

9stufige Grauskalierung zwischen $L^*_{0aN}=3.6$ und $L^*_{0aW}=95.9$, $Y_{0ref}=1.8$, Normierung Grau U

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

$L^*_{taN}=15.5$, $L^*_{taU}=49.8$, $L^*_{taW}=93.3$, $Y_{taN}=2.0$, $Y_{taU}=18.2$, $Y_{taW}=83.6$, $C_{taY}=Y_{taW}:Y_{taN}=41.7$

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

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

$g^*_5 = 65$, $g^*_9 = 55$

$g^*_5 = 92$, $g^*_9 = 90$

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}	$(L^*_{tr})^{1/1.19}$	L^*_{la}	ΔL^*_{la}
100	9	96.0	1.0	90.0	1.0	93.3		1.0	83.6	1.0	93.3	
	8	84.4	0.875	64.9	0.72	82.2	11.0	0.858	60.7	0.879	83.9	9.4
75	7	72.9	0.75	45.0	0.498	71.3	10.9	0.717	42.6	0.757	74.3	9.5
	6	61.3	0.625	29.6	0.326	60.4	10.8	0.578	28.6	0.631	64.6	9.7
50	5	49.8	0.5	18.2	0.199	49.8	10.6	0.441	18.2	0.503	54.6	10.0
	4	38.2	0.375	10.2	0.11	39.5	10.3	0.309	10.9	0.373	44.5	10.1
	3	26.7	0.25	5.0	0.051	29.9	9.6	0.185	6.2	0.242	34.3	10.1
25	2	15.2	0.125	1.9	0.017	21.6	8.3	0.078	3.4	0.118	24.7	9.7
	1	3.6	0.0	0.4	0.0	15.5	6.1		2.0	0.0	15.5	9.2

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

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