

9stufige Grauskalierung zwischen $L^*_{0aN}=24$ & $L^*_{0aW}=100.0$, $Y_{0ref}=4$, Normierung Weiß W
 $L^*_{0aN}=24.7$, $L^*_{0aU}=62.3$, $L^*_{0aW}=100.0$, $Y_{0aN}=4.0$, $Y_{0aU}=33.7$, $Y_{0aW}=100.0$, $C_{0aY}=Y_{0aW}; Y_{0aN}=25.0$
 $L^*_{1aN}=32.8$, $L^*_{1aU}=64.4$, $L^*_{1aW}=100.0$, $Y_{1aN}=7.7$, $Y_{1aU}=36.2$, $Y_{1aW}=100.0$, $C_{1aY}=Y_{1aW}; Y_{1aN}=13.0$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 \left[\frac{\Delta L^*_{min}}{[\Delta L^*_{max}]} \right]$, $L^*_{TUBsRGB,W} = 100 \left[\frac{Y_{1aU}}{Y_{1aN}} \right]^{1/2.10}$ mit $Y > 0.39 = 100/255$, $Y_N = 100$
 $g^*_5 = 99$, $g^*_9 = 99$, $g^*_5 = 81$, $g^*_9 = 76$ $g^*_5 = 79$, $g^*_9 = 73$

L*	TUBsRGB,W angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	(L*1r) ^{1/2.1}	L*1a	ΔL^*1a	L*1a	ΔL^*1a	
100	9	100.0	1.0	100.0	1.0	100.0	0.0	100.0	1.0	100.0	0.0	100.0	0.0	100.0	7.5
90	8	90.6	0.875	79.6	0.788	91.0	9.0	86.6	80.4	0.888	92.5	4.5	89.0	7.7	
75	7	81.2	0.75	61.9	0.603	82.0	9.0	73.2	63.3	0.773	84.8	8.8	78.9	7.9	
60	6	71.8	0.625	46.6	0.443	73.1	8.9	0.6	48.6	0.656	76.9	8.1	63.0	8.3	
45	5	62.3	0.5	33.7	0.309	64.4	8.8	0.469	36.2	0.536	68.8	8.3	48.3	8.5	
30	4	52.9	0.375	23.1	0.199	55.8	8.3	0.342	26.1	0.412	60.5	8.5	38.5	8.5	
15	3	43.5	0.25	14.7	0.112	47.5	8.3	0.218	18.0	0.285	52.0	8.9	28.5	8.9	
0	2	34.1	0.125	8.4	0.046	39.7	6.9	0.103	11.9	0.153	43.1	10.3	18.5	10.3	
0	1	24.7	0.0	4.0	0.0	32.8	6.9	0.0	7.7	0.0	32.8	8.8	10.3	10.3	

$\Delta L^*_{0a} = 9.4$ (i=1,2,...,8)

Normierung: $Y_{1aU} = Y_{0aW}$ $\frac{Y_{0aU} + Y_{0ref}}{Y_{0aW} + Y_{0ref}}$

9stufige Grauskalierung zwischen $L^*_{0aN}=24$ & $L^*_{0aW}=100.0$, $Y_{0ref}=1$, Normierung Weiß W
 $L^*_{0aN}=24.7$, $L^*_{0aU}=62.3$, $L^*_{0aW}=100.0$, $Y_{0aN}=4.0$, $Y_{0aU}=33.7$, $Y_{0aW}=100.0$, $C_{0aY}=Y_{0aW}; Y_{0aN}=25.0$
 $L^*_{1aN}=27.1$, $L^*_{1aU}=62.9$, $L^*_{1aW}=100.0$, $Y_{1aN}=4.9$, $Y_{1aU}=34.4$, $Y_{1aW}=100.0$, $C_{1aY}=Y_{1aW}; Y_{1aN}=20.2$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 \left[\frac{\Delta L^*_{min}}{[\Delta L^*_{max}]} \right]$, $L^*_{TUBsRGB,W} = 100 \left[\frac{Y_{1aU}}{Y_{1aN}} \right]^{1/2.10}$ mit $Y > 0.39 = 100/255$, $Y_N = 100$
 $g^*_5 = 99$, $g^*_9 = 99$, $g^*_5 = 94$, $g^*_9 = 91$ $g^*_5 = 92$, $g^*_9 = 90$

L*	TUBsRGB,W angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	(L*1r) ^{1/2.106}	L*1a	ΔL^*1a	L*1a	ΔL^*1a	
100	9	100.0	1.0	100.0	1.0	100.0	0.0	100.0	1.0	100.0	0.0	100.0	0.0	100.0	8.8
90	8	90.6	0.875	79.6	0.788	90.7	9.3	0.872	79.8	0.789	91.2	8.8	88.8	8.8	
75	7	81.2	0.75	61.9	0.603	81.4	9.3	0.745	62.2	0.578	82.4	8.9	73.4	8.9	
60	6	71.8	0.625	46.6	0.443	72.1	9.2	0.617	47.1	0.636	73.4	9.0	64.0	9.0	
45	5	62.3	0.5	33.7	0.309	62.9	9.2	0.491	34.4	0.512	64.4	9.1	48.3	9.1	
30	4	52.9	0.375	23.1	0.199	53.7	9.1	0.365	23.9	0.387	55.3	9.2	38.5	9.2	
15	3	43.5	0.25	14.7	0.112	44.6	9.1	0.24	15.6	0.261	46.2	9.3	28.5	9.3	
0	2	34.1	0.125	8.4	0.046	35.7	8.6	0.117	9.3	0.134	36.8	9.7	18.5	9.7	
0	1	24.7	0.0	4.0	0.0	27.1	8.6	0.0	4.9	0.0	27.1	10.3	10.3	10.3	

$\Delta L^*_{0a} = 9.4$ (i=1,2,...,8)

Normierung: $Y_{1aU} = Y_{0aW}$ $\frac{Y_{0aU} + Y_{0ref}}{Y_{0aW} + Y_{0ref}}$

9stufige Grauskalierung zwischen $L^*_{0aN}=24$ & $L^*_{0aW}=100.0$, $Y_{0ref}=2$, Normierung Weiß W
 $L^*_{0aN}=24.7$, $L^*_{0aU}=62.3$, $L^*_{0aW}=100.0$, $Y_{0aN}=4.0$, $Y_{0aU}=33.7$, $Y_{0aW}=100.0$, $C_{0aY}=Y_{0aW}; Y_{0aN}=25.0$
 $L^*_{1aN}=29.2$, $L^*_{1aU}=63.4$, $L^*_{1aW}=100.0$, $Y_{1aN}=5.9$, $Y_{1aU}=35.0$, $Y_{1aW}=100.0$, $C_{1aY}=Y_{1aW}; Y_{1aN}=17.0$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 \left[\frac{\Delta L^*_{min}}{[\Delta L^*_{max}]} \right]$, $L^*_{TUBsRGB,W} = 100 \left[\frac{Y_{1aU}}{Y_{1aN}} \right]^{1/2.10}$ mit $Y > 0.39 = 100/255$, $Y_N = 100$
 $g^*_5 = 99$, $g^*_9 = 99$, $g^*_5 = 89$, $g^*_9 = 85$ $g^*_5 = 87$, $g^*_9 = 83$

L*	TUBsRGB,W angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	(L*1r) ^{1/2.12}	L*1a	ΔL^*1a	L*1a	ΔL^*1a	
100	9	100.0	1.0	100.0	1.0	100.0	0.0	100.0	1.0	100.0	0.0	100.0	0.0	100.0	8.3
90	8	90.6	0.875	79.6	0.788	90.8	9.2	0.87	80.0	0.883	91.7	8.4	88.4	8.4	
75	7	81.2	0.75	61.9	0.603	81.6	9.1	0.74	62.6	0.764	83.3	8.5	78.5	8.5	
60	6	71.8	0.625	46.6	0.443	72.5	9.1	0.611	47.6	0.644	74.8	8.6	63.0	8.6	
45	5	62.3	0.5	33.7	0.309	63.4	9.0	0.483	35.0	0.522	66.1	8.8	48.3	8.8	
30	4	52.9	0.375	23.1	0.199	54.4	8.8	0.356	24.6	0.397	57.3	9.0	38.5	9.0	
15	3	43.5	0.25	14.7	0.112	45.6	8.5	0.232	16.4	0.271	48.4	9.2	28.5	9.2	
0	2	34.1	0.125	8.4	0.046	37.1	7.9	0.111	10.2	0.141	39.2	10.0	18.5	10.0	
0	1	24.7	0.0	4.0	0.0	29.2	7.9	0.0	5.9	0.0	29.2	10.3	10.3	10.3	

$\Delta L^*_{0a} = 9.4$ (i=1,2,...,8)

Normierung: $Y_{1aU} = Y_{0aW}$ $\frac{Y_{0aU} + Y_{0ref}}{Y_{0aW} + Y_{0ref}}$

9stufige Grauskalierung zwischen $L^*_{0aN}=24$ & $L^*_{0aW}=100.0$, $Y_{0ref}=100$, Normierung Weiß W
 $L^*_{0aN}=24.7$, $L^*_{0aU}=62.3$, $L^*_{0aW}=100.0$, $Y_{0aN}=4.0$, $Y_{0aU}=33.7$, $Y_{0aW}=100.0$, $C_{0aY}=Y_{0aW}; Y_{0aN}=25.0$
 $L^*_{1aN}=75.3$, $L^*_{1aU}=83.9$, $L^*_{1aW}=100.0$, $Y_{1aN}=52.0$, $Y_{1aU}=66.8$, $Y_{1aW}=100.0$, $C_{1aY}=Y_{1aW}; Y_{1aN}=1.9$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen
 $g^* = 100 \left[\frac{\Delta L^*_{min}}{[\Delta L^*_{max}]} \right]$, $L^*_{TUBsRGB,W} = 100 \left[\frac{Y_{1aU}}{Y_{1aN}} \right]^{1/2.10}$ mit $Y > 0.39 = 100/255$, $Y_N = 100$
 $g^*_5 = 99$, $g^*_9 = 99$, $g^*_5 = 37$, $g^*_9 = 30$ $g^*_5 = 51$, $g^*_9 = 38$

L*	TUBsRGB,W angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	n0	L*0a	L*0r	Y0a	Y0r	L*1a	ΔL^*1a	L*1r	Y1a	(L*1r) ^{1/2.06}	L*1a	ΔL^*1a	L*1a	ΔL^*1a	
100	9	100.0	1.0	100.0	1.0	100.0	0.0	100.0	1.0	100.0	0.0	100.0	0.0	100.0	2.3
90	8	90.6	0.875	79.6	0.788	95.4	4.5	0.816	89.8	0.906	97.7	2.4	92.7	2.4	
75	7	81.2	0.75	61.9	0.603	91.2	4.2	0.645	80.9	0.808	95.3	2.5	88.5	2.5	
60	6	71.8	0.625	46.6	0.443	87.4	3.4	0.489	73.3	0.707	92.7	2.6	80.1	2.6	
45	5	62.3	0.5	33.7	0.309	83.9	3.4	0.351	66.8	0.602	90.1	2.7	66.0	2.7	
30	4	52.9	0.375	23.1	0.199	81.0	2.9	0.232	61.6	0.492	87.4	2.9	52.9	2.9	
15	3	43.5	0.25	14.7	0.112	78.5	2.4	0.133	57.4	0.375	84.5	3.2	43.5	3.2	
0	2	34.1	0.125	8.4	0.046	76.6	1.9	0.055	54.2	0.246	81.3	3.2	34.1	3.2	
0	1	24.7	0.0	4.0	0.0	75.3	1.4	0.0	52.0	0.0	75.3	6.1	10.3	6.1	

$\Delta L^*_{0a} = 9.4$ (i=1,2,...,8)

Normierung: $Y_{1aU} = Y_{0aW}$ $\frac{Y_{0aU} + Y_{0ref}}{Y_{0aW} + Y_{0ref}}$

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TUB-Material: Code=ha4ta