

Colorimetric Report

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CCalc 2.5
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Date	Friday, March 24, 2023
Tester	Denis Freund
Display	LG 27GR95QE
Sensor	X-Rite i1 Pro
Testchart	In accordance with ISO 12646:2007 (1)
Target	ECI-RGB v2
Display Profile	Considered
Rendering Intent	Relative colorimetric

(1) Five equally spaced code values for each channel

White Point (CCT)	6442 Kelvin
White Point XYZ (normalized)	93.54 100.00 105.22
DeltaE to D50/ D65	17.61/ 3.49
Assumed Target Whitepoint (2)	6400 Kelvin
DeltaE to Assumed Target Whitepoint	2.94
Brightness (3)	137.70 cd/m²
Black Point (3)	-
Contrast (x:1)	-
Gradation (Average)	2.38

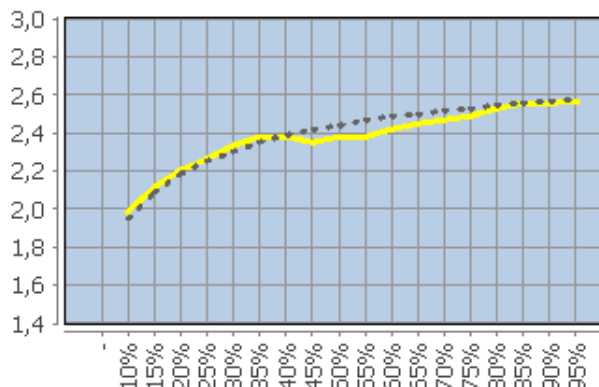
(2) Daylight (3) Measured separately

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	5990	0.44	0.74	1.99
	15	6068	1.00	1.10	2.11
	20	5891	1.04	1.13	2.20
	25	5897	1.06	1.06	2.26
	30	5872	1.23	1.28	2.33
	35	5916	1.16	1.27	2.38
	40	6046	0.84	0.84	2.38
	45	6070	0.84	1.34	2.35
	50	6092	0.72	1.17	2.38
	55	6065	0.73	1.45	2.38
	60	6112	0.88	1.19	2.42
	65	6138	0.84	1.05	2.45
	70	6150	0.53	0.73	2.47
	75	6197	0.64	0.74	2.49
	80	6207	0.93	0.94	2.53
	85	6212	0.38	0.38	2.56
	90	6168	0.66	0.66	2.56
	95	6175	0.14	0.14	2.57
	100 (4)	6187	-	-	-
	Average (5)	-	0.78	0.96	2.38
	Maximum (5)	-	1.23	1.45	-
	Range (5)	-	1.7	-	-

(4) Visual adaptation to display whitepoint is assumed

(5) Only luminance > 1% considered

Corresponding Gamma



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	RGB	Delta C	Delta H	Delta L	Delta E94
	0 0 0	0.20	0.00	0.32	0.38
	0 0 63	1.91	3.13	0.55	2.21
	0 0 127	2.44	4.48	0.29	2.33
	0 0 191	3.33	6.19	0.06	2.66
	0 0 255	3.35	7.57	0.31	2.79
	0 63 0	11.86	9.84	0.60	6.42
	0 63 63	12.14	3.20	0.94	5.28
	0 63 127	0.35	10.64	0.80	6.48
	0 63 191	2.15	9.07	0.48	4.35
	0 63 255	3.36	9.75	0.24	3.84
	0 127 0	16.13	16.80	0.77	7.83
	0 127 63	19.10	9.53	1.00	6.38
	0 127 127	17.99	3.50	0.82	5.52
	0 127 191	7.47	13.40	1.12	7.58
	0 127 255	0.92	13.89	0.62	6.30
	0 191 0	21.44	21.81	0.75	8.26
	0 191 63	23.52	17.89	0.69	7.66
	0 191 127	25.30	9.34	0.76	6.21
	0 191 191	23.51	4.01	0.79	5.62
	0 191 255	14.53	15.44	0.56	8.02
	0 255 0	27.49	25.90	0.37	8.33
	0 255 63	28.66	23.55	0.50	8.06
	0 255 127	31.07	17.28	0.36	7.19
	0 255 191	32.39	6.86	0.29	5.81
	0 255 255	29.30	5.71	0.44	5.87
	63 0 0	0.69	0.30	0.07	0.32
	63 0 63	0.32	2.01	0.53	1.38
	63 0 127	1.94	0.86	0.00	0.67
	63 0 191	4.33	0.17	1.52	1.75
	63 0 255	5.89	2.58	2.49	2.83
	63 63 0	0.23	0.62	0.46	0.62
	63 63 63	1.07	0.13	0.22	1.10
	63 63 127	3.63	1.57	1.10	2.03
	63 63 191	5.18	2.23	1.64	2.32
	63 63 255	5.46	3.19	2.09	2.62
	63 127 0	1.03	0.83	0.03	0.47
	63 127 63	0.60	0.24	0.26	0.34
	63 127 127	0.98	2.21	0.32	1.51
	63 127 191	1.26	3.37	0.54	2.06
	63 127 255	2.17	5.86	0.88	2.88
	63 191 0	8.36	10.58	0.35	4.19
	63 191 63	9.91	8.69	0.41	3.92
	63 191 127	11.96	4.62	0.28	3.32
	63 191 191	12.38	3.01	0.23	3.47
	63 191 255	7.83	10.54	0.39	5.57
	63 255 0	18.49	18.91	0.12	6.25
	63 255 63	19.73	17.19	0.16	6.07

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	RGB	Delta C	Delta H	Delta L	Delta E94
	63 255 127	22.04	12.64	0.30	5.47
	63 255 191	23.95	4.77	0.33	4.53
	63 255 255	22.22	5.05	0.17	4.84
	127 0 0	1.18	1.41	0.63	0.96
	127 0 63	0.29	0.79	0.46	0.64
	127 0 127	1.29	1.53	0.26	0.90
	127 0 191	3.45	1.23	1.04	1.37
	127 0 255	3.89	0.32	2.06	2.17
	127 63 0	0.23	0.38	0.19	0.28
	127 63 63	1.72	0.75	0.76	1.08
	127 63 127	0.87	1.02	0.35	0.77
	127 63 191	2.98	0.79	0.94	1.25
	127 63 255	4.64	0.37	2.10	2.27
	127 127 0	1.22	0.23	0.18	0.39
	127 127 63	1.79	0.64	0.39	0.90
	127 127 127	0.75	0.16	1.23	1.45
	127 127 191	1.11	0.83	0.39	0.78
	127 127 255	3.36	1.73	1.06	1.56
	127 191 0	1.27	0.43	0.56	0.64
	127 191 63	2.13	0.98	0.72	0.98
	127 191 127	0.34	0.55	0.50	0.60
	127 191 191	0.48	1.79	0.87	1.44
	127 191 255	1.74	2.38	1.19	1.86
	127 255 0	1.18	0.11	1.60	1.61
	127 255 63	1.04	0.13	1.70	1.71
	127 255 127	0.02	1.05	1.56	1.61
	127 255 191	1.08	2.10	1.75	2.00
	127 255 255	2.33	3.18	2.26	2.79
	191 0 0	2.50	2.20	1.31	1.61
	191 0 63	0.48	1.46	1.37	1.52
	191 0 127	0.05	1.43	1.38	1.53
	191 0 191	1.32	2.43	1.35	1.74
	191 0 255	3.11	1.06	1.81	1.93
	191 63 0	0.82	1.17	1.02	1.13
	191 63 63	2.13	0.99	2.02	2.13
	191 63 127	0.39	0.66	1.35	1.39
	191 63 191	1.61	2.01	1.30	1.65
	191 63 255	3.69	1.61	1.98	2.20
	191 127 0	0.55	0.59	0.65	0.71
	191 127 63	2.04	0.48	0.69	0.90
	191 127 127	0.56	0.15	0.28	0.35
	191 127 191	0.08	0.97	0.11	0.59
	191 127 255	1.45	0.91	0.52	0.76
	191 191 0	0.99	0.16	1.25	1.27
	191 191 63	1.93	0.37	1.11	1.22
	191 191 127	0.18	0.30	0.26	0.33
	191 191 191	0.62	0.22	0.75	0.99

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	RGB	Delta C	Delta H	Delta L	Delta E94
	191 191 255	1.00	0.64	0.05	0.56
	191 255 0	1.33	0.37	1.43	1.46
	191 255 63	2.38	0.32	1.24	1.32
	191 255 127	0.15	0.07	0.63	0.64
	191 255 191	1.55	0.08	0.18	0.50
	191 255 255	1.13	2.27	0.24	1.51
	255 0 0	14.50	3.29	6.59	6.94
	255 0 63	8.67	0.60	6.67	6.81
	255 0 127	9.00	7.16	6.27	7.08
	255 0 191	4.08	11.13	5.67	7.28
	255 0 255	0.37	10.60	4.81	6.26
	255 63 0	12.61	0.98	5.90	6.15
	255 63 63	7.35	1.16	6.30	6.43
	255 63 127	8.81	5.33	5.77	6.39
	255 63 191	4.35	10.23	5.43	6.99
	255 63 255	0.55	10.16	4.66	6.13
	255 127 0	9.06	4.41	3.69	4.24
	255 127 63	6.59	4.21	4.33	4.79
	255 127 127	10.06	1.21	3.50	4.16
	255 127 191	7.38	6.81	3.17	4.89
	255 127 255	1.87	8.97	2.49	4.73
	255 191 0	3.70	7.13	2.48	3.75
	255 191 63	2.62	6.86	2.07	3.61
	255 191 127	6.12	4.21	1.12	2.91
	255 191 191	7.15	0.38	0.68	2.62
	255 191 255	2.62	5.50	0.49	3.37
	255 255 0	0.81	2.44	1.77	2.01
	255 255 63	1.93	2.03	1.31	1.59
	255 255 127	0.23	1.94	0.48	1.06
	255 255 191	0.49	0.79	0.41	0.68
	255 255 255 (1)	-	-	-	-
	Average (2)	6.09	4.49	1.33	3.12
	Maximum (2)	32.39	25.90	6.67	8.33

(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
ECI-RGB v2	81%