

9stufige Grauskalierung zwischen $L^*_{0aN}=18$ & $L^*_{0aW}=135.1$, $Y_{0ref}=4$, Normierung Weiß W

$L^*_{0aN}=18.3$, $L^*_{0aU}=76.7$, $L^*_{0aW}=135.1$, $Y_{0aN}=2.0$, $Y_{0aU}=54.3$, $Y_{0aW}=200.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=100.0$
 $L^*_{taN}=29.2$, $L^*_{taU}=78.4$, $L^*_{taW}=135.1$, $Y_{taN}=5.9$, $Y_{taU}=57.1$, $Y_{taW}=200.0$, $C_{taY}=Y_{taW}:Y_{taN}=34.0$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBsRGB,W} = 100 [Y/Y_n]^{1/\ln(10)}$ mit $Y \geq 0,39 = 100/255$, $Y_n=100$
 $g^*_5 = 99$, $g^*_9 = 99$ $g^*_5 = 77$, $g^*_9 = 69$ $g^*_5 = 67$, $g^*_9 = 60$

L*TUBsRGB,W angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe	
n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr) ^{1/1.34}	L*la	ΔL*la
 9	135.1	1.0	200.0	1.0	135.1		1.0	200.0	1.0	135.1	
 8	120.5	0.875	153.7	0.766	120.8	14.3	0.865	154.6	0.897	124.2	10.9
 7	105.9	0.75	114.1	0.566	106.6	14.2	0.73	115.8	0.791	113.0	11.3
 6	91.3	0.625	81.1	0.399	92.4	14.1	0.597	83.4	0.68	101.2	11.7
 5	76.7	0.5	54.3	0.264	78.4	14.0	0.465	57.1	0.564	88.9	12.3
 4	62.1	0.375	33.4	0.158	64.7	13.8	0.335	36.6	0.441	76.0	13.0
 3	47.5	0.25	18.0	0.081	51.4	13.3	0.209	21.6	0.311	62.1	13.8
 2	32.9	0.125	7.7	0.029	39.1	12.3	0.093	11.5	0.17	47.2	14.9
 1	18.3	0.0	2.0	0.0	29.2	9.9	0.0	5.9	0.0	29.2	18.0

ΔL*0a=14.6 (i=1,2,...,8) Normierung: $Y_{taiW}=Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$