

# 9stufige Grauskalierung zwischen $L^*_{0aN}=17.9$ und $L^*_{0aW}=95.9$ , $Y_{0ref}=2.5$ , Normierung Weiß W

$L^*_{0aN}=17.9$ ,  $L^*_{0aU}=56.9$ ,  $L^*_{0aW}=96.0$ ,  $Y_{0aN}=2.5$ ,  $Y_{0aU}=24.9$ ,  $Y_{0aW}=90.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$

$L^*_{taN}=26.3$ ,  $L^*_{taU}=58.6$ ,  $L^*_{taW}=96.0$ ,  $Y_{taN}=4.9$ ,  $Y_{taU}=26.6$ ,  $Y_{taW}=90.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=18.5$

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

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

$g^*_5=78$ ,  $g^*_9=72$

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

$L^*_{CIELAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.11}$	$L^*_{la}$	$\Delta L^*_{la}$
100	○ 9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
	● 8	86.2	0.875	68.5	0.754	86.5	9.5	0.864	69.0	0.877	87.4	8.6
75	● 7	76.5	0.75	50.7	0.55	77.1	9.4	0.729	51.7	0.752	78.7	8.7
	● 6	66.7	0.625	36.3	0.386	67.8	9.3	0.595	37.7	0.627	70.0	8.7
	● 5	56.9	0.5	24.9	0.256	58.6	9.2	0.464	26.6	0.5	61.2	8.8
50	● 4	47.2	0.375	16.2	0.156	49.7	8.9	0.335	18.2	0.374	52.4	8.8
	● 3	37.4	0.25	9.8	0.083	41.1	8.6	0.212	11.9	0.247	43.6	8.8
25	● 2	27.7	0.125	5.3	0.032	33.2	7.9	0.098	7.6	0.124	35.0	8.6
	● 1	17.9	0.0	2.5	0.0	26.3	6.8	0.0	4.9	0.0	26.3	8.6
0												

$\Delta L^*_{0a}=9.7$

(i=1,2,...,8)

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