

# 9stufige Grauskalierung zwischen $L^*_{0aN}=22.3$ und $L^*_{0aW}=95.9$ , $Y_{0ref}=2.5$ , Normierung Grau U

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

$L^*_{taN}=28.3$ ,  $L^*_{taU}=59.1$ ,  $L^*_{taW}=93.7$ ,  $Y_{taN}=5.6$ ,  $Y_{taU}=27.2$ ,  $Y_{taW}=84.7$ ,  $C_{taY}=Y_{taW}:Y_{taN}=15.2$

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

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

$g^*_5=82$ ,  $g^*_9=77$

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

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.09}$	$L^*_{la}$	$\Delta L^*_{la}$
100	○ 9	96.0	1.0	90.0	1.0	93.7		1.0	84.7	1.0	93.7	
	● 8	86.8	0.875	69.6	0.763	85.0	8.8	0.866	66.0	0.876	85.6	8.1
	● 7	77.6	0.75	52.5	0.566	76.3	8.7	0.733	50.4	0.751	77.5	8.1
75	● 6	68.4	0.625	38.5	0.403	67.7	8.6	0.601	37.5	0.626	69.3	8.2
	● 5	59.1	0.5	27.2	0.273	59.1	8.5	0.471	27.2	0.5	61.0	8.2
50	● 4	49.9	0.375	18.4	0.171	50.8	8.3	0.343	19.1	0.374	52.8	8.2
	● 3	40.7	0.25	11.7	0.094	42.8	8.0	0.22	13.0	0.248	44.6	8.2
	● 2	31.5	0.125	6.9	0.038	35.2	7.6	0.104	8.6	0.125	36.5	8.1
25	● 1	22.3	0.0	3.6	0.0	28.3	6.8	0.0	5.6	0.0	28.3	8.2
0												

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

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

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