

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

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

$L^*_{taN}=74.1$ ,  $L^*_{taU}=81.1$ ,  $L^*_{taW}=96.0$ ,  $Y_{taN}=46.8$ ,  $Y_{taU}=58.6$ ,  $Y_{taW}=90.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=1.9$

**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	96.0		1.0	90.0	1.0	96.0	
	● 8	86.8	0.875	69.6	0.763	91.6	4.4	0.799	79.8	0.869	93.1	2.9
	● 7	77.6	0.75	52.5	0.566	87.6	4.0	0.617	71.2	0.74	90.3	2.8
75	● 6	68.4	0.625	38.5	0.403	84.1	3.5	0.457	64.2	0.613	87.5	2.8
	● 5	59.1	0.5	27.2	0.273	81.1	3.0	0.319	58.6	0.491	84.8	2.7
	● 4	49.9	0.375	18.4	0.171	78.6	2.5	0.205	54.2	0.372	82.2	2.6
50	● 3	40.7	0.25	11.7	0.094	76.6	2.0	0.115	50.8	0.259	79.7	2.5
	● 2	31.5	0.125	6.9	0.038	75.1	1.5	0.047	48.4	0.149	77.3	2.4
25	● 1	22.3	0.0	3.6	0.0	74.1	1.0	0.0	46.8	0.0	74.1	3.3

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

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

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