

**9stufige Grauskalierung zwischen  $L^*_{0aN}=22.3$  und  $L^*_{0aW}=95.9$ ,  $Y_{0ref}=10.0$ , Normierung Grau U**

$L^*_{0aN}=22.3$ ,  $L^*_{0aU}=59.1$ ,  $L^*_{0aW}=96.0$ ,  $Y_{0aN}=3.6$ ,  $Y_{0aU}=27.2$ ,  $Y_{0aW}=90.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=25.0$

$L^*_{taN}=37.7$ ,  $L^*_{taU}=59.1$ ,  $L^*_{taW}=88.5$ ,  $Y_{taN}=9.9$ ,  $Y_{taU}=27.2$ ,  $Y_{taW}=73.1$ ,  $C_{taY}=Y_{taW}:Y_{taN}=7.3$

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

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

$g^*_5=59$ ,  $g^*_9=52$

$g^*_5=98$ ,  $g^*_9=93$

$L^*_{CIELAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.24}$	$L^*_{la}$	$\Delta L^*_{la}$
100	○ 9	96.0	1.0	90.0	1.0	88.5		1.0	73.1	1.0	88.5	
	● 8	86.8	0.875	69.6	0.763	80.8	7.7	0.849	58.2	0.876	82.2	6.3
	● 7	77.6	0.75	52.5	0.566	73.3	7.5	0.701	45.7	0.751	75.9	6.3
75	● 6	68.4	0.625	38.5	0.403	66.1	7.2	0.558	35.4	0.625	69.5	6.4
	● 5	59.1	0.5	27.2	0.273	59.1	6.9	0.422	27.2	0.498	63.0	6.4
	● 4	49.9	0.375	18.4	0.171	52.7	6.5	0.294	20.7	0.372	56.6	6.4
50	● 3	40.7	0.25	11.7	0.094	46.8	5.9	0.178	15.9	0.249	50.4	6.3
	● 2	31.5	0.125	6.9	0.038	41.7	5.0	0.079	12.3	0.129	44.3	6.1
25	● 1	22.3	0.0	3.6	0.0	37.7	4.0	0.0	9.9	0.0	37.7	6.5
0												

$\Delta L^*_{0a}=9.2$

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

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