

Colorimetric Report

Page (1/4)



CCalc 2.1
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Date	Tuesday, August 4, 2015
Display	Samsung U32E850R
Sensor	X-Rite i1 Display Pro (EDR: WLED)
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)	6426 Kelvin
White Point XYZ (normalized)	95.06 100.00 107.71
DeltaE to D50/ D65	18.72/ 0.72
Assumed Target Whitepoint (2)	6400 Kelvin
DeltaE to Assumed Target Whitepoint	0.30
Brightness	346.23 cd/m ²
Black Point	0.45 cd/m ²
Contrast (x:1)	769:1
Gradation (Average)	2.14

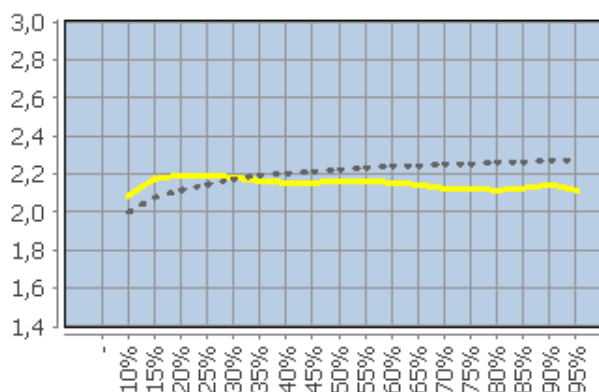
(2) Daylight

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	6895	0.80	1.67	2.08
	15	6503	0.16	1.85	2.17
	20	6485	0.29	1.42	2.19
	25	6563	0.83	1.09	2.19
	30	6495	0.59	0.60	2.18
	35	6468	0.71	0.85	2.16
	40	6414	0.96	1.31	2.15
	45	6436	0.81	1.32	2.15
	50	6445	0.66	1.21	2.16
	55	6510	0.85	1.38	2.16
	60	6613	1.60	1.98	2.15
	65	6604	1.69	2.12	2.14
	70	6582	1.60	2.10	2.12
	75	6593	1.64	2.06	2.12
	80	6547	1.30	1.71	2.11
	85	6556	1.11	1.38	2.12
	90	6513	0.86	0.98	2.14
	95	6503	0.93	0.98	2.11
	100 (3)	6427	-	-	-
	Average (4)	-	0.98	1.43	2.14
	Maximum (4)	-	1.69	2.12	-
	Range (4)	-	1.69	-	-

(3) Visual adaptation to display whitepoint is assumed

(4) Only luminance > 1% considered

Corresponding Gamma



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Page (2/4)



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	RGB	Delta C	Delta H	Delta L	Delta E94
	0 0 0	0.81	0.00	1.18	1.43
	0 0 63	0.91	0.34	0.35	0.51
	0 0 127	6.33	0.60	0.69	1.57
	0 0 191	10.92	1.47	1.46	2.43
	0 0 255	12.82	2.52	2.90	3.52
	0 63 0	1.31	2.61	0.97	1.91
	0 63 63	2.40	0.37	1.21	1.81
	0 63 127	6.15	1.35	1.45	2.70
	0 63 191	10.27	1.76	1.85	3.02
	0 63 255	11.33	2.05	2.89	3.52
	0 127 0	10.01	2.14	0.11	2.59
	0 127 63	9.13	1.57	0.02	2.86
	0 127 127	6.05	0.62	0.18	2.62
	0 127 191	5.59	1.42	0.50	2.18
	0 127 255	5.01	2.12	1.28	2.00
	0 191 0	14.88	2.28	0.26	2.95
	0 191 63	13.77	2.66	0.19	3.13
	0 191 127	9.94	3.38	0.09	3.24
	0 191 191	8.46	1.02	0.12	3.07
	0 191 255	5.95	4.48	0.65	3.35
	0 255 0	16.78	2.93	1.42	3.17
	0 255 63	15.50	3.62	1.46	3.27
	0 255 127	11.06	5.99	1.52	3.69
	0 255 191	8.99	6.03	1.64	4.10
	0 255 255	9.60	1.61	1.97	3.67
	63 0 0	1.66	2.07	1.55	2.19
	63 0 63	2.31	0.46	0.74	1.13
	63 0 127	4.24	0.77	0.13	1.05
	63 0 191	9.32	0.36	1.00	1.93
	63 0 255	11.23	1.60	2.43	2.97
	63 63 0	0.83	0.66	0.58	0.79
	63 63 63	0.74	0.13	0.78	1.08
	63 63 127	5.57	0.04	1.08	2.24
	63 63 191	9.43	0.75	1.48	2.58
	63 63 255	10.41	1.41	2.53	3.11
	63 127 0	9.23	1.98	0.23	2.57
	63 127 63	7.95	1.79	0.14	2.85
	63 127 127	5.42	0.41	0.04	2.78
	63 127 191	5.13	1.97	0.36	2.25
	63 127 255	4.65	2.22	1.14	1.90
	63 191 0	14.41	2.29	0.32	2.98
	63 191 63	12.98	2.60	0.27	3.09
	63 191 127	9.25	3.51	0.16	3.31
	63 191 191	7.98	0.95	0.05	3.14
	63 191 255	5.38	4.64	0.56	3.38
	63 255 0	16.39	2.78	1.37	3.12
	63 255 63	14.81	3.44	1.42	3.19

Colorimetric Report

Page (3/4)



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	RGB	Delta C	Delta H	Delta L	Delta E94
	63 255 127	10.31	5.84	1.47	3.60
	63 255 191	8.39	6.01	1.60	4.10
	63 255 255	9.17	1.56	1.92	3.64
	127 0 0	4.65	5.76	3.29	4.63
	127 0 63	0.32	6.49	2.95	4.72
	127 0 127	0.69	1.38	2.26	2.36
	127 0 191	4.74	0.50	1.28	1.57
	127 0 255	6.67	1.44	0.25	1.15
	127 63 0	8.34	0.80	1.57	3.02
	127 63 63	4.64	2.92	1.40	3.13
	127 63 127	3.52	1.14	1.03	1.70
	127 63 191	6.55	0.97	0.43	1.60
	127 63 255	7.35	1.74	0.71	1.58
	127 127 0	9.38	0.93	1.30	2.95
	127 127 63	6.35	0.28	1.21	2.72
	127 127 127	0.71	0.15	1.04	1.27
	127 127 191	3.15	0.52	0.68	1.41
	127 127 255	3.31	0.50	0.10	0.82
	127 191 0	12.50	0.51	0.98	2.82
	127 191 63	10.23	0.06	0.93	2.65
	127 191 127	5.22	1.75	0.82	2.25
	127 191 191	4.27	0.65	0.60	2.31
	127 191 255	2.47	3.17	0.09	2.22
	127 255 0	14.01	0.16	0.87	2.52
	127 255 63	12.18	0.67	0.91	2.41
	127 255 127	6.86	3.41	0.97	2.39
	127 255 191	4.66	4.67	1.10	3.13
	127 255 255	5.92	1.48	1.42	2.80
	191 0 0	9.94	10.98	3.79	6.50
	191 0 63	3.33	9.04	3.60	5.76
	191 0 127	0.07	3.29	3.18	3.55
	191 0 191	2.05	0.87	2.51	2.57
	191 0 255	3.30	1.48	1.29	1.49
	191 63 0	12.85	7.59	2.71	5.36
	191 63 63	6.27	6.23	2.57	4.53
	191 63 127	2.23	2.43	2.30	2.72
	191 63 191	3.88	0.78	1.78	2.01
	191 63 255	4.45	1.66	0.78	1.27
	191 127 0	13.28	2.85	2.23	4.25
	191 127 63	8.76	3.18	2.14	3.97
	191 127 127	1.66	2.11	1.98	2.60
	191 127 191	1.77	0.02	1.64	1.75
	191 127 255	1.93	0.51	0.92	1.05
	191 191 0	14.01	0.18	1.66	3.52
	191 191 63	10.95	0.29	1.60	3.26
	191 191 127	4.14	1.19	1.50	2.36
	191 191 191	1.64	0.29	1.29	2.11

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Page (4/4)



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(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	191 191 255	0.09	1.66	0.79	1.35
	191 255 0	13.78	1.99	0.28	2.63
	191 255 63	11.34	1.25	0.32	2.31
	191 255 127	4.87	1.13	0.38	1.38
	191 255 191	1.44	2.82	0.50	1.90
	191 255 255	3.00	1.03	0.83	1.93
	255 0 0	15.94	16.77	4.54	8.43
	255 0 63	6.72	12.02	4.41	6.85
	255 0 127	0.83	6.08	4.14	4.94
	255 0 191	0.62	2.57	3.63	3.79
	255 0 255	0.94	2.70	2.69	2.87
	255 63 0	16.97	13.37	3.80	7.33
	255 63 63	8.71	9.90	3.69	6.01
	255 63 127	2.57	5.03	3.46	4.23
	255 63 191	2.06	2.19	3.06	3.23
	255 63 255	2.12	2.65	2.21	2.46
	255 127 0	16.94	7.99	3.27	5.92
	255 127 63	11.22	7.16	3.20	5.41
	255 127 127	3.52	4.39	3.04	4.03
	255 127 191	1.44	1.85	2.73	2.94
	255 127 255	0.81	2.14	2.09	2.32
	255 191 0	17.28	2.60	2.55	4.58
	255 191 63	13.50	2.86	2.50	4.32
	255 191 127	5.63	2.53	2.39	3.41
	255 191 191	0.74	1.62	2.19	2.52
	255 191 255	0.90	1.23	1.72	1.91
	255 255 0	16.00	2.45	0.56	3.20
	255 255 63	13.26	1.96	0.52	2.88
	255 255 127	5.51	0.87	0.46	1.58
	255 255 191	0.49	0.21	0.33	0.41
	255 255 255 (1)	-	-	-	-
	Average (2)	6.98	2.62	1.48	2.92
	Maximum (2)	17.28	16.77	4.54	8.43

(1) Visual adaptation to display whitepoint is assumed; CIELAB reference values are adapted (Bradford transformation) to display whitepoint

(2) Without Black

RGB values compressed to video level if necessary

Color Space	Gamut Volume CIELAB D50
sRGB	98%