

Colorimetric Report

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CCalc 2.3
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Date	Saturday, March 4, 2017
Tester	Oliver Jachmann
Display	Samsung C24FG70FQU
Sensor	X-Rite i1 Display Pro (Corr.: WLED, XR)
Testchart	In accordance with ISO 12646:2007 (1)
Target	sRGB
Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

White Point (CCT)	6620 Kelvin
White Point XYZ (normalized)	94.77 100.00 110.20
DeltaE to D50/ D65	20.45/ 0.94
Assumed Target Whitepoint (2)	6600 Kelvin
DeltaE to Assumed Target Whitepoint	0.39
Brightness	360.75 cd/m ²
Black Point	0.13 cd/m ²
Contrast (x:1)	2775:1
Gradation (Average)	2.07

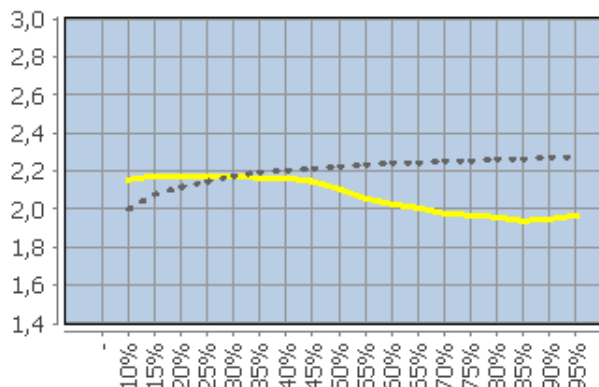
(2) Daylight

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	6112	1.85	3.22	2.15
	15	6344	2.43	3.09	2.17
	20	6488	2.25	2.45	2.17
	25	6548	2.57	2.60	2.17
	30	6603	2.24	2.24	2.17
	35	6642	1.98	2.04	2.16
	40	6617	1.54	1.75	2.16
	45	6590	1.27	1.86	2.14
	50	6598	0.99	2.29	2.10
	55	6665	1.00	2.77	2.06
	60	6729	1.10	3.10	2.03
	65	6764	1.44	3.28	2.01
	70	6784	1.34	3.16	1.98
	75	6788	1.41	2.93	1.97
	80	6777	1.31	2.59	1.96
	85	6777	1.26	2.19	1.94
	90	6741	1.00	1.55	1.95
	95	6709	0.79	0.98	1.97
	100 (3)	6621	-	-	-
	Average (4)	-	1.52	2.4	2.07
	Maximum (4)	-	2.57	3.28	-
	Range (4)	-	2.57	-	-

(3) Visual adaptation to display whitepoint is assumed

(4) Only luminance > 1% considered

Corresponding Gamma



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Target	sRGB
Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	0 0 0	0.28	0.00	0.31	0.42
	0 0 63	0.11	0.72	0.05	0.44
	0 0 127	3.57	0.88	0.92	1.27
	0 0 191	4.33	0.45	1.76	1.92
	0 0 255	5.92	5.07	3.66	4.12
	0 63 0	3.41	4.32	1.87	3.42
	0 63 63	3.11	0.85	1.27	2.22
	0 63 127	5.32	1.50	0.40	2.09
	0 63 191	6.71	1.32	0.77	1.77
	0 63 255	3.78	4.95	2.96	3.54
	0 127 0	12.76	3.64	0.32	3.51
	0 127 63	11.41	2.76	0.73	3.80
	0 127 127	7.26	0.46	1.06	3.29
	0 127 191	3.99	2.82	1.64	2.76
	0 127 255	3.39	8.98	3.17	5.37
	0 191 0	18.51	3.91	0.84	3.91
	0 191 63	16.58	4.20	1.19	4.12
	0 191 127	12.32	3.51	1.39	4.08
	0 191 191	9.52	0.40	1.76	3.82
	0 191 255	4.70	11.70	2.82	7.63
	0 255 0	21.61	0.40	0.95	3.52
	0 255 63	17.65	2.62	0.90	3.24
	0 255 127	11.58	5.26	0.78	3.29
	0 255 191	8.17	5.54	0.53	3.48
	0 255 255	10.26	1.85	0.02	3.33
	63 0 0	3.77	1.62	0.16	1.87
	63 0 63	3.78	2.29	0.17	1.92
	63 0 127	5.52	1.66	0.89	1.74
	63 0 191	5.85	1.15	1.75	2.08
	63 0 255	4.76	3.45	3.56	3.81
	63 63 0	0.52	1.72	0.97	1.49
	63 63 63	2.39	0.11	0.42	2.43
	63 63 127	5.75	1.78	0.29	2.32
	63 63 191	6.78	1.39	1.31	2.09
	63 63 255	3.94	3.82	3.26	3.62
	63 127 0	10.70	2.62	0.82	3.15
	63 127 63	8.42	2.47	1.28	3.41
	63 127 127	5.16	0.28	1.59	3.08
	63 127 191	3.26	2.27	2.15	2.83
	63 127 255	4.42	7.85	3.58	5.28
	63 191 0	17.10	3.11	1.24	3.78
	63 191 63	14.56	3.80	1.59	3.97
	63 191 127	10.58	3.39	1.81	4.02
	63 191 191	8.23	0.22	2.18	3.85
	63 191 255	3.01	11.43	3.20	7.68
	63 255 0	20.30	0.45	0.86	3.36
	63 255 63	15.50	1.94	0.79	2.86

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Target	sRGB
Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	63 255 127	9.38	4.77	0.66	2.89
	63 255 191	6.08	5.62	0.41	3.31
	63 255 255	8.64	1.70	0.15	2.96
	127 0 0	9.52	1.99	0.96	2.91
	127 0 63	8.98	1.71	1.06	3.09
	127 0 127	8.55	2.87	1.41	2.88
	127 0 191	8.22	2.99	2.00	2.79
	127 0 255	1.78	0.71	3.50	3.52
	127 63 0	9.21	4.80	0.22	3.93
	127 63 63	8.17	2.24	0.69	3.84
	127 63 127	8.72	2.20	1.13	3.38
	127 63 191	8.48	2.93	1.84	2.98
	127 63 255	2.02	0.39	3.49	3.51
	127 127 0	8.31	1.45	1.29	2.76
	127 127 63	4.19	0.79	1.75	2.43
	127 127 127	0.93	0.09	2.03	2.23
	127 127 191	3.18	0.62	2.52	2.82
	127 127 255	4.57	2.90	3.86	4.24
	127 191 0	13.36	0.21	1.55	3.21
	127 191 63	9.78	1.18	1.91	3.10
	127 191 127	5.22	2.03	2.12	3.05
	127 191 191	3.80	0.51	2.47	3.17
	127 191 255	1.42	7.89	3.46	6.13
	127 255 0	17.00	3.52	0.62	3.22
	127 255 63	11.48	1.15	0.53	2.20
	127 255 127	4.60	2.01	0.40	1.43
	127 255 191	1.14	4.25	0.15	2.38
	127 255 255	4.29	1.12	0.41	1.81
	191 0 0	14.90	0.03	0.78	3.21
	191 0 63	11.98	0.83	0.91	3.06
	191 0 127	11.86	0.60	1.15	3.02
	191 0 191	11.48	2.40	1.65	2.94
	191 0 255	2.55	3.47	2.90	3.18
	191 63 0	14.88	1.69	0.54	3.54
	191 63 63	10.88	2.90	0.89	3.48
	191 63 127	11.06	0.58	1.21	3.33
	191 63 191	10.94	1.92	1.78	3.14
	191 63 255	1.29	3.12	3.12	3.35
	191 127 0	11.42	1.56	1.40	3.28
	191 127 63	6.43	1.76	1.81	2.91
	191 127 127	4.37	1.63	2.06	3.09
	191 127 191	5.55	0.63	2.50	3.17
	191 127 255	2.56	1.22	3.68	3.77
	191 191 0	12.73	1.03	1.65	3.30
	191 191 63	8.02	0.33	2.00	2.89
	191 191 127	2.02	0.25	2.19	2.34
	191 191 191	1.48	0.23	2.52	2.93

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Testchart	In accordance with ISO 12646:2007 (1)
Target	sRGB
Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	191 191 255	4.22	2.48	3.43	4.15
	191 255 0	15.73	5.66	0.49	3.66
	191 255 63	9.45	3.83	0.39	2.49
	191 255 127	1.41	1.17	0.26	0.72
	191 255 191	3.37	1.64	0.02	1.58
	191 255 255	0.46	0.41	0.49	0.62
	255 0 0	19.90	3.95	0.61	3.86
	255 0 63	12.39	3.27	0.55	2.85
	255 0 127	12.58	4.20	0.33	3.22
	255 0 191	13.83	2.01	0.15	2.75
	255 0 255	6.73	2.31	1.12	1.78
	255 63 0	18.01	2.49	0.46	3.51
	255 63 63	10.37	3.51	0.23	2.68
	255 63 127	10.34	4.66	0.04	3.22
	255 63 191	11.95	2.65	0.55	2.81
	255 63 255	4.36	1.94	1.61	1.93
	255 127 0	13.90	2.60	0.67	3.15
	255 127 63	6.63	0.06	0.98	1.86
	255 127 127	3.73	2.77	1.21	2.24
	255 127 191	5.63	2.87	1.63	2.75
	255 127 255	0.93	1.01	2.60	2.65
	255 191 0	14.18	2.49	1.15	3.38
	255 191 63	7.72	2.28	1.45	2.60
	255 191 127	0.98	0.93	1.63	1.75
	255 191 191	0.52	2.42	1.94	2.63
	255 191 255	4.27	0.12	2.71	3.11
	255 255 0	17.47	3.51	0.93	3.68
	255 255 63	9.75	2.52	0.86	2.43
	255 255 127	0.90	1.51	0.75	1.11
	255 255 191	4.66	1.26	0.51	2.15
	255 255 255 (1)	-	-	-	-
	Average (2)	7.78	0.00	1.40	3.04
	Maximum (2)	21.61	11.70	3.86	7.68

(1) Visual adaptation to display whitepoint is assumed; CIELAB reference values are adapted (Bradford transformation) to display whitepoint
(2) Without Black

Color Space	Gamut Volume CIELAB D50
sRGB	99%