

Colorimetric data of "Standard Original": Offset Reflective System ORS18 for CIE lightness L*=18 of black and illuminant D65

System ORS18

(Reflective CIE, Y_N=2.52 and CIELAB a₀ point)
(CIELAB according to ISO/IEC 15775)

Color	L*=LAB* ₁	a*=LAB* ₂	b*=LAB* ₃	C* _{ab} =LAB* _r	X=XYZ ₁	Y=XYZ ₂	Z=XYZ ₃	x	y	Y/88.59
O (R)	50.57	68.08	52.6	86.03	34.03	3.27	0.6054	0.3363	0.2134	
Y	94.75	-10.68	95.53	96.13	77.29	87.04	0.4388	0.4941	0.9824	
L (G)	53.66	-65.42	36.4	74.87	9.84	21.65	0.2494	0.5485	0.2444	
C	61.69	-31.59	-46.87	56.53	21.21	30.05	0.8049	0.161	0.2281	0.3392
V (B)	27.44	32.38	-46.23	56.45	8.05	5.25	24.19	0.2148	0.14	0.0593
M	50.77	-8.7	78.88	83.68	37.34	19.07	25.85	0.4539	0.2319	0.2153
N	18.01	0.5	-0.46	0.69	2.42	2.52	2.81	0.3122	0.3252	0.0284
W	95.41	-0.98	4.76	4.86	83.68	88.6	89.47	0.3197	0.3385	1.0
NO	0.01	0.84	-1.68	1.89	0.02	0.0	0.12	0.1518	0.0078	0.0
W1	100.0	-1.07	5.06	5.17	94.43	100.0	100.83	0.3198	0.3387	1.1288

Calculated colorimetric data: Offset Luminous Systems OLSxxa for CIE lightness L*=xx=00, 06, 11, 18, Illuminant D65, adapted (a)

System OLS00a

(Display reflection
Y_r=0.0)

Color	L*=LAB* _{a1}	a*=LAB* _{a2}	b*=LAB* _{a3}	C* _{ab} =LAB* _{ar}	X _a =XYZ _{a1}	Y _a =XYZ _{a2}	Z _a =XYZ _{a3}	x _a	y _a	Y _a /88.59
O (R)	48.09	73.75	70.99	102.36	32.6 (=32.6+0.0)	16.86 (=16.86+0.0)	0.83 (=0.83+0.0)	0.6481	0.3353	0.1903
Y	94.73	-10.0	97.09	97.61	77.58 (=77.58+0.0)	86.99 (=86.99+0.0)	11.24 (=11.24+0.0)	0.4413	0.4948	0.9819
L (G)	51.49	-74.61	40.36	84.84	7.69 (=7.69+0.0)	19.69 (=19.69+0.0)	5.97 (=5.97+0.0)	0.2306	0.5903	0.2223
C	60.19	-33.78	-51.68	61.75	19.44 (=19.44+0.0)	28.33 (=28.33+0.0)	83.48 (=83.48+0.0)	0.1481	0.2159	0.3198
V (B)	19.27	44.69	-56.86	72.32	5.79 (=5.79+0.0)	2.81 (=2.81+0.0)	22.18 (=22.18+0.0)	0.1881	0.0913	0.0317
M	48.31	84.6	-11.45	85.38	36.01 (=36.01+0.0)	17.04 (=17.04+0.0)	24.52 (=24.52+0.0)	0.4618	0.2185	0.1923
N	0.0	0.0	0.0	0.0	0.0 (=0.0+0.0)	0.0 (=0.0+0.0)	0.0 (=0.0+0.0)	0.0	0.256	0.3514
W	95.41	0.0	0.0	0.0	84.2 (=84.2+0.0)	88.6 (=88.6+0.0)	96.46 (=96.46+0.0)	0.3127	0.329	1.0
NO	0.0	0.0	0.0	0.0	-2.45 (= -2.45+0.0)	-2.58 (= -2.58+0.0)	-2.81 (= -2.81+0.0)	0.3127	0.329	-0.0292
W1	100.13	0.0	0.0	0.01	95.36 (=95.36+0.0)	100.34 (=100.34+0.0)	109.26 (=109.26+0.0)	0.3127	0.329	1.1325

System OLS06a

(Display reflection
Y_r=0.63)

Color	L*=LAB* _{a1}	a*=LAB* _{a2}	b*=LAB* _{a3}	C* _{ab} =LAB* _{ar}	X _a =XYZ _{a1}	Y _a =XYZ _{a2}	Z _a =XYZ _{a3}	x _a	y _a	Y _a /88.59
O (R)	48.73	72.3	63.51	96.23	32.96 (=32.36+0.6)	17.37 (=16.74+0.63)	1.51 (=0.83+0.69)	0.6357	0.3351	0.1961
Y	94.74	-9.92	95.44	95.96	77.63 (=77.03+0.6)	87.0 (=86.37+0.63)	11.85 (=11.16+0.69)	0.4399	0.493	0.982
L (G)	52.04	-72.02	38.68	81.76	8.24 (=7.64+0.6)	20.18 (=19.55+0.63)	6.62 (=5.93+0.69)	0.2351	0.5761	0.2278
C	60.57	-33.12	-51.09	60.29	19.9 (=19.3+0.6)	28.76 (=28.13+0.63)	83.57 (=82.88+0.69)	0.1505	0.2175	0.3246
V (B)	21.66	45.33	-53.67	67.26	6.35 (=5.75+0.6)	3.42 (=2.79+0.63)	22.71 (=22.02+0.69)	0.1954	0.1054	0.0385
M	48.94	83.01	-11.18	83.77	36.35 (=35.75+0.6)	17.55 (=16.92+0.63)	25.43 (=24.74+0.69)	0.4582	0.2212	0.1981
N	5.69	0.0	0.0	0.0	0.6 (=0.0+0.6)	0.63 (=0.0+0.63)	0.69 (=0.0+0.69)	0.3127	0.329	0.0071
W	95.41	0.0	0.0	0.0	84.2 (=83.6+0.6)	88.6 (=87.97+0.63)	96.46 (=95.78+0.69)	0.3127	0.329	1.0
NO	0.0	0.0	0.0	0.0	-1.84 (= -2.44+0.6)	-1.93 (= -2.56+0.63)	-2.11 (= -2.79+0.69)	0.3128	0.329	-0.0218
W1	100.1	0.0	0.0	0.01	95.28 (=94.68+0.6)	100.25 (=99.62+0.63)	109.17 (=108.49+0.69)	0.3127	0.329	1.1316

System OLS11a

(Display reflection
Y_r=1.26)

Color	L*=LAB* _{a1}	a*=LAB* _{a2}	b*=LAB* _{a3}	C* _{ab} =LAB* _{ar}	X _a =XYZ _{a1}	Y _a =XYZ _{a2}	Z _a =XYZ _{a3}	x _a	y _a	Y _a /88.59
O (R)	49.35	70.9	58.26	91.76	33.33 (=32.13+1.2)	17.88 (=16.62+1.26)	2.19 (=0.82+1.37)	0.6241	0.3349	0.2019
Y	94.74	-9.85	93.85	94.37	77.68 (=76.48+1.2)	87.01 (=85.75+1.26)	12.45 (=11.08+1.37)	0.4385	0.4912	0.9821
L (G)	52.59	-69.61	37.15	78.91	8.78 (=7.58+1.2)	20.67 (=19.41+1.26)	7.26 (=5.89+1.37)	0.2391	0.5631	0.2333
C	60.48	-32.48	-50.93	60.26	20.48 (=19.17+1.2)	29.9 (=27.93+1.26)	83.66 (=82.29+1.37)	0.1529	0.2191	0.3295
V (B)	23.77	37.18	-50.93	63.07	6.9 (=5.71+1.2)	4.03 (=2.77+1.26)	23.24 (=21.86+1.37)	0.202	0.118	0.0455
M	49.56	81.47	-10.93	82.2	36.69 (=35.49+1.2)	25.94 (=24.56+1.37)	25.94 (=24.56+1.37)	0.4548	0.2238	0.238
N	11.0	0.0	0.0	0.0	1.2 (=0.0+1.2)	1.26 (=0.0+1.26)	1.37 (=0.0+1.37)	0.3127	0.329	0.0142
W	95.41	0.0	0.0	0.0	84.2 (=83.0+1.2)	88.6 (=87.34+1.26)	96.46 (=95.09+1.37)	0.3127	0.329	1.0
NO	0.0	0.0	0.0	0.0	-1.22 (= -2.42+1.2)	-1.29 (= -2.55+1.26)	-1.4 (= -2.77+1.37)	0.3128	0.329	-0.0145
W1	100.06	0.0	0.0	0.01	95.2 (=94.0+1.2)	100.17 (=98.91+1.26)	109.08 (=107.71+1.37)	0.3127	0.329	1.1306

System OLS18a

(Display reflection
Y_r=2.52)

Color	L*=LAB* _{a1}	a*=LAB* _{a2}	b*=LAB* _{a3}	C* _{ab} =LAB* _{ar}	X _a =XYZ _{a1}	Y _a =XYZ _{a2}	Z _a =XYZ _{a3}	x _a	y _a	Y _a /88.59
O (R)	50.57	68.21	50.87	85.09	34.06 (=31.67+2.4)	18.9 (=16.38+2.52)	3.55 (=0.81+2.74)	0.6027	0.3345	0.2134
Y	94.75	-9.7	90.82	91.33	77.77 (=75.38+2.4)	87.04 (=84.52+2.52)	13.67 (=10.92+2.74)	0.4358	0.4877	0.9824
L (G)	53.66	-65.23	34.46	73.78	9.87 (=7.47+2.4)	21.65 (=19.13+2.52)	8.55 (=5.8+2.74)	0.2463	0.5404	0.2444
C	61.69	-31.25	-49.35	58.43	21.28 (=18.89+2.4)	30.05 (=27.53+2.52)	83.84 (=81.1+2.74)	0.1575	0.2223	0.3392
V (B)	27.44	32.06	-46.4	56.41	8.02 (=5.62+2.4)	5.25 (=2.73+2.52)	24.29 (=21.55+2.74)	0.2135	0.1398	0.0593
M	50.77	78.51	-10.44	79.2	37.38 (=34.98+2.4)	19.07 (=16.55+2.52)	26.95 (=24.21+2.74)	0.4481	0.2287	0.2153
N	18.01	0.0	0.0	0.0	2.52 (=0.0+2.4)	2.52 (=0.0+2.52)	2.74 (=0.0+2.74)	0.3127	0.329	0.0284
W	95.41	0.0	0.0	0.0	84.2 (=81.81+2.4)	88.6 (=86.08+2.52)	96.46 (=93.72+2.74)	0.3127	0.329	1.0
NO	0.0	0.0	0.0	0.01	0.0 (= -2.38+2.4)	0.0 (= -2.51+2.52)	0.0 (= -2.55+2.74)	0.3127	0.3105	0.0
W1	100.0	0.0	0.0	0.01	95.04 (=92.65+2.4)	100.0 (=97.48+2.52)	108.9 (=106.16+2.74)	0.3127	0.329	1.1288

LE480-7N, Colorimetric data of the Offset Reflective System ORS18 and calculated Offset Luminous Systems OLS00/06/11/18a, chroma adapted (a) for CIE standard illuminant D65

BAM-test chart no. LE48; colorimetric data for D65
ORS18 and Offset Luminous Systems OLS00a/06a/11a/18a

input: w* setgray
output: no change compared to input