

# 9stufige Grauskalierung zwischen $L^*_{0aN}=14.4$ und $L^*_{0aW}=95.9$ , $Y_{0ref}=3.6$ , Normierung Grau U

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

$L^*_{taN}=25.8$ ,  $L^*_{taU}=55.2$ ,  $L^*_{taW}=92.1$ ,  $Y_{taN}=4.7$ ,  $Y_{taU}=23.1$ ,  $Y_{taW}=81.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=17.3$

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

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

$g^*_5 = 67$ ,  $g^*_9 = 59$

$g^*_5 = 96$ ,  $g^*_9 = 95$

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

n0. i	$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.18}$	$L^*_{la}$	$\Delta L^*_{la}$
9	96.0	1.0	90.0	1.0	92.1		1.0	81.0	1.0	92.1	
8	85.8	0.875	67.6	0.746	82.7	9.4	0.858	61.6	0.878	84.0	8.1
7	75.6	0.75	49.2	0.538	73.4	9.3	0.717	45.7	0.754	75.8	8.2
6	65.4	0.625	34.5	0.371	64.2	9.2	0.579	33.0	0.628	67.4	8.3
5	55.2	0.5	23.1	0.242	55.2	9.0	0.443	23.1	0.501	59.0	8.4
4	45.0	0.375	14.5	0.144	46.6	8.6	0.313	15.7	0.373	50.5	8.5
3	34.8	0.25	8.4	0.075	38.5	8.0	0.192	10.4	0.246	42.1	8.4
2	24.6	0.125	4.3	0.028	31.4	7.1	0.085	6.8	0.123	33.9	8.2
1	14.4	0.0	1.8	0.0	25.8	5.6	0.0	4.7	0.0	25.8	8.1

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

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