Equal 9 step grey scaling between $L^*_{0aN}=-52$ & $L^*_{0aW}=52.9$, $Y_{0ref}=1$, normalisation white W

$L^*_{0aN}=-52.8$, $L^*_{0aU}=0.0$, $L^*_{0aW}=53.0$, $Y_{0aN}=3.6$, $Y_{0aU}=20.0$, $Y_{0aW}=110.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=30.2$

$L^*_{taN}=-45.6$, $L^*_{taU}=1.2$, $L^*_{taW}=53.0$, $Y_{taN}=4.6$, $Y_{taU}=20.8$, $Y_{taW}=110.0$, $C_{taY}=Y_{taW}:Y_{taN}=23.9$

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

$g^* = 100\,[\Delta L^*_{min}]/[\Delta L^*_{max}]$, $L^*_{TUBLOG,Ua} = 50/\log(5)\,[\,\log(Y/Y_u)\,]$ with $Y_u=20$

$g^*_5= 99$, $g^*_9= 99$ $\qquad$ $g^*_5= 85$, $g^*_9= 82$ $\qquad$ $g^*_5= 99$, $g^*_9= 97$

$L^*_{TUBLOG,Ua}$		intended output				real output					linearized output	
	n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)^{1/1.07}	L*la	ΔL*la
60	9	53.0	1.0	110.0	1.0	53.0		1.0	110.0	1.0	53.0	
							13.1					12.3
	8	39.7	0.875	71.8	0.641	39.9		0.867	72.2	0.875	40.6	
30							13.0					12.3
	7	26.5	0.75	46.9	0.407	26.9		0.735	47.5	0.75	28.3	
							12.9					12.4
	6	13.2	0.625	30.6	0.254	14.0		0.605	31.3	0.624	15.9	
							12.7					12.4
0	5	0.0	0.5	20.0	0.154	1.2		0.476	20.8	0.499	3.5	
							12.5					12.3
	4	−13.1	0.375	13.1	0.089	−11.1		0.349	13.9	0.374	−8.7	
							12.1					12.2
−30	3	−26.4	0.25	8.5	0.046	−23.2		0.227	9.4	0.249	−21.0	
							11.5					12.1
	2	−39.6	0.125	5.6	0.018	−34.8		0.11	6.5	0.126	−33.1	
							10.8					12.5
	1	−52.8		3.6	0.0	−45.6		0.0	4.6		−45.6	
−60												

$\Delta L^*_{0a}=13.2$ $\qquad$ (i=1,2,...,8)

normalisation: $Y_{taiW}=Y_{0aW}\dfrac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

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