

Equal 9 step grey scaling between $L^*_{0aN}=-48.3$ and $L^*_{0aW}=48.3$, $Y_{0ref}=3.6$, normalisation grey U

$L^*_{0aN}=-48.3$, $L^*_{0aU}=0.0$, $L^*_{0aW}=48.4$, $Y_{0aN}=2.6$, $Y_{0aU}=18.0$, $Y_{0aW}=126.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=49.0$
 $L^*_{taN}=-31.1$, $L^*_{taU}=0.0$, $L^*_{taW}=44.5$, $Y_{taN}=5.1$, $Y_{taU}=18.0$, $Y_{taW}=108.0$, $C_{taY}=Y_{taW}:Y_{taN}=21.0$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBJND1} = 40 / \log(5) [\log (Y/Y_u)]$ with $Y_u=18$

$g^*_5 = 100$, $g^*_9 = 100$

$g^*_5 = 56$, $g^*_9 = 49$

$g^*_5 = 97$, $g^*_9 = 89$

$L^*_{TUBJND1}$	n0. i	intended output				real output					linearized output	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.27}$	L^*_{la}	ΔL^*_{la}
50	9	48.4	1.0	126.0	1.0	44.5		1.0	108.0	1.0	44.5	
	8						11.7					9.3
	7	36.3	0.875	77.4	0.607	32.9		0.846	67.5	0.877	35.2	
25	6	24.2	0.75	47.6	0.365	21.4		0.695	42.7	0.751	25.7	
	5						11.0					9.6
	4	12.1	0.625	29.3	0.216	10.4		0.549	27.4	0.624	16.1	
	3						10.4					9.6
0	2	0.0	0.5	18.0	0.125	0.0		0.411	18.0	0.497	6.5	
	1						9.6					9.5
	8	-12.0	0.375	11.1	0.069	-9.5		0.284	12.2	0.372	-2.9	
	7						8.5					9.2
-25	6	-24.1	0.25	6.8	0.034	-18.1		0.171	8.7	0.25	-12.1	
	5						7.2					8.9
	4	-36.2	0.125	4.2	0.013	-25.3		0.076	6.5	0.132	-21.1	
	3						5.8					10.0
-50	2	-48.3	0.0	2.6	0.0	-31.1		0.0	5.1	0.0	-31.1	
	1											

$\Delta L^*_{0a}=12.1$ (i=1,2,...,8)

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