

# Colorimetric Report

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|                  |                                         |
|------------------|-----------------------------------------|
| Date             | Thursday, April 21, 2022                |
| Tester           | Manuel Findeis                          |
| Display          | LG 28MQ780                              |
| Sensor           | X-Rite i1 Display Pro (Corr.: WLED, XR) |
| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | sRGB                                    |
| Display Profile  | Considered                              |
| Rendering Intent | Relative colorimetric                   |

(1) Five equally spaced code values for each channel

|                                     |                          |
|-------------------------------------|--------------------------|
| White Point (CCT)                   | 6545 Kelvin              |
| White Point XYZ (normalized)        | 94.79 100.00 109.09      |
| DeltaE to D50/ D65                  | 19.71/ 0.47              |
| Assumed Target Whitepoint (2)       | 6500 Kelvin              |
| DeltaE to Assumed Target Whitepoint | 0.44                     |
| Brightness                          | 140.06 cd/m <sup>2</sup> |
| Black Point                         | 0.16 cd/m <sup>2</sup>   |
| Contrast (x:1)                      | 875:1                    |
| Gradation (Average)                 | 2.21                     |

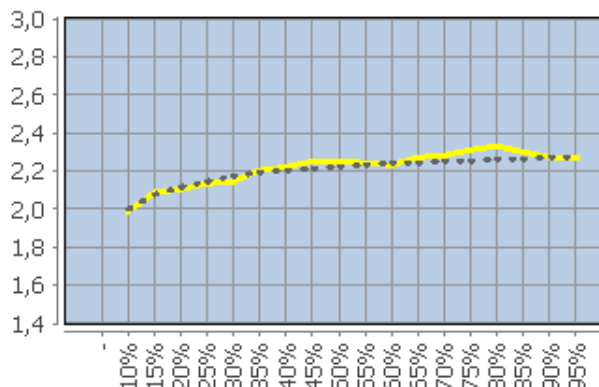
(2) Daylight

|  | Percent     | Kelvin | Delta C | Delta E | Gamma |
|--|-------------|--------|---------|---------|-------|
|  | 5           | -      | -       | -       | -     |
|  | 10          | 6498   | 0.09    | 0.29    | 1.99  |
|  | 15          | 6500   | 0.38    | 0.40    | 2.08  |
|  | 20          | 6508   | 0.10    | 0.43    | 2.10  |
|  | 25          | 6615   | 0.43    | 0.57    | 2.13  |
|  | 30          | 6423   | 0.56    | 0.84    | 2.14  |
|  | 35          | 6463   | 0.98    | 1.01    | 2.20  |
|  | 40          | 6501   | 0.23    | 0.40    | 2.22  |
|  | 45          | 6593   | 0.73    | 1.01    | 2.25  |
|  | 50          | 6559   | 0.07    | 0.41    | 2.25  |
|  | 55          | 6439   | 0.98    | 0.98    | 2.24  |
|  | 60          | 6522   | 0.58    | 0.60    | 2.23  |
|  | 65          | 6456   | 1.01    | 1.04    | 2.27  |
|  | 70          | 6470   | 0.52    | 0.60    | 2.28  |
|  | 75          | 6530   | 0.52    | 0.69    | 2.31  |
|  | 80          | 6570   | 0.32    | 0.60    | 2.33  |
|  | 85          | 6480   | 1.21    | 1.23    | 2.30  |
|  | 90          | 6517   | 0.61    | 0.61    | 2.27  |
|  | 95          | 6518   | 0.92    | 0.92    | 2.27  |
|  | 100 (3)     | 6545   | -       | -       | -     |
|  | Average (4) | -      | 0.57    | 0.7     | 2.21  |
|  | Maximum (4) | -      | 1.21    | 1.23    | -     |
|  | Range (4)   | -      | 2.05    | -       | -     |

(3) Visual adaptation to display whitepoint is assumed

(4) Only luminance > 1% considered

### Corresponding Gamma



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| Sensor           | X-Rite i1 Display Pro (Corr.: WLED, XR) |
| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | sRGB                                    |
| Display Profile  | Considered                              |
| Rendering Intent | Relative colorimetric                   |

(1) Five equally spaced code values for each channel

|  | RGB        | Delta C | Delta H | Delta L | Delta E94 |
|--|------------|---------|---------|---------|-----------|
|  | 0 0 0      | 0.80    | 0.00    | 1.04    | 1.31      |
|  | 0 0 63     | 3.10    | 0.09    | 0.90    | 1.39      |
|  | 0 0 127    | 4.22    | 0.78    | 0.04    | 0.99      |
|  | 0 0 191    | 3.73    | 0.64    | 0.40    | 0.79      |
|  | 0 0 255    | 1.74    | 0.32    | 0.11    | 0.29      |
|  | 0 63 0     | 1.97    | 1.19    | 0.12    | 0.99      |
|  | 0 63 63    | 0.17    | 0.11    | 0.46    | 0.48      |
|  | 0 63 127   | 2.82    | 1.58    | 0.35    | 1.42      |
|  | 0 63 191   | 3.14    | 0.67    | 0.01    | 0.75      |
|  | 0 63 255   | 1.67    | 0.41    | 0.31    | 0.44      |
|  | 0 127 0    | 2.00    | 0.67    | 0.55    | 0.79      |
|  | 0 127 63   | 2.08    | 0.20    | 0.29    | 0.69      |
|  | 0 127 127  | 1.10    | 0.05    | 0.54    | 0.71      |
|  | 0 127 191  | 0.96    | 0.24    | 0.31    | 0.48      |
|  | 0 127 255  | 0.83    | 0.15    | 0.06    | 0.21      |
|  | 0 191 0    | 2.44    | 0.22    | 0.92    | 1.03      |
|  | 0 191 63   | 2.77    | 0.14    | 0.76    | 0.96      |
|  | 0 191 127  | 1.84    | 0.48    | 0.65    | 0.86      |
|  | 0 191 191  | 0.75    | 0.57    | 0.54    | 0.70      |
|  | 0 191 255  | 0.86    | 0.27    | 0.23    | 0.40      |
|  | 0 255 0    | 1.70    | 0.05    | 0.36    | 0.44      |
|  | 0 255 63   | 1.50    | 0.21    | 0.33    | 0.42      |
|  | 0 255 127  | 1.65    | 0.13    | 0.25    | 0.42      |
|  | 0 255 191  | 0.96    | 0.25    | 0.20    | 0.34      |
|  | 0 255 255  | 1.00    | 0.13    | 0.08    | 0.33      |
|  | 63 0 0     | 2.57    | 0.19    | 0.79    | 1.31      |
|  | 63 0 63    | 2.31    | 0.57    | 0.67    | 1.10      |
|  | 63 0 127   | 3.06    | 0.29    | 0.02    | 0.72      |
|  | 63 0 191   | 2.75    | 0.03    | 0.42    | 0.64      |
|  | 63 0 255   | 0.64    | 0.05    | 0.16    | 0.18      |
|  | 63 63 0    | 1.68    | 1.36    | 0.04    | 1.10      |
|  | 63 63 63   | 0.58    | 0.12    | 0.31    | 0.67      |
|  | 63 63 127  | 2.04    | 0.58    | 0.34    | 0.87      |
|  | 63 63 191  | 3.60    | 0.81    | 0.14    | 0.89      |
|  | 63 63 255  | 1.59    | 0.01    | 0.40    | 0.48      |
|  | 63 127 0   | 1.84    | 0.83    | 0.67    | 0.92      |
|  | 63 127 63  | 2.39    | 0.55    | 0.35    | 0.93      |
|  | 63 127 127 | 1.00    | 0.39    | 0.29    | 0.66      |
|  | 63 127 191 | 1.20    | 0.16    | 0.12    | 0.46      |
|  | 63 127 255 | 1.22    | 0.38    | 0.19    | 0.39      |
|  | 63 191 0   | 2.57    | 0.03    | 1.05    | 1.16      |
|  | 63 191 63  | 2.78    | 0.01    | 0.86    | 1.06      |
|  | 63 191 127 | 2.12    | 0.36    | 0.74    | 0.98      |
|  | 63 191 191 | 0.93    | 0.36    | 0.62    | 0.75      |
|  | 63 191 255 | 0.75    | 0.42    | 0.34    | 0.49      |
|  | 63 255 0   | 2.21    | 1.04    | 0.32    | 0.61      |
|  | 63 255 63  | 2.00    | 0.98    | 0.31    | 0.59      |

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| Date             | Thursday, April 21, 2022                |
| Tester           | Manuel Findeis                          |
| Display          | LG 28MQ780                              |
| Sensor           | X-Rite i1 Display Pro (Corr.: WLED, XR) |
| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | sRGB                                    |
| Display Profile  | Considered                              |
| Rendering Intent | Relative colorimetric                   |

(1) Five equally spaced code values for each channel

|  | RGB         | Delta C | Delta H | Delta L | Delta E94 |
|--|-------------|---------|---------|---------|-----------|
|  | 63 255 127  | 2.49    | 0.68    | 0.24    | 0.63      |
|  | 63 255 191  | 2.13    | 0.64    | 0.17    | 0.67      |
|  | 63 255 255  | 1.44    | 0.30    | 0.08    | 0.50      |
|  | 127 0 0     | 3.07    | 1.02    | 0.51    | 1.10      |
|  | 127 0 63    | 1.30    | 1.20    | 0.44    | 0.91      |
|  | 127 0 127   | 1.38    | 0.38    | 0.40    | 0.55      |
|  | 127 0 191   | 2.23    | 0.06    | 0.59    | 0.72      |
|  | 127 0 255   | 0.62    | 0.37    | 0.31    | 0.34      |
|  | 127 63 0    | 3.16    | 0.73    | 0.41    | 1.13      |
|  | 127 63 63   | 1.72    | 0.17    | 0.03    | 0.73      |
|  | 127 63 127  | 2.34    | 0.12    | 0.06    | 0.79      |
|  | 127 63 191  | 2.27    | 0.69    | 0.16    | 0.62      |
|  | 127 63 255  | 1.47    | 0.32    | 0.11    | 0.30      |
|  | 127 127 0   | 1.52    | 0.18    | 0.81    | 0.92      |
|  | 127 127 63  | 1.52    | 0.28    | 0.59    | 0.85      |
|  | 127 127 127 | 0.32    | 0.05    | 0.44    | 0.55      |
|  | 127 127 191 | 0.94    | 0.88    | 0.05    | 0.67      |
|  | 127 127 255 | 1.08    | 0.70    | 0.31    | 0.52      |
|  | 127 191 0   | 2.36    | 1.33    | 0.95    | 1.22      |
|  | 127 191 63  | 2.88    | 0.75    | 0.85    | 1.16      |
|  | 127 191 127 | 2.52    | 0.32    | 0.68    | 1.12      |
|  | 127 191 191 | 1.35    | 0.36    | 0.56    | 0.93      |
|  | 127 191 255 | 0.71    | 0.61    | 0.35    | 0.59      |
|  | 127 255 0   | 1.52    | 0.60    | 0.32    | 0.47      |
|  | 127 255 63  | 1.22    | 1.04    | 0.25    | 0.53      |
|  | 127 255 127 | 2.07    | 0.08    | 0.22    | 0.51      |
|  | 127 255 191 | 1.14    | 0.55    | 0.16    | 0.48      |
|  | 127 255 255 | 1.28    | 0.06    | 0.03    | 0.48      |
|  | 191 0 0     | 2.24    | 0.22    | 0.44    | 0.65      |
|  | 191 0 63    | 1.77    | 0.47    | 0.29    | 0.57      |
|  | 191 0 127   | 1.43    | 0.04    | 0.12    | 0.36      |
|  | 191 0 191   | 1.32    | 0.05    | 0.19    | 0.32      |
|  | 191 0 255   | 0.79    | 0.06    | 0.23    | 0.26      |
|  | 191 63 0    | 2.05    | 0.47    | 0.41    | 0.66      |
|  | 191 63 63   | 1.75    | 0.53    | 0.06    | 0.56      |
|  | 191 63 127  | 1.87    | 0.34    | 0.07    | 0.56      |
|  | 191 63 191  | 1.92    | 0.06    | 0.05    | 0.43      |
|  | 191 63 255  | 1.84    | 0.43    | 0.24    | 0.43      |
|  | 191 127 0   | 0.62    | 1.07    | 0.28    | 0.63      |
|  | 191 127 63  | 1.45    | 1.00    | 0.10    | 0.75      |
|  | 191 127 127 | 1.28    | 0.95    | 0.10    | 0.90      |
|  | 191 127 191 | 2.55    | 0.25    | 0.16    | 0.91      |
|  | 191 127 255 | 1.97    | 0.29    | 0.25    | 0.54      |
|  | 191 191 0   | 1.81    | 0.47    | 0.83    | 0.95      |
|  | 191 191 63  | 2.05    | 0.26    | 0.74    | 0.92      |
|  | 191 191 127 | 1.42    | 0.26    | 0.68    | 0.90      |
|  | 191 191 191 | 0.63    | 0.09    | 0.45    | 0.78      |

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|------------------|-----------------------------------------|
| Date             | Thursday, April 21, 2022                |
| Tester           | Manuel Findeis                          |
| Display          | LG 28MQ780                              |
| Sensor           | X-Rite i1 Display Pro (Corr.: WLED, XR) |
| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | sRGB                                    |
| Display Profile  | Considered                              |
| Rendering Intent | Relative colorimetric                   |

(1) Five equally spaced code values for each channel

|  | RGB             | Delta C | Delta H | Delta L | Delta E94 |
|--|-----------------|---------|---------|---------|-----------|
|  | 191 191 255     | 0.38    | 0.45    | 0.55    | 0.64      |
|  | 191 255 0       | 0.51    | 1.06    | 0.01    | 0.43      |
|  | 191 255 63      | 0.01    | 0.81    | 0.01    | 0.34      |
|  | 191 255 127     | 0.73    | 1.41    | 0.05    | 0.72      |
|  | 191 255 191     | 0.94    | 0.51    | 0.07    | 0.47      |
|  | 191 255 255     | 0.28    | 1.05    | 0.25    | 0.85      |
|  | 255 0 0         | 0.64    | 0.46    | 0.09    | 0.23      |
|  | 255 0 63        | 1.27    | 0.60    | 0.17    | 0.40      |
|  | 255 0 127       | 1.22    | 0.43    | 0.10    | 0.33      |
|  | 255 0 191       | 1.27    | 0.61    | 0.02    | 0.35      |
|  | 255 0 255       | 1.18    | 0.44    | 0.24    | 0.35      |
|  | 255 63 0        | 0.56    | 0.14    | 0.03    | 0.12      |
|  | 255 63 63       | 1.02    | 0.85    | 0.04    | 0.44      |
|  | 255 63 127      | 0.42    | 0.16    | 0.22    | 0.26      |
|  | 255 63 191      | 1.69    | 0.72    | 0.12    | 0.49      |
|  | 255 63 255      | 1.79    | 0.44    | 0.36    | 0.51      |
|  | 255 127 0       | 0.69    | 0.50    | 0.02    | 0.26      |
|  | 255 127 63      | 0.75    | 0.39    | 0.12    | 0.29      |
|  | 255 127 127     | 0.85    | 0.47    | 0.17    | 0.40      |
|  | 255 127 191     | 1.50    | 1.11    | 0.25    | 0.78      |
|  | 255 127 255     | 2.28    | 0.59    | 0.57    | 0.81      |
|  | 255 191 0       | 0.70    | 1.47    | 0.42    | 0.79      |
|  | 255 191 63      | 1.71    | 1.53    | 0.32    | 0.91      |
|  | 255 191 127     | 0.80    | 1.21    | 0.29    | 0.83      |
|  | 255 191 191     | 0.24    | 0.46    | 0.16    | 0.39      |
|  | 255 191 255     | 0.05    | 0.37    | 0.10    | 0.25      |
|  | 255 255 0       | 1.38    | 0.15    | 0.23    | 0.35      |
|  | 255 255 63      | 1.02    | 0.27    | 0.23    | 0.33      |
|  | 255 255 127     | 2.29    | 0.05    | 0.10    | 0.61      |
|  | 255 255 191     | 0.48    | 0.10    | 0.06    | 0.21      |
|  | 255 255 255 (1) | -       | -       | -       | -         |
|  | Average (2)     | 1.57    | 0.48    | 0.32    | 0.65      |
|  | Maximum (2)     | 4.22    | 1.58    | 1.05    | 1.42      |

(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%                     |

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| Date             | Thursday, April 21, 2022                |
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| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | sRGB                                    |
| Display Profile  | Considered                              |
| Rendering Intent | Relative colorimetric                   |

(1) Five equally spaced code values for each channel

| Property             | Device adjustments |
|----------------------|--------------------|
| Backlight brightness |                    |
| Brightness           | 39                 |
| Contrast             | 70                 |
| RGB Gain             | 50 48 48           |
| Gradation            | Modus2             |
| Other                |                    |