

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

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

$g^*_5 = 99$ ,  $g^*_9 = 99$   $g^*_5 = 82$ ,  $g^*_9 = 77$   $g^*_5 = 98$ ,  $g^*_9 = 98$

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

$\Delta L^*_{0a}=9.2$  (i=1,2,...,8)

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

egq10-3n

9stufige Grauskalierung zwischen  $L^*_{0aN}=22.3$  und  $L^*_{0aW}=95.9$ ,  $Y_{0ref}=20.0$ , Normierung Grau U

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

$L^*_{taN}=43.6$ ,  $L^*_{taU}=59.1$ ,  $L^*_{taW}=83.6$ ,  $Y_{taN}=13.6$ ,  $Y_{taU}=27.2$ ,  $Y_{taW}=63.4$ ,  $C_{taY}=Y_{taW}:Y_{taN}=4.7$

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  $Y >= 0,882$ ,  $Y_n=100$

$g^*_5 = 99$ ,  $g^*_9 = 99$   $g^*_5 = 47$ ,  $g^*_9 = 40$   $g^*_5 = 96$ ,  $g^*_9 = 87$

L* <sub>CIELAB</sub> n0.i	angestrebte Ausgabe				reale Ausgabe				linearisierte Ausgabe			
	L* <sub>0a</sub>	L* <sub>0r</sub>	Y <sub>0a</sub>	Y <sub>0r</sub>	L* <sub>ta</sub>	$\Delta L^*_{ta}$	L* <sub>tr</sub>	Y <sub>ta</sub>	(L* <sub>tr</sub> ) <sup>1/1.35</sup>	L* <sub>la</sub>	$\Delta L^*_{la}$	
9	96.0	1.0	90.0	1.0	83.6	6.6	1.0	63.4	1.0	83.6	5.0	
8	86.8	0.875	69.6	0.763	77.0	6.3	0.835	51.6	0.875	78.6	5.0	
7	77.6	0.75	52.5	0.566	70.7	6.0	0.677	41.8	0.749	73.6	5.1	
6	68.4	0.625	38.5	0.403	64.7	5.6	0.527	33.7	0.622	68.5	5.0	
5	59.1	0.5	27.2	0.273	59.1	5.0	0.387	27.2	0.496	63.5	5.0	
4	49.9	0.375	18.4	0.171	54.1	4.3	0.262	22.1	0.372	58.5	4.8	
3	40.7	0.25	11.7	0.094	49.8	3.5	0.154	18.3	0.251	53.7	4.7	
2	31.5	0.125	6.9	0.038	46.3	2.6	0.066	15.5	0.134	49.0	5.3	
1	22.3	0.0	3.6	0.0	43.6		0.0	13.6	0.0	43.6		

$\Delta L^*_{0a}=9.2$  (i=1,2,...,8)

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

egq11-3n

9stufige Grauskalierung zwischen  $L^*_{0aN}=22.3$  und  $L^*_{0aW}=95.9$ ,  $Y_{0ref}=10.0$ , Normierung Grau U

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

$L^*_{taN}=37.7$ ,  $L^*_{taU}=59.1$ ,  $L^*_{taW}=88.5$ ,  $Y_{taN}=9.9$ ,  $Y_{taU}=27.2$ ,  $Y_{taW}=73.1$ ,  $C_{taY}=Y_{taW}:Y_{taN}=7.3$

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  $Y >= 0,882$ ,  $Y_n=100$

$g^*_5 = 99$ ,  $g^*_9 = 99$   $g^*_5 = 59$ ,  $g^*_9 = 52$   $g^*_5 = 98$ ,  $g^*_9 = 93$

L* <sub>CIELAB</sub> n0.i	angestrebte Ausgabe				reale Ausgabe				linearisierte Ausgabe			
	L* <sub>0a</sub>	L* <sub>0r</sub>	Y <sub>0a</sub>	Y <sub>0r</sub>	L* <sub>ta</sub>	$\Delta L^*_{ta}$	L* <sub>tr</sub>	Y <sub>ta</sub>	(L* <sub>tr</sub> ) <sup>1/1.24</sup>	L* <sub>la</sub>	$\Delta L^*_{la}$	
9	96.0	1.0	90.0	1.0	88.5	7.7	1.0	73.1	1.0	88.5	6.3	
8	86.8	0.875	69.6	0.763	80.8	7.5	0.849	58.2	0.876	82.2	6.3	
7	77.6	0.75	52.5	0.566	73.3	7.2	0.701	45.7	0.751	75.9	6.4	
6	68.4	0.625	38.5	0.403	66.1	6.9	0.558	35.4	0.625	69.5	6.4	
5	59.1	0.5	27.2	0.273	59.1	6.5	0.422	27.2	0.498	63.0	6.4	
4	49.9	0.375	18.4	0.171	52.7	5.9	0.294	20.7	0.372	56.6	6.4	
3	40.7	0.25	11.7	0.094	46.8	5.0	0.178	15.9	0.249	50.4	6.3	
2	31.5	0.125	6.9	0.038	41.7	4.0	0.079	12.3	0.129	44.3	6.1	
1	22.3	0.0	3.6	0.0	37.7		0.0	9.9	0.0	37.7	6.5	

$\Delta L^*_{0a}=9.2$  (i=1,2,...,8)

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

egq10-7n

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

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

$g^*_5 = 99$ ,  $g^*_9 = 99$   $g^*_5 = 30$ ,  $g^*_9 = 23$   $g^*_5 = 88$ ,  $g^*_9 = 74$

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

$\Delta L^*_{0a}=9.2$  (i=1,2,...,8)

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

egq11-7n