

9stufige Grauskalierung zwischen $L^*_{0aN}=50.0$ und $L^*_{0aW}=50.0$, $Y_{ref}=3.6$, Normierung Grau U

$L^*_{0aN}=49.9$, $L^*_{0aU}=0.0$, $L^*_{0aW}=50.0$, $Y_{0aN}=3.6$, $Y_{0aU}=18.0$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=25.0$
 $L^*_{1aN}=-34.0$, $L^*_{1aU}=0.0$, $L^*_{1aW}=45.5$, $Y_{1aN}=6.0$, $Y_{1aU}=18.0$, $Y_{1aW}=78.0$, $C_{1aY}=Y_{1aW}:Y_{1aN}=13.0$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$ mit $Y_0=18$
 $g^*_5 = 100$, $g^*_9 = 100$, $g^*_5 = 63$, $g^*_9 = 57$ $g^*_5 = 97$, $g^*_9 = 89$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0.i	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	$(L^*1r)^{1/1.21}$	L*1a	ΔL^*1a	L*1r	ΔL^*1a	
50	9	50.0	1.0	90.0	1.0	45.5	11.9	1.0	78.0	1.0	45.5	10.0	1.0	45.5	
8	8	37.5	0.875	60.2	0.655	33.6	0.85	53.1	0.875	35.6	10.0	1.0	35.6	10.0	
25	7	25.0	0.75	40.2	0.424	22.0	11.6	0.704	36.5	0.749	25.5	10.1	1.0	25.5	
6	6	12.5	0.625	26.9	0.27	10.7	11.3	0.563	25.4	0.622	15.5	10.0	1.0	15.5	
0	5	0.0	0.5	18.0	0.167	0.0	10.7	0.428	18.0	0.497	5.4	10.0	1.0	5.4	
4	4	-12.4	0.375	12.0	0.098	-9.9	9.1	0.302	13.0	0.373	-4.3	9.7	1.0	-4.3	
-25	3	-24.9	0.25	8.0	0.051	-19.1	8.1	0.188	9.7	0.251	-14.0	9.5	1.0	-14.0	
2	2	-37.4	0.125	5.4	0.021	-27.2	6.9	0.086	7.5	0.132	-23.5	10.5	1.0	-23.5	
-50	1	-49.9	0.0	3.6	0.0	-34.0	0.0	6.0	6.0	0.0	-34.0	10.5	1.0	-34.0	

$\Delta L^*_{0a}=12.5$ (i=1,2,...,8) Normierung: $Y_{1aU}=Y_{0aU}$, $Y_{1aW}=Y_{0aW}$

9stufige Grauskalierung zwischen $L^*_{0aN}=50.0$ und $L^*_{0aW}=50.0$, $Y_{ref}=0.9$, Normierung Grau U

$L^*_{0aN}=49.9$, $L^*_{0aU}=0.0$, $L^*_{0aW}=50.0$, $Y_{0aN}=3.6$, $Y_{0aU}=18.0$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=25.0$
 $L^*_{1aN}=-44.5$, $L^*_{1aU}=0.0$, $L^*_{1aW}=48.8$, $Y_{1aN}=4.3$, $Y_{1aU}=18.0$, $Y_{1aW}=86.6$, $C_{1aY}=Y_{1aW}:Y_{1aN}=20.2$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$ mit $Y_0=18$
 $g^*_5 = 100$, $g^*_9 = 100$, $g^*_5 = 86$, $g^*_9 = 83$ $g^*_5 = 99$, $g^*_9 = 97$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0.i	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	$(L^*1r)^{1/1.06}$	L*1a	ΔL^*1a	L*1r	ΔL^*1a	
50	9	50.0	1.0	90.0	1.0	48.8	12.3	1.0	86.6	1.0	48.8	11.6	1.0	48.8	
8	8	37.5	0.875	60.2	0.655	36.4	12.3	0.868	58.2	0.875	37.1	11.7	1.0	37.1	
25	7	25.0	0.75	40.2	0.424	24.2	12.3	0.736	39.2	0.75	25.4	11.7	1.0	25.4	
6	6	12.5	0.625	26.9	0.27	12.0	12.2	0.606	26.5	0.624	13.7	11.7	1.0	13.7	
0	5	0.0	0.5	18.0	0.167	0.0	11.8	0.477	18.0	0.499	2.0	11.7	1.0	2.0	
4	4	-12.4	0.375	12.0	0.098	-11.7	11.4	0.351	12.3	0.374	-9.6	11.6	1.0	-9.6	
-25	3	-24.9	0.25	8.0	0.051	-23.1	11.0	0.229	8.5	0.25	-21.2	11.5	1.0	-21.2	
2	2	-37.4	0.125	5.4	0.021	-34.1	10.4	0.111	6.0	0.127	-32.7	11.8	1.0	-32.7	
-50	1	-49.9	0.0	3.6	0.0	-44.5	0.0	4.3	4.3	0.0	-44.5	11.8	1.0	-44.5	

$\Delta L^*_{0a}=12.5$ (i=1,2,...,8) Normierung: $Y_{1aU}=Y_{0aU}$, $Y_{1aW}=Y_{0aW}$

9stufige Grauskalierung zwischen $L^*_{0aN}=50.0$ und $L^*_{0aW}=50.0$, $Y_{ref}=1.8$, Normierung Grau U

$L^*_{0aN}=49.9$, $L^*_{0aU}=0.0$, $L^*_{0aW}=50.0$, $Y_{0aN}=3.6$, $Y_{0aU}=18.0$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=25.0$
 $L^*_{1aN}=-40.3$, $L^*_{1aU}=0.0$, $L^*_{1aW}=47.6$, $Y_{1aN}=4.9$, $Y_{1aU}=18.0$, $Y_{1aW}=83.4$, $C_{1aY}=Y_{1aW}:Y_{1aN}=17.0$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$ mit $Y_0=18$
 $g^*_5 = 100$, $g^*_9 = 100$, $g^*_5 = 76$, $g^*_9 = 72$ $g^*_5 = 98$, $g^*_9 = 94$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0.i	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	$(L^*1r)^{1/1.12}$	L*1a	ΔL^*1a	L*1r	ΔL^*1a	
50	9	50.0	1.0	90.0	1.0	47.6	12.2	1.0	83.4	1.0	47.6	11.0	1.0	47.6	
8	8	37.5	0.875	60.2	0.655	35.4	12.0	0.861	56.3	0.875	36.7	11.0	1.0	36.7	
25	7	25.0	0.75	40.2	0.424	23.4	11.8	0.724	38.2	0.75	25.6	11.1	1.0	25.6	
6	6	12.5	0.625	26.9	0.27	11.5	11.5	0.59	26.1	0.624	14.5	11.0	1.0	14.5	
0	5	0.0	0.5	18.0	0.167	0.0	11.1	0.458	18.0	0.498	3.5	11.0	1.0	3.5	
4	4	-12.4	0.375	12.0	0.098	-11.0	10.6	0.332	12.6	0.373	-7.4	10.8	1.0	-7.4	
-25	3	-24.9	0.25	8.0	0.051	-21.6	9.8	0.212	8.9	0.25	-18.2	10.7	1.0	-18.2	
2	2	-37.4	0.125	5.4	0.021	-31.4	8.9	0.101	6.5	0.129	-29.0	11.3	1.0	-29.0	
-50	1	-49.9	0.0	3.6	0.0	-40.3	0.0	4.9	4.9	0.0	-40.3	11.3	1.0	-40.3	

$\Delta L^*_{0a}=12.5$ (i=1,2,...,8) Normierung: $Y_{1aU}=Y_{0aU}$, $Y_{1aW}=Y_{0aW}$

9stufige Grauskalierung zwischen $L^*_{0aN}=50.0$ und $L^*_{0aW}=50.0$, $Y_{ref}=90.0$, Normierung Grau U

$L^*_{0aN}=49.9$, $L^*_{0aU}=0.0$, $L^*_{0aW}=50.0$, $Y_{0aN}=3.6$, $Y_{0aU}=18.0$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=25.0$
 $L^*_{1aN}=-4.4$, $L^*_{1aU}=0.0$, $L^*_{1aW}=15.9$, $Y_{1aN}=15.6$, $Y_{1aU}=18.0$, $Y_{1aW}=30.0$, $C_{1aY}=Y_{1aW}:Y_{1aN}=1.9$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$ mit $Y_0=18$
 $g^*_5 = 100$, $g^*_9 = 100$, $g^*_5 = 14$, $g^*_9 = 10$ $g^*_5 = 71$, $g^*_9 = 54$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0.i	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	$(L^*1r)^{1/2.06}$	L*1a	ΔL^*1a	L*1r	ΔL^*1a	
50	9	50.0	1.0	90.0	1.0	15.9	5.6	1.0	30.0	1.0	15.9	2.9	1.0	15.9	
8	8	37.5	0.875	60.2	0.655	10.2	4.4	0.723	25.0	0.854	12.9	2.8	1.0	12.9	
25	7	25.0	0.75	40.2	0.424	5.8	3.3	0.505	21.7	0.718	10.1	2.5	1.0	10.1	
6	6	12.5	0.625	26.9	0.27	2.5	2.5	0.34	19.5	0.592	7.6	2.3	1.0	7.6	
0	5	0.0	0.5	18.0	0.167	0.0	1.8	0.219	18.0	0.478	5.3	2.1	1.0	5.3	
4	4	-12.4	0.375	12.0	0.098	-1.7	1.2	0.132	17.0	0.374	3.1	2.0	1.0	3.1	
-25	3	-24.9	0.25	8.0	0.051	-2.9	0.8	0.071	16.3	0.277	1.2	2.0	1.0	1.2	
2	2	-37.4	0.125	5.4	0.021	-3.8	0.6	0.029	15.9	0.179	-0.7	2.0	1.0	-0.7	
-50	1	-49.9	0.0	3.6	0.0	-4.4	0.0	0.0	15.6	0.0	-4.4	2.0	1.0	-4.4	

$\Delta L^*_{0a}=12.5$ (i=1,2,...,8) Normierung: $Y_{1aU}=Y_{0aU}$, $Y_{1aW}=Y_{0aW}$

Technische Information: http://farbe.li.tu-berlin.de/iea4/iea4.htm

TUB-Registrierung: 2023/0701-iea4/iea410n1.txt / ps Anwendung für Beurteilung und Messung von Display- oder Druck-Ausgabe TUB-Material: Code=ha4ta