

Equal 9 step grey scaling between $L^*_{0aN}=14.4$ and $L^*_{0aW}=125$, $Y_{0ref}=14.4$, normalisation: grey U

$L^*_{0aN}=14.4$, $L^*_{0aU}=69.7$, $L^*_{0aW}=125.1$, $Y_{0aN}=1.8$, $Y_{0aU}=40.4$, $Y_{0aW}=180.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=100.0$
 $L^*_{taN}=41.1$, $L^*_{taU}=69.7$, $L^*_{taW}=114.8$, $Y_{taN}=11.9$, $Y_{taU}=40.4$, $Y_{taW}=143.3$, $C_{taY}=Y_{taW}:Y_{taN}=12.0$

regularity index according to ISO/IEC 15775:2022, Annex G for 5 and 9 steps

$$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$$

L*	intended output				real output				linearized output			
	n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL^*_{ta}	L*tr	Yta	$(L^*_{tr})^{1/1.37}$	L*la	ΔL^*_{la}
150	9	125.1	1.0	180.0	1.0	114.8	11.8	1.0	143.3	1.0	114.8	8.8
100	8	111.3	0.875	132.0	0.731	103.0	11.5	0.84	108.0	0.88	106.0	9.0
70	7	97.4	0.75	93.5	0.514	91.5	11.1	0.684	79.5	0.757	96.9	9.3
50	6	83.6	0.625	63.3	0.345	80.3	10.6	0.532	57.3	0.631	87.6	9.5
30	5	69.7	0.5	40.4	0.217	69.7	9.7	0.389	40.4	0.502	78.1	9.6
10	4	55.9	0.375	23.8	0.124	60.0	8.4	0.257	28.2	0.371	68.4	9.5
0	3	42.1	0.25	12.5	0.06	51.7	6.4	0.143	19.9	0.242	59.0	8.9
0	2	28.2	0.125	5.5	0.021	45.2	4.1	0.056	14.7	0.121	50.1	8.9
0	1	14.4	0.0	1.8	0.0	41.1		0.0	11.9	0.0	41.1	

$$\Delta L^*_{ta}=13.8 \quad (i=1,2,\dots,9)$$

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