

# 9stufige Grauskalierung zwischen $L^*_{0aN}=14.4$ und $L^*_{0aW}=95.9$ , $Y_{0ref}=2.5$ , Normierung Grau U

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

$L^*_{taN}=23.3$ ,  $L^*_{taU}=55.2$ ,  $L^*_{taW}=93.2$ ,  $Y_{taN}=3.9$ ,  $Y_{taU}=23.1$ ,  $Y_{taW}=83.5$ ,  $C_{taY}=Y_{taW}:Y_{taN}=21.5$

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

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

$g^*_5 = 74$ ,  $g^*_9 = 66$

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

$L^*_{CIE LAB}$  angestrebte Ausgabe reale Ausgabe linearisierte Ausgabe

n0. i	$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.13}$	$L^*_{la}$	$\Delta L^*_{la}$
9	96.0	1.0	90.0	1.0	93.2		1.0	83.5	1.0	93.2	
8	85.8	0.875	67.6	0.746	83.6	9.6	0.862	63.2	0.877	84.6	8.6
7	75.6	0.75	49.2	0.538	74.0	9.6	0.725	46.7	0.753	76.0	8.7
6	65.4	0.625	34.5	0.371	64.5	9.5	0.589	33.4	0.628	67.2	8.8
5	55.2	0.5	23.1	0.242	55.2	9.3	0.456	23.1	0.501	58.3	8.9
4	45.0	0.375	14.5	0.144	46.1	9.0	0.327	15.4	0.373	49.4	8.9
3	34.8	0.25	8.4	0.075	37.5	8.6	0.204	9.8	0.246	40.5	8.9
2	24.6	0.125	4.3	0.028	29.7	7.8	0.092	6.1	0.122	31.8	8.7
1	14.4	0.0	1.8	0.0	23.3	6.4	0.0	3.9	0.0	23.3	8.6

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

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