

9stufige Grauskalierung zwischen $L^*_{0aN}=14.4$ und $L^*_{0aW}=125.1$, $Y_{0ref}=180.0$, Normierung Weiß W

$L^*_{0aN}=14.4$, $L^*_{0aU}=69.7$, $L^*_{0aW}=125.1$, $Y_{0aN}=1.8$, $Y_{0aU}=40.4$, $Y_{0aW}=180.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$
 $L^*_{taN}=96.4$, $L^*_{taU}=103.8$, $L^*_{taW}=125.1$, $Y_{taN}=90.9$, $Y_{taU}=110.2$, $Y_{taW}=180.0$, $C_{taY}=Y_{taW}:Y_{taN}=2.0$

Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$ 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^*_{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}	$(L^*_{tr})^{1/1.89}$	L^*_{la}	ΔL^*_{la}
○ 9	125.1	1.0	180.0	1.0	125.1		1.0	180.0	1.0	125.1	
● 8	111.3	0.875	132.1	0.731	118.5	6.6	0.772	156.0	0.872	121.4	3.7
● 7	97.4	0.75	93.5	0.514	112.7	5.8	0.57	136.7	0.743	117.7	3.7
● 6	83.6	0.625	63.3	0.345	107.8	4.9	0.399	121.6	0.615	114.0	3.7
● 5	69.7	0.5	40.4	0.217	103.8	4.0	0.259	110.2	0.49	110.4	3.6
● 4	55.9	0.375	23.8	0.124	100.7	3.1	0.152	101.9	0.369	107.0	3.5
● 3	42.1	0.25	12.5	0.06	98.5	2.2	0.076	96.3	0.255	103.7	3.3
● 2	28.2	0.125	5.5	0.021	97.1	1.4	0.027	92.8	0.147	100.6	3.1
● 1	14.4	0.0	1.8	0.0	96.4	0.8		90.9	0.0	96.4	4.2

$\Delta L^*_{0a}=13.8$ (i=1,2,...,8)

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