9	0.369	81.6	2.7
	● 3	30.1	0.25	6.3	0.06	74.9	1.7	0.076	48.1	0.255	79.0	2.6
25	● 2	19.1	0.125	2.8	0.021	73.8	1.1	0.027	46.4	0.147	76.5	2.5
	● 1	8.1	0.0	0.9	0.0	73.2	0.6	0.0	45.4	0.0	73.2	3.4

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

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