

# 9stufige Grauskalierung zwischen $L^*_{0aN}=8.1$ und $L^*_{0aW}=95.9$ , $Y_{0ref}=90.0$ , Normierung Grau U

$L^*_{0aN}=8.1$ ,  $L^*_{0aU}=52.1$ ,  $L^*_{0aW}=96.0$ ,  $Y_{0aN}=0.9$ ,  $Y_{0aU}=20.2$ ,  $Y_{0aW}=90.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$

$L^*_{taN}=47.8$ ,  $L^*_{taU}=52.1$ ,  $L^*_{taW}=64.2$ ,  $Y_{taN}=16.7$ ,  $Y_{taU}=20.2$ ,  $Y_{taW}=33.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=2.0$

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

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

$g^*_5=17$ ,  $g^*_9=11$

$g^*_5=91$ ,  $g^*_9=73$

$L^*_{CIE LAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe					linearisierte Ausgabe	
		$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.89}$	$L^*_{la}$	$\Delta L^*_{la}$
100	9	96.0	1.0	90.0	1.0	64.2		1.0	33.0	1.0	64.2	
	8	85.0	0.875	66.0	0.731	60.4	3.7	0.772	28.6	0.872	62.1	2.1
75	7	74.0	0.75	46.7	0.515	57.1	3.3	0.57	25.1	0.743	60.0	2.1
	6	63.0	0.625	31.6	0.345	54.3	2.8	0.399	22.3	0.615	57.9	2.1
	5	52.1	0.5	20.2	0.217	52.1	2.3	0.259	20.2	0.49	55.8	2.0
50	4	41.1	0.375	11.9	0.124	50.3	1.7	0.152	18.7	0.369	53.9	2.0
	3	30.1	0.25	6.3	0.06	49.1	1.2	0.076	17.6	0.255	52.0	1.9
25	2	19.1	0.125	2.8	0.021	48.3	0.8	0.027	17.0	0.147	50.2	1.8
	1	8.1	0.0	0.9	0.0	47.8	0.4	0.0	16.7	0.0	47.8	2.4

$\Delta L^*_{0a}=11.0$  (i=1,2,...,8)

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