

# 9stufige Grauskalierung zwischen $L^*_{0aN}=20.0$ und $L^*_{0aW}=103.0$ , $Y_{0ref}=108.0$ , Normierung Weiß W

$L^*_{0aN}=20.0$ ,  $L^*_{0aU}=61.5$ ,  $L^*_{0aW}=103.0$ ,  $Y_{0aN}=3.0$ ,  $Y_{0aU}=29.8$ ,  $Y_{0aW}=108.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$   
 $L^*_{taN}=79.3$ ,  $L^*_{taU}=86.5$ ,  $L^*_{taW}=103.0$ ,  $Y_{taN}=55.5$ ,  $Y_{taU}=68.9$ ,  $Y_{taW}=108.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=1.9$

## Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$  mit  $Y \geq 0,882$ ,  $Y_n=100$

$g^*_5 = 100$ ,  $g^*_9 = 99$

$g^*_5 = 25$ ,  $g^*_9 = 19$

$g^*_5 = 89$ ,  $g^*_9 = 73$

$L^*_{CIELAB}$	n0. i	angestrebte Ausgabe				reale Ausgabe				linearisierte Ausgabe		
		$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{ta}$	$\Delta L^*_{ta}$	$L^*_{tr}$	$Y_{ta}$	$(L^*_{tr})^{1/1.68}$	$L^*_{la}$	$\Delta L^*_{la}$
100	9	103.0	1.0	108.0	1.0	103.0		1.0	108.0	1.0	103.0	
	8	92.6	0.875	82.1	0.754	98.1	4.9	0.791	95.1	0.87	99.9	3.1
	7	82.3	0.75	60.8	0.55	93.6	4.4	0.603	84.4	0.741	96.9	3.1
75	6	71.9	0.625	43.5	0.386	89.7	3.9	0.44	75.7	0.613	93.9	3.0
	5	61.5	0.5	29.8	0.256	86.5	3.3	0.301	68.9	0.49	90.9	2.9
	4	51.2	0.375	19.4	0.156	83.8	2.6	0.189	63.7	0.371	88.1	2.8
50	3	40.8	0.25	11.7	0.083	81.8	2.0	0.103	59.9	0.258	85.4	2.7
	2	30.4	0.125	6.4	0.032	80.3	1.5	0.041	57.2	0.149	82.9	2.6
25	1	20.0	0.0	3.0	0.0	79.3	1.0	0.0	55.5	0.0	79.3	3.5
0		$\Delta L^*_{0a}=10.4$ (i=1,2,...,8)				Normierung: $Y_{taiW}=Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$						