

# 9stufige Grauskalierung zwischen $L^*_{0aN}=22.3$ und $L^*_{0aW}=95.9$ , $Y_{0ref}=90.0$ , Normierung Grau U

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

$L^*_{taN}=53.7$ ,  $L^*_{taU}=59.1$ ,  $L^*_{taW}=70.7$ ,  $Y_{taN}=21.7$ ,  $Y_{taU}=27.2$ ,  $Y_{taW}=41.8$ ,  $C_{taY}=Y_{taW}:Y_{taN}=1.9$

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

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

$g^*_5=30$ ,  $g^*_9=23$

$g^*_5=88$ ,  $g^*_9=74$

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.6}$	$L^*_{la}$	$\Delta L^*_{la}$
100	○ 9	96.0	1.0	90.0	1.0	70.7		1.0	41.8	1.0	70.7	
	● 8	86.8	0.875	69.6	0.763	67.3	3.4	0.799	37.0	0.869	68.5	2.2
	● 7	77.6	0.75	52.5	0.566	64.2	3.1	0.617	33.1	0.74	66.3	2.2
75	● 6	68.4	0.625	38.5	0.403	61.5	2.7	0.457	29.8	0.613	64.1	2.1
	● 5	59.1	0.5	27.2	0.273	59.1	2.3	0.319	27.2	0.491	62.1	2.1
	● 4	49.9	0.375	18.4	0.171	57.2	1.9	0.205	25.1	0.372	60.0	2.0
50	● 3	40.7	0.25	11.7	0.094	55.7	1.5	0.115	23.6	0.259	58.1	1.9
	● 2	31.5	0.125	6.9	0.038	54.5	1.1	0.047	22.5	0.149	56.3	1.9
25	● 1	22.3	0.0	3.6	0.0	53.7	0.8	0.0	21.7	0.0	53.7	2.5
		identisch	$rgb^*_{0r}$					$rgb^*_{tr}$		$(rgb^*_{tr})^{1/1.6}$		
0		$\Delta L^*_{0a}=9.2$		$(i=1,2,\dots,8)$		Normierung: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$						