

16stufige Grauskalierung zwischen L^*_N und L^*_W für 3 Reflexionen des Umgebungslichts

L^*	keine Umgebungsreflexion $Y_N=0, L^*_N=0$						Umgebungsreflexion $Y_N=2,5, L^*_N=18$						Umgebungsreflexion $Y_N=40, L^*_N=70$								
	Helligkeitsdifferenz $\Delta L^*=6,3$						Helligkeitsdifferenz $\Delta L^*=5,1$						Helligkeitsdifferenz $\Delta L^*=1,7$								
	n0.	w^*	w^*_r	L^*_{it}	L^*_{re}	Y_{re}	n0.	w^*	w^*_r	L^*_{it}	L^*_{re}	Y_{re}	n0.	w^*	w^*_r	L^*_{it}	L^*_{re}	Y_{re}			
100	○	16	1.0	1.0	95.4	95.4	88.59	○	16	1.0	1.0	95.4	95.4	88.59	○	16	1.0	1.0	95.4	95.4	88.59
	●	15	0.933	0.933	89.0	89.0	74.27	●	15	0.945	0.933	90.2	89.2	74.67	●	15	0.928	0.733	88.5	83.1	62.49
	●	14	0.866	0.866	82.6	82.6	61.58	●	14	0.891	0.866	85.0	83.0	62.34	●	14	0.892	0.6	85.1	78.4	54.03
80	●	13	0.8	0.8	76.3	76.3	50.42	●	13	0.837	0.799	79.9	76.9	51.51	●	13	0.874	0.533	83.4	76.5	50.76
	●	12	0.733	0.733	69.9	69.9	40.7	●	12	0.783	0.733	74.7	70.9	42.06	●	12	0.856	0.466	81.6	74.8	48.06
	●	11	0.666	0.666	63.6	63.6	32.32	●	11	0.729	0.666	69.6	64.9	33.92	●	11	0.838	0.399	79.9	73.4	45.86
	●	10	0.6	0.6	57.2	57.2	25.17	●	10	0.675	0.599	64.4	58.9	26.98	●	10	0.82	0.333	78.2	72.3	44.13
	●	9	0.533	0.533	50.8	50.8	19.17	●	9	0.621	0.533	59.2	53.1	21.14	●	9	0.802	0.266	76.5	71.4	42.8
	●	8	0.466	0.466	44.5	44.5	14.2	●	8	0.567	0.466	54.1	47.3	16.32	●	8	0.784	0.199	74.8	70.7	41.82
60	●	7	0.4	0.4	38.1	38.1	10.18	●	7	0.513	0.4	48.9	41.8	12.41	●	7	0.766	0.133	73.1	70.2	41.14
	●	6	0.333	0.333	31.8	31.8	7.0	●	6	0.459	0.333	43.8	36.5	9.32	●	6	0.748	0.066	71.4	69.9	40.7
	●	5	0.266	0.266	25.4	25.4	4.56	●	5	0.405	0.266	38.6	31.6	6.95	●	5	0.73	0.0	69.6	69.6	40.32
	●	4	0.2	0.2	19.0	19.0	2.76	●	4	0.351	0.199	33.4	27.3	5.2	●	4	0.714	0.0	67.8	67.8	40.0
40	●	3	0.133	0.133	12.7	12.7	1.51	●	3	0.296	0.133	28.3	23.6	3.99	●	3	0.698	0.0	66.0	66.0	39.7
	●	2	0.066	0.066	6.3	6.3	0.7	●	2	0.242	0.066	23.1	20.8	3.2	●	2	0.682	0.0	64.2	64.2	39.4
	●	1	0.0	0.0	0.0	0.0	0.0	●	1	0.188	0.0	18.0	18.0	2.52	●	1	0.666	0.0	62.4	62.4	39.1
20	●	1	0.0	0.0	0.0	0.0	0.0														
0	●	1	0.0	0.0	0.0	0.0	0.0														

ISO/CIE 11664-4: L^*_{it} = angestrebte CIELAB-Helligkeit der Ausgabe

IEC 61966-2-1: w^*_{sRGB} ist ungefähr proportional zu L^*

$$w^*_{sRGB} = L^*/95,4; \quad w^*_r = [L^* - L^*_N] / [L^*_W - L^*_N]$$

L^*_{re} = realer Normfarbwert ohne Ausgabe-Linearisierung