

Colorimetric Report

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CCalc 2.5
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Date	Wednesday, July 7, 2021
Tester	Manuel Findeis
Display	Acer B248Y
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)	6651 Kelvin
White Point XYZ (normalized)	93.33 100.00 108.13
DeltaE to D50/ D65	19.61/ 3.06
Assumed Target Whitepoint (2)	6700 Kelvin
DeltaE to Assumed Target Whitepoint	3.62
Brightness	115.31 cd/m ²
Black Point	0.11 cd/m ²
Contrast (x:1)	1048:1
Gradation (Average)	2.09

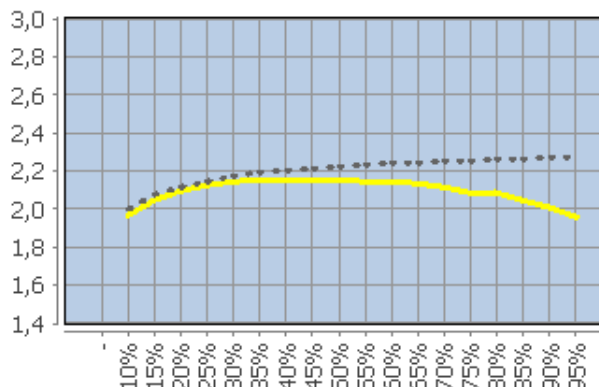
(2) Daylight

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	6949	0.53	0.82	1.97
	15	6921	0.67	0.79	2.05
	20	6830	0.48	0.67	2.09
	25	6716	0.24	0.57	2.12
	30	6687	0.12	0.68	2.14
	35	6716	0.25	0.80	2.15
	40	6765	0.53	1.08	2.15
	45	6695	0.30	1.10	2.15
	50	6673	0.36	1.24	2.15
	55	6655	0.43	1.38	2.14
	60	6647	0.51	1.50	2.14
	65	6648	0.18	1.43	2.13
	70	6667	0.42	1.52	2.11
	75	6673	0.77	1.79	2.08
	80	6672	0.48	1.39	2.08
	85	6654	0.24	1.23	2.05
	90	6668	0.29	0.99	2.01
	95	6662	0.19	0.63	1.96
	100 (3)	6651	-	-	-
	Average (4)	-	0.39	1.09	2.09
	Maximum (4)	-	0.77	1.79	-
	Range (4)	-	0.8	-	-

(3) Visual adaptation to display whitepoint is assumed

(4) Only luminance > 1% considered

Corresponding Gamma



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(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	0 0 0	0.70	0.00	0.89	1.13
	0 0 63	6.67	3.02	2.85	4.07
	0 0 127	16.16	9.69	5.63	7.97
	0 0 191	21.02	12.73	7.44	9.60
	0 0 255	26.29	14.56	8.37	10.37
	0 63 0	4.18	0.11	0.34	1.46
	0 63 63	0.69	0.11	0.54	0.67
	0 63 127	3.64	4.42	2.61	3.96
	0 63 191	10.90	8.78	5.07	6.89
	0 63 255	19.07	11.99	6.75	8.68
	0 127 0	3.68	0.38	0.35	0.96
	0 127 63	2.42	0.23	0.09	0.74
	0 127 127	0.16	0.15	1.21	1.22
	0 127 191	1.73	4.21	2.86	3.90
	0 127 255	9.30	8.71	4.51	6.48
	0 191 0	4.02	1.05	0.31	0.92
	0 191 63	3.93	0.95	0.09	0.93
	0 191 127	2.58	0.23	0.59	0.92
	0 191 191	0.24	0.36	1.64	1.66
	0 191 255	2.10	5.71	2.88	4.50
	0 255 0	6.61	1.55	1.71	2.08
	0 255 63	6.84	0.92	1.55	1.95
	0 255 127	6.51	0.43	1.12	1.72
	0 255 191	4.98	1.95	0.35	1.62
	0 255 255	1.79	0.04	0.48	0.73
	63 0 0	1.88	0.41	0.44	0.92
	63 0 63	5.95	0.90	1.81	2.78
	63 0 127	12.56	5.89	4.30	5.89
	63 0 191	18.58	10.12	6.62	8.38
	63 0 255	24.80	12.65	7.87	9.65
	63 63 0	2.86	0.95	0.29	1.30
	63 63 63	0.25	0.08	0.49	0.56
	63 63 127	4.16	3.35	2.42	3.51
	63 63 191	10.61	7.38	4.74	6.29
	63 63 255	18.53	10.69	6.47	8.20
	63 127 0	3.40	1.08	0.27	1.06
	63 127 63	2.15	0.71	0.15	0.84
	63 127 127	0.06	0.15	1.22	1.23
	63 127 191	2.29	4.09	2.81	3.90
	63 127 255	9.44	7.86	4.43	6.20
	63 191 0	3.77	1.37	0.22	0.96
	63 191 63	3.47	1.00	0.02	0.89
	63 191 127	2.55	0.10	0.61	0.96
	63 191 191	0.14	0.41	1.69	1.71
	63 191 255	2.58	5.50	2.89	4.49
	63 255 0	6.58	1.90	1.67	2.09
	63 255 63	6.89	1.26	1.54	1.99

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Target	sRGB
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Rendering Intent	-

(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	63 255 127	6.82	0.07	1.10	1.77
	63 255 191	5.01	1.74	0.35	1.62
	63 255 255	1.97	0.01	0.51	0.81
	127 0 0	1.00	0.66	0.07	0.44
	127 0 63	2.22	0.77	0.84	1.16
	127 0 127	7.72	1.42	2.66	3.33
	127 0 191	14.16	5.56	4.91	6.01
	127 0 255	20.91	8.39	6.52	7.81
	127 63 0	0.85	1.67	0.15	0.99
	127 63 63	0.18	0.03	0.45	0.45
	127 63 127	4.03	1.01	1.86	2.37
	127 63 191	9.69	4.49	3.93	4.95
	127 63 255	16.96	7.31	5.63	6.91
	127 127 0	1.72	1.60	0.11	0.99
	127 127 63	1.11	1.36	0.22	1.01
	127 127 127	0.44	0.13	1.17	1.26
	127 127 191	3.33	2.78	2.65	3.44
	127 127 255	10.14	5.82	4.16	5.55
	127 191 0	2.98	2.18	0.13	1.16
	127 191 63	2.76	1.46	0.12	0.99
	127 191 127	2.27	0.43	0.66	1.06
	127 191 191	0.14	0.26	1.70	1.71
	127 191 255	3.69	4.73	2.82	4.35
	127 255 0	6.37	2.92	1.63	2.24
	127 255 63	6.74	2.26	1.47	2.11
	127 255 127	6.59	0.61	1.07	1.83
	127 255 191	5.29	1.27	0.32	1.73
	127 255 255	2.04	0.10	0.49	0.91
	191 0 0	0.44	0.49	0.06	0.24
	191 0 63	0.65	0.83	0.58	0.73
	191 0 127	4.57	0.34	1.72	2.04
	191 0 191	10.04	1.89	3.53	4.11
	191 0 255	17.04	3.98	5.11	5.94
	191 63 0	0.63	0.48	0.02	0.27
	191 63 63	0.07	0.13	0.39	0.40
	191 63 127	3.12	0.24	1.45	1.70
	191 63 191	7.82	1.59	3.07	3.60
	191 63 255	14.66	3.51	4.62	5.45
	191 127 0	0.03	1.58	0.02	0.79
	191 127 63	0.07	1.18	0.32	0.75
	191 127 127	0.55	0.13	1.08	1.11
	191 127 191	4.21	0.84	2.38	2.83
	191 127 255	10.16	2.64	3.66	4.54
	191 191 0	1.43	2.55	0.03	1.22
	191 191 63	1.47	1.92	0.20	1.07
	191 191 127	1.29	1.05	0.72	1.13
	191 191 191	0.74	0.17	1.67	1.84

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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	5.56	2.49	2.70	3.84
	191 255 0	5.23	4.25	1.53	2.47
	191 255 63	5.83	3.71	1.41	2.40
	191 255 127	6.05	2.37	1.03	2.16
	191 255 191	5.33	0.29	0.34	1.94
	191 255 255	1.86	0.01	0.44	1.06
	255 0 0	0.46	1.32	0.44	0.68
	255 0 63	1.23	0.20	0.11	0.28
	255 0 127	3.52	0.14	0.74	1.05
	255 0 191	7.26	0.92	2.10	2.54
	255 0 255	13.52	1.82	3.37	4.07
	255 63 0	0.30	0.67	0.43	0.51
	255 63 63	1.10	0.02	0.16	0.28
	255 63 127	2.97	0.22	0.66	0.95
	255 63 191	6.40	0.87	1.93	2.38
	255 63 255	12.29	1.61	3.15	3.86
	255 127 0	0.00	0.03	0.25	0.25
	255 127 63	0.73	0.19	0.03	0.20
	255 127 127	2.02	0.08	0.63	0.86
	255 127 191	4.82	0.38	1.66	2.15
	255 127 255	10.11	1.24	2.77	3.61
	255 191 0	0.64	1.13	0.25	0.58
	255 191 63	1.15	0.96	0.07	0.54
	255 191 127	1.49	0.29	0.37	0.65
	255 191 191	2.36	0.32	1.15	1.62
	255 191 255	6.66	0.67	2.04	3.16
	255 255 0	3.73	4.00	1.72	2.47
	255 255 63	4.38	3.62	1.62	2.43
	255 255 127	4.81	2.74	1.27	2.28
	255 255 191	4.26	1.37	0.64	2.07
	255 255 255 (1)	-	-	-	-
	Average (2)	5.34	0.00	1.83	2.60
	Maximum (2)	26.29	14.56	8.37	10.37

(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	89%

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Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

Property	Device adjustments
Backlight brightness	
Brightness	
Contrast	
RGB Gain	
Gradation	
Other	