

Colorimetric Report

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Date	Wednesday, July 12, 2023
Tester	Damian Köb
Display	Acer Predator X27U
Sensor	X-Rite i1 Display Pro (Corr.: OLED, XR)
Testchart	In accordance with ISO 12646:2007 (1)
Target	DCI-P3 RGB
Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

White Point (CCT)	6048 Kelvin
White Point XYZ (normalized)	90.09 100.00 91.98
DeltaE to D50/ D65	13.40/ 14.07
Assumed Target Whitepoint (2)	6000 Kelvin
DeltaE to Assumed Target Whitepoint	10.96
Brightness (3)	315.20 cd/m²
Black Point (3)	0.00 cd/m²
Contrast (x:1)	-
Gradation (Average)	2.67

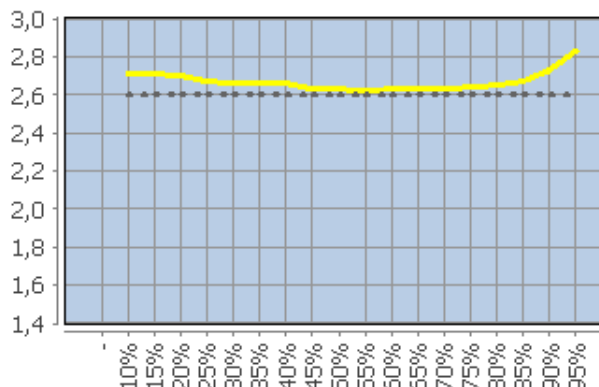
(2) Daylight (3) Measured separately

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	6468	0.27	0.60	2.71
	15	6021	1.44	1.88	2.71
	20	6189	0.36	1.50	2.70
	25	5952	0.46	1.17	2.67
	30	5930	0.94	1.36	2.66
	35	5880	1.07	1.40	2.66
	40	5841	1.35	1.62	2.66
	45	5882	1.61	1.69	2.63
	50	5928	1.12	1.17	2.63
	55	6006	0.30	0.40	2.62
	60	6002	0.33	0.48	2.63
	65	5996	0.42	0.51	2.63
	70	6010	0.31	0.43	2.63
	75	6024	0.23	0.39	2.64
	80	6032	0.22	0.43	2.65
	85	6045	0.14	0.40	2.67
	90	6064	0.46	0.66	2.73
	95	6059	0.14	0.47	2.83
	100 (4)	6049	-	-	-
	Average (5)	-	0.59	0.88	2.67
	Maximum (5)	-	1.61	1.69	-
	Range (5)	-	2.06	-	-

(4) Visual adaptation to display whitepoint is assumed

(5) 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	0.00	0.00	0.00	0.00
	0 0 63	1.30	0.04	0.14	0.56
	0 0 127	1.13	0.52	0.15	0.39
	0 0 191	0.59	0.62	0.19	0.32
	0 0 255	1.14	0.80	0.67	0.73
	0 63 0	4.94	2.78	0.59	2.51
	0 63 63	4.13	0.69	0.63	2.33
	0 63 127	0.52	1.36	0.54	0.98
	0 63 191	0.71	0.65	0.57	0.65
	0 63 255	0.44	0.07	0.85	0.86
	0 127 0	8.46	2.34	0.18	2.02
	0 127 63	5.82	3.52	0.11	2.28
	0 127 127	4.64	0.74	0.08	1.82
	0 127 191	0.64	2.16	0.04	1.27
	0 127 255	0.93	0.76	0.32	0.50
	0 191 0	12.78	0.76	0.12	1.98
	0 191 63	9.13	3.49	0.29	2.05
	0 191 127	7.35	2.39	0.25	1.97
	0 191 191	5.53	1.51	0.12	1.86
	0 191 255	2.13	2.66	0.05	1.59
	0 255 0	15.76	0.74	0.30	1.98
	0 255 63	12.84	1.71	0.30	1.78
	0 255 127	10.36	2.61	0.55	1.93
	0 255 191	9.04	0.44	0.46	1.84
	0 255 255	6.41	2.09	0.36	1.94
	63 0 0	3.92	0.87	1.19	2.19
	63 0 63	2.85	2.07	0.98	1.96
	63 0 127	0.61	1.50	0.71	1.02
	63 0 191	0.52	1.28	0.52	0.72
	63 0 255	1.04	1.03	0.80	0.88
	63 63 0	1.14	0.88	0.93	1.22
	63 63 63	0.55	0.07	1.38	1.49
	63 63 127	1.03	0.32	0.87	0.94
	63 63 191	0.41	0.42	0.47	0.51
	63 63 255	0.62	0.56	0.85	0.87
	63 127 0	6.26	0.59	0.05	1.40
	63 127 63	2.72	3.09	0.06	1.81
	63 127 127	2.67	0.11	0.24	1.19
	63 127 191	0.71	0.93	0.09	0.60
	63 127 255	1.39	0.01	0.08	0.30
	63 191 0	11.34	0.15	0.14	1.79
	63 191 63	7.62	2.97	0.23	1.77
	63 191 127	6.06	2.39	0.31	1.82
	63 191 191	4.68	0.92	0.32	1.60
	63 191 255	1.88	2.07	0.04	1.28
	63 255 0	15.19	1.19	0.22	1.95
	63 255 63	11.96	1.42	0.41	1.69

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(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	63 255 127	9.80	2.52	0.58	1.88
	63 255 191	8.66	0.62	0.64	1.87
	63 255 255	6.11	1.90	0.64	1.95
	127 0 0	4.71	0.85	1.97	2.35
	127 0 63	3.64	1.30	1.86	2.26
	127 0 127	1.27	3.15	1.50	2.18
	127 0 191	0.55	2.71	1.29	1.69
	127 0 255	0.87	2.10	1.31	1.50
	127 63 0	4.56	0.13	1.67	2.10
	127 63 63	2.08	0.73	1.65	1.87
	127 63 127	0.61	2.35	1.22	1.80
	127 63 191	0.37	2.16	1.10	1.45
	127 63 255	0.45	1.62	1.27	1.39
	127 127 0	5.99	2.29	0.44	1.89
	127 127 63	0.04	1.27	0.27	0.81
	127 127 127	1.06	0.02	0.22	1.08
	127 127 191	0.27	0.16	0.20	0.24
	127 127 255	0.37	0.41	0.43	0.47
	127 191 0	9.10	2.14	0.19	1.80
	127 191 63	4.74	0.32	0.05	0.94
	127 191 127	2.39	2.69	0.37	1.65
	127 191 191	2.70	0.67	0.37	1.29
	127 191 255	1.12	1.19	0.30	0.85
	127 255 0	13.21	2.30	0.17	1.91
	127 255 63	10.02	0.06	0.27	1.44
	127 255 127	6.72	2.94	0.64	1.74
	127 255 191	6.50	0.92	0.86	1.77
	127 255 255	4.84	1.90	0.78	1.95
	191 0 0	5.70	0.71	2.34	2.58
	191 0 63	4.90	1.15	2.24	2.52
	191 0 127	3.21	3.75	2.19	2.88
	191 0 191	1.15	4.09	1.91	2.53
	191 0 255	0.94	3.47	1.88	2.23
	191 63 0	6.19	0.68	2.28	2.58
	191 63 63	3.62	0.64	2.25	2.41
	191 63 127	3.01	3.61	1.97	2.74
	191 63 191	0.97	4.14	1.89	2.59
	191 63 255	0.45	3.20	1.74	2.08
	191 127 0	8.74	1.75	1.16	2.25
	191 127 63	3.43	3.08	1.05	2.08
	191 127 127	2.94	1.36	0.85	1.64
	191 127 191	0.92	2.44	0.75	1.58
	191 127 255	0.72	2.25	0.91	1.34
	191 191 0	9.55	3.90	0.65	2.43
	191 191 63	3.77	2.61	0.40	1.47
	191 191 127	0.09	1.19	0.03	0.73
	191 191 191	0.15	0.04	0.08	0.18

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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	0.48	0.07	0.07	0.19
	191 255 0	12.00	3.80	0.11	2.15
	191 255 63	7.88	2.05	0.04	1.42
	191 255 127	3.65	0.55	0.55	0.94
	191 255 191	2.68	1.59	1.02	1.55
	191 255 255	2.57	1.34	1.11	1.81
	255 0 0	8.45	1.65	3.10	3.37
	255 0 63	6.91	1.77	3.04	3.31
	255 0 127	5.52	3.78	3.00	3.52
	255 0 191	2.95	5.77	2.78	3.61
	255 0 255	1.49	5.32	2.65	3.23
	255 63 0	8.83	1.78	2.96	3.29
	255 63 63	6.09	0.43	2.98	3.15
	255 63 127	5.28	3.66	2.77	3.32
	255 63 191	2.79	5.74	2.61	3.52
	255 63 255	1.39	5.25	2.57	3.18
	255 127 0	12.15	0.37	2.03	2.79
	255 127 63	6.76	2.16	1.93	2.45
	255 127 127	5.51	0.51	1.56	2.04
	255 127 191	3.87	4.30	1.61	2.76
	255 127 255	2.20	4.43	1.52	2.41
	255 191 0	12.50	3.52	1.18	2.72
	255 191 63	7.10	4.06	1.03	2.37
	255 191 127	3.71	3.77	0.62	2.32
	255 191 191	3.60	0.40	0.33	1.46
	255 191 255	1.00	2.72	0.38	1.60
	255 255 0	12.63	5.12	0.50	2.61
	255 255 63	8.49	4.15	0.43	2.09
	255 255 127	2.83	2.62	0.14	1.33
	255 255 191	0.75	1.69	0.87	1.38
	255 255 255 (1)	-	-	-	-
	Average (2)	4.41	1.86	0.91	1.79
	Maximum (2)	15.76	5.77	3.10	3.61

(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
DCI-P3 RGB	86%

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Rendering Intent	-

(1) Five equally spaced code values for each channel

Property	Device adjustments
Backlight brightness	70
Brightness	313.9
Contrast	
RGB Gain	
Gradation	
Other	