

# 9stufige Grauskalierung zwischen $L^*_{0aN}=14.4$ und $L^*_{0aW}=95.9$ , $Y_{0ref}=20.0$ , Normierung Grau U

$L^*_{0aN}=14.4$ ,  $L^*_{0aU}=55.2$ ,  $L^*_{0aW}=96.0$ ,  $Y_{0aN}=1.8$ ,  $Y_{0aU}=23.1$ ,  $Y_{0aW}=90.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=50.0$

$L^*_{taN}=40.7$ ,  $L^*_{taU}=55.2$ ,  $L^*_{taW}=81.3$ ,  $Y_{taN}=11.7$ ,  $Y_{taU}=23.1$ ,  $Y_{taW}=59.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=5.0$

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

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

$g^*_5 = 37$ ,  $g^*_9 = 29$

$g^*_5 = 97$ ,  $g^*_9 = 87$

$L^*_{CIELAB}$  angestrebte Ausgabe reale Ausgabe linearisierte Ausgabe

n0. i	$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.47}$	$L^*_{la}$	$\Delta L^*_{la}$
9	96.0	1.0	90.0	1.0	81.3		1.0	59.0	1.0	81.3	
8	85.8	0.875	67.6	0.746	74.2	7.1	0.824	47.0	0.877	76.3	5.0
7	75.6	0.75	49.2	0.538	67.4	6.8	0.657	37.1	0.752	71.2	5.1
6	65.4	0.625	34.5	0.371	61.0	6.4	0.5	29.2	0.624	66.0	5.2
5	55.2	0.5	23.1	0.242	55.2	5.8	0.357	23.1	0.497	60.9	5.2
4	45.0	0.375	14.5	0.144	50.1	5.1	0.232	18.5	0.37	55.7	5.1
3	34.8	0.25	8.4	0.075	45.9	4.2	0.129	15.2	0.248	50.8	4.9
2	24.6	0.125	4.3	0.028	42.8	3.1	0.051	13.0	0.133	46.1	4.7
1	14.4	0.0	1.8	0.0	40.7	2.1	0.0	11.7	0.0	40.7	5.4

$\Delta L^*_{0a}=10.2$  (i=1,2,...,8)

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