Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=3.6, normalisation grey *U*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9

L^*_{taN}=23.1, L^*_{taU}=52.1, L^*_{taW}=91.4, Y_{taN}=3.8, Y_{taU}=20.2, Y_{taW}=79.4, C_{taY}=Y_{taW}:Y_{taN}=20.8

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

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ − 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB}						**g^*_5= 99, g^*_9= 99**		**g^*_5= 58, g^*_9= 47**			**g^*_5= 93, g^*_9= 91**	
		intended output				**real output**					**linearized output**	
	n0. i	**L*0a**	**L*0r**	**Y0a**	**Y0r**	**L*ta**	**ΔL*ta**	**L*tr**	**Yta**	**(L*tr)$^{1/1.25}$**	**L*la**	**ΔL*la**
100	9	96.0	1.0	90.0	1.0	91.4		1.0	79.4	1.0	91.4	
							10.1					8.2
	8	85.0	0.875	66.0	0.731	81.3		0.852	59.1	0.88	83.2	
							10.0					8.4
75	7	74.0	0.75	46.7	0.515	71.4		0.707	42.7	0.757	74.8	
							9.8					8.6
	6	63.0	0.625	31.6	0.345	61.6		0.563	29.9	0.631	66.2	
							9.5					8.8
50	5	52.1	0.5	20.2	0.217	52.1		0.424	20.2	0.502	57.4	
							9.0					8.9
	4	41.1	0.375	11.9	0.124	43.0		0.292	13.2	0.372	48.5	
							8.2					8.9
25	3	30.1	0.25	6.3	0.06	34.8		0.171	8.4	0.243	39.6	
							6.9					8.5
	2	19.1	0.125	2.8	0.021	27.9		0.07	5.4	0.119	31.2	
							4.8					8.1
0	1	8.1	0.0	0.9	0.0	23.1		0.0	3.8	0.0	23.1	

ΔL^*_{0a}=11.0 (i=1,2,...,8) **normalisation: Y_{taiU}=Y_{0aU} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$**

eep50−3n

Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=0.9, normalisation grey *U*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9

L^*_{taN}=14.0, L^*_{taU}=52.1, L^*_{taW}=94.7, Y_{taN}=1.7, Y_{taU}=20.2, Y_{taW}=87.0, C_{taY}=Y_{taW}:Y_{taN}=50.5

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

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ − 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB}						**g^*_5= 99, g^*_9= 99**		**g^*_5= 81, g^*_9= 74**			**g^*_5= 96, g^*_9= 94**	
		intended output				**real output**					**linearized output**	
	n0. i	**L*0a**	**L*0r**	**Y0a**	**Y0r**	**L*ta**	**ΔL*ta**	**L*tr**	**Yta**	**(L*tr)$^{1/1.09}$**	**L*la**	**ΔL*la**
100	9	96.0	1.0	90.0	1.0	94.7		1.0	87.0	1.0	94.7	
							10.7					9.9
	8	85.0	0.875	66.0	0.731	84.0		0.867	64.1	0.877	84.8	
							10.7					10.0
75	7	74.0	0.75	46.7	0.515	73.3		0.734	45.6	0.753	74.8	
							10.6					10.1
	6	63.0	0.625	31.6	0.345	62.6		0.602	31.1	0.628	64.7	
							10.6					10.2
50	5	52.1	0.5	20.2	0.217	52.1		0.472	20.2	0.502	54.5	
							10.4					10.3
	4	41.1	0.375	11.9	0.124	41.6		0.343	12.3	0.374	44.2	
							10.1					10.3
25	3	30.1	0.25	6.3	0.06	31.5		0.217	6.9	0.246	33.8	
							9.5					10.2
	2	19.1	0.125	2.8	0.021	22.0		0.099	3.5	0.12	23.7	
							8.0					9.7
0	1	8.1	0.0	0.9	0.0	14.0		0.0	1.7	0.0	14.0	

ΔL^*_{0a}=11.0 (i=1,2,...,8) **normalisation: Y_{taiU}=Y_{0aU} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$**

eep51−3n

Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=0.4, normalisation grey *U*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9

L^*_{taN}=11.1, L^*_{taU}=52.1, L^*_{taW}=95.4, Y_{taN}=1.3, Y_{taU}=20.2, Y_{taW}=88.6, C_{taY}=Y_{taW}:Y_{taN}=69.5

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

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ − 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB}						**g^*_5= 99, g^*_9= 99**		**g^*_5= 90, g^*_9= 86**			**g^*_5= 97, g^*_9= 96**	
		intended output				**real output**					**linearized output**	
	n0. i	**L*0a**	**L*0r**	**Y0a**	**Y0r**	**L*ta**	**ΔL*ta**	**L*tr**	**Yta**	**(L*tr)$^{1/1.04}$**	**L*la**	**ΔL*la**
100	9	96.0	1.0	90.0	1.0	95.4		1.0	88.6	1.0	95.4	
							10.9					10.4
	8	85.0	0.875	66.0	0.731	84.5		0.871	65.1	0.876	85.0	
							10.8					10.5
75	7	74.0	0.75	46.7	0.515	73.7		0.742	46.2	0.752	74.5	
							10.8					10.5
	6	63.0	0.625	31.6	0.345	62.9		0.614	31.4	0.627	63.9	
							10.8					10.6
50	5	52.1	0.5	20.2	0.217	52.1		0.486	20.2	0.501	53.3	
							10.7					10.6
	4	41.1	0.375	11.9	0.124	41.3		0.358	12.1	0.374	42.7	
							10.6					10.7
25	3	30.1	0.25	6.3	0.06	30.7		0.233	6.5	0.248	32.0	
							10.3					10.6
	2	19.1	0.125	2.8	0.021	20.5		0.111	3.1	0.122	21.4	
							9.4					10.3
0	1	8.1	0.0	0.9	0.0	11.1		0.0	1.3	0.0	11.1	

ΔL^*_{0a}=11.0 (i=1,2,...,8) **normalisation: Y_{taiU}=Y_{0aU} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$**

eep50−7n

Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=1.8, normalisation grey *U*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9

L^*_{taN}=17.8, L^*_{taU}=52.1, L^*_{taW}=93.6, Y_{taN}=2.5, Y_{taU}=20.2, Y_{taW}=84.3, C_{taY}=Y_{taW}:Y_{taN}=34.0

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

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ − 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB}						**g^*_5= 99, g^*_9= 99**		**g^*_5= 71, g^*_9= 61**			**g^*_5= 94, g^*_9= 91**	
		intended output				**real output**					**linearized output**	
	n0. i	**L*0a**	**L*0r**	**Y0a**	**Y0r**	**L*ta**	**ΔL*ta**	**L*tr**	**Yta**	**(L*tr)$^{1/1.15}$**	**L*la**	**ΔL*la**
100	9	96.0	1.0	90.0	1.0	93.6		1.0	84.3	1.0	93.6	
							10.5					9.2
	8	85.0	0.875	66.0	0.731	83.1		0.861	62.3	0.878	84.4	
							10.4					9.3
75	7	74.0	0.75	46.7	0.515	72.6		0.723	44.6	0.755	75.0	
							10.3					9.5
	6	63.0	0.625	31.6	0.345	62.3		0.587	30.7	0.629	65.5	
							10.2					9.6
50	5	52.1	0.5	20.2	0.217	52.1		0.452	20.2	0.502	55.9	
							9.9					9.8
	4	41.1	0.375	11.9	0.124	42.1		0.321	12.6	0.373	46.1	
							9.4					9.8
25	3	30.1	0.25	6.3	0.06	32.7		0.197	7.4	0.244	36.3	
							8.4					9.5
	2	19.1	0.125	2.8	0.021	24.3		0.086	4.2	0.119	26.8	
							6.5					9.0
0	1	8.1	0.0	0.9	0.0	17.8		0.0	2.5	0.0	17.8	

ΔL^*_{0a}=11.0 (i=1,2,...,8) **normalisation: Y_{taiU}=Y_{0aU} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$**

eep51−7n

Test chart eep5; Equal 9 step grey scaling for four display reflections Y_{ref}= 3,6, 0,4, 0,9, 1,8, and black $L^*_{N,CIELAB}$=8.13, Y_N=0.9 and white $L^*_{W,CIELAB}$=95.99, Y_W=90, normalisation: grey *U*