

# Colorimetric Report

## Page (1/5)



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|                  |                                         |
|------------------|-----------------------------------------|
| Date             | Friday, June 16, 2023                   |
| Tester           | Simon Blohm                             |
| Display          | LG 27BR650B-C                           |
| 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)                   | 7054 Kelvin              |
| White Point XYZ (normalized)        | 96.45 100.00 119.29      |
| DeltaE to D50/ D65                  | 26.14/ 6.65              |
| Assumed Target Whitepoint (2)       | 7100 Kelvin              |
| DeltaE to Assumed Target Whitepoint | 2.88                     |
| Brightness                          | 195.19 cd/m <sup>2</sup> |
| Black Point                         | 0.21 cd/m <sup>2</sup>   |
| Contrast (x:1)                      | 929:1                    |
| Gradation (Average)                 | 2.13                     |

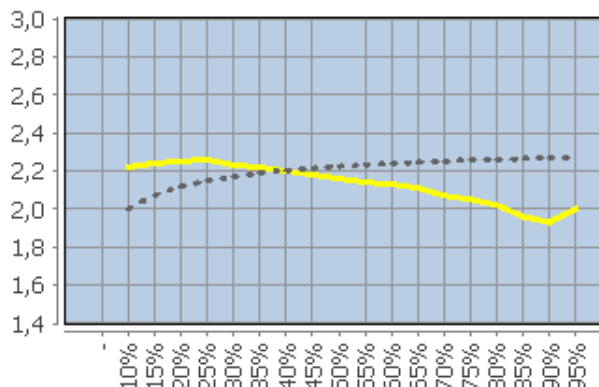
(2) Daylight

|  | Percent     | Kelvin | Delta C | Delta E | Gamma |
|--|-------------|--------|---------|---------|-------|
|  | 5           | -      | -       | -       | -     |
|  | 10          | 8946   | 2.12    | 4.14    | 2.22  |
|  | 15          | 7983   | 1.71    | 3.62    | 2.24  |
|  | 20          | 7602   | 1.36    | 2.91    | 2.25  |
|  | 25          | 7434   | 1.08    | 2.45    | 2.26  |
|  | 30          | 7305   | 0.70    | 1.30    | 2.23  |
|  | 35          | 7245   | 0.58    | 0.77    | 2.22  |
|  | 40          | 7228   | 0.57    | 0.58    | 2.20  |
|  | 45          | 7192   | 0.52    | 0.84    | 2.18  |
|  | 50          | 7193   | 0.55    | 1.18    | 2.16  |
|  | 55          | 7192   | 0.59    | 1.46    | 2.14  |
|  | 60          | 7162   | 0.49    | 1.63    | 2.13  |
|  | 65          | 7147   | 0.52    | 1.78    | 2.11  |
|  | 70          | 7111   | 0.40    | 1.93    | 2.07  |
|  | 75          | 7126   | 0.43    | 1.96    | 2.05  |
|  | 80          | 7104   | 0.39    | 1.80    | 2.02  |
|  | 85          | 6970   | 1.13    | 2.05    | 1.96  |
|  | 90          | 6833   | 2.48    | 2.78    | 1.93  |
|  | 95          | 6872   | 2.10    | 2.17    | 2.00  |
|  | 100 (3)     | 7055   | -       | -       | -     |
|  | Average (4) | -      | 0.92    | 1.84    | 2.13  |
|  | Maximum (4) | -      | 2.48    | 3.62    | -     |
|  | Range (4)   | -      | 4.17    | -       | -     |

(3) Visual adaptation to display whitepoint is assumed

(4) Only luminance > 1% considered

## Corresponding Gamma



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## Page (2/5)



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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  | Not considered                          |
| Rendering Intent | -                                       |

(1) Five equally spaced code values for each channel

|  | RGB        | Delta C | Delta H | Delta L | Delta E94 |
|--|------------|---------|---------|---------|-----------|
|  | 0 0 0      | 1.51    | 0.00    | 0.99    | 1.80      |
|  | 0 0 63     | 5.56    | 0.40    | 0.54    | 1.97      |
|  | 0 0 127    | 1.76    | 0.21    | 1.41    | 1.47      |
|  | 0 0 191    | 0.86    | 0.79    | 2.12    | 2.14      |
|  | 0 0 255    | 2.51    | 2.46    | 1.43    | 1.69      |
|  | 0 63 0     | 6.59    | 2.76    | 2.42    | 3.70      |
|  | 0 63 63    | 4.79    | 1.09    | 2.02    | 3.41      |
|  | 0 63 127   | 4.97    | 6.07    | 0.91    | 4.20      |
|  | 0 63 191   | 6.95    | 5.04    | 0.31    | 2.77      |
|  | 0 63 255   | 5.85    | 4.78    | 0.38    | 2.06      |
|  | 0 127 0    | 1.66    | 9.23    | 0.08    | 4.47      |
|  | 0 127 63   | 0.05    | 8.03    | 0.46    | 4.52      |
|  | 0 127 127  | 5.46    | 0.53    | 0.89    | 2.52      |
|  | 0 127 191  | 0.72    | 6.21    | 1.53    | 4.12      |
|  | 0 127 255  | 1.19    | 5.00    | 1.71    | 2.93      |
|  | 0 191 0    | 5.29    | 13.59   | 1.45    | 5.83      |
|  | 0 191 63   | 3.40    | 12.25   | 1.69    | 5.73      |
|  | 0 191 127  | 3.95    | 6.75    | 1.94    | 4.21      |
|  | 0 191 191  | 6.80    | 0.56    | 2.30    | 3.36      |
|  | 0 191 255  | 4.29    | 4.35    | 2.50    | 3.85      |
|  | 0 255 0    | 5.71    | 16.79   | 0.66    | 6.11      |
|  | 0 255 63   | 3.36    | 15.25   | 0.75    | 5.81      |
|  | 0 255 127  | 4.40    | 9.51    | 0.91    | 4.23      |
|  | 0 255 191  | 9.18    | 3.79    | 1.12    | 3.18      |
|  | 0 255 255  | 9.34    | 1.11    | 1.17    | 3.17      |
|  | 63 0 0     | 7.51    | 3.58    | 2.45    | 4.57      |
|  | 63 0 63    | 2.89    | 3.01    | 1.97    | 2.87      |
|  | 63 0 127   | 1.46    | 2.25    | 0.17    | 1.13      |
|  | 63 0 191   | 2.95    | 0.74    | 1.12    | 1.27      |
|  | 63 0 255   | 3.69    | 1.63    | 0.76    | 1.08      |
|  | 63 63 0    | 2.25    | 0.90    | 2.74    | 2.94      |
|  | 63 63 63   | 1.03    | 0.13    | 2.14    | 2.38      |
|  | 63 63 127  | 5.77    | 1.32    | 1.00    | 2.41      |
|  | 63 63 191  | 6.94    | 2.29    | 0.20    | 1.87      |
|  | 63 63 255  | 5.52    | 3.28    | 0.25    | 1.55      |
|  | 63 127 0   | 5.74    | 5.36    | 0.25    | 3.10      |
|  | 63 127 63  | 3.35    | 4.79    | 0.72    | 3.16      |
|  | 63 127 127 | 2.53    | 0.79    | 1.21    | 1.87      |
|  | 63 127 191 | 1.59    | 3.62    | 1.80    | 2.95      |
|  | 63 127 255 | 0.45    | 3.10    | 1.96    | 2.45      |
|  | 63 191 0   | 7.99    | 11.14   | 1.59    | 5.18      |
|  | 63 191 63  | 5.12    | 9.89    | 1.87    | 5.02      |
|  | 63 191 127 | 2.45    | 5.10    | 2.16    | 3.61      |
|  | 63 191 191 | 5.25    | 0.71    | 2.53    | 3.27      |
|  | 63 191 255 | 3.70    | 3.11    | 2.67    | 3.50      |
|  | 63 255 0   | 7.23    | 15.40   | 0.63    | 5.75      |
|  | 63 255 63  | 4.12    | 13.64   | 0.77    | 5.32      |

# Colorimetric Report

## Page (3/5)



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| Display          | LG 27BR650B-C                           |
| 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

|  | RGB         | Delta C | Delta H | Delta L | Delta E94 |
|--|-------------|---------|---------|---------|-----------|
|  | 63 255 127  | 4.17    | 8.03    | 0.94    | 3.71      |
|  | 63 255 191  | 8.45    | 3.01    | 1.17    | 2.93      |
|  | 63 255 255  | 8.48    | 0.96    | 1.21    | 3.04      |
|  | 127 0 0     | 4.89    | 0.73    | 2.73    | 3.05      |
|  | 127 0 63    | 2.93    | 1.06    | 2.31    | 2.55      |
|  | 127 0 127   | 1.72    | 4.26    | 1.19    | 2.44      |
|  | 127 0 191   | 4.04    | 2.69    | 0.02    | 1.33      |
|  | 127 0 255   | 4.16    | 0.29    | 0.12    | 0.65      |
|  | 127 63 0    | 0.06    | 1.08    | 2.81    | 2.87      |
|  | 127 63 63   | 0.97    | 0.48    | 2.21    | 2.27      |
|  | 127 63 127  | 4.43    | 3.32    | 1.27    | 2.78      |
|  | 127 63 191  | 6.63    | 0.99    | 0.23    | 1.58      |
|  | 127 63 255  | 5.36    | 1.58    | 0.02    | 1.09      |
|  | 127 127 0   | 8.61    | 0.06    | 0.07    | 2.39      |
|  | 127 127 63  | 5.86    | 0.59    | 0.46    | 2.32      |
|  | 127 127 127 | 0.60    | 0.14    | 1.02    | 1.19      |
|  | 127 127 191 | 2.34    | 0.47    | 1.60    | 1.85      |
|  | 127 127 255 | 0.37    | 1.60    | 1.83    | 1.98      |
|  | 127 191 0   | 11.53   | 7.03    | 1.37    | 4.19      |
|  | 127 191 63  | 8.21    | 6.37    | 1.70    | 4.08      |
|  | 127 191 127 | 0.41    | 3.49    | 2.05    | 2.96      |
|  | 127 191 191 | 2.96    | 0.35    | 2.41    | 2.86      |
|  | 127 191 255 | 2.73    | 2.48    | 2.62    | 3.22      |
|  | 127 255 0   | 9.95    | 13.17   | 0.51    | 5.28      |
|  | 127 255 63  | 6.28    | 11.87   | 0.67    | 4.93      |
|  | 127 255 127 | 2.46    | 7.15    | 0.87    | 3.44      |
|  | 127 255 191 | 7.10    | 3.18    | 1.12    | 2.95      |
|  | 127 255 255 | 7.68    | 0.81    | 1.18    | 3.16      |
|  | 191 0 0     | 1.12    | 3.37    | 3.08    | 3.43      |
|  | 191 0 63    | 2.93    | 0.17    | 2.83    | 2.92      |
|  | 191 0 127   | 0.19    | 6.18    | 2.09    | 3.62      |
|  | 191 0 191   | 3.95    | 5.54    | 1.19    | 2.71      |
|  | 191 0 255   | 4.59    | 1.98    | 0.92    | 1.37      |
|  | 191 63 0    | 2.46    | 4.16    | 3.06    | 3.67      |
|  | 191 63 63   | 1.66    | 0.39    | 2.61    | 2.66      |
|  | 191 63 127  | 1.03    | 6.26    | 1.92    | 3.88      |
|  | 191 63 191  | 5.10    | 4.96    | 1.09    | 2.77      |
|  | 191 63 255  | 5.02    | 1.22    | 0.82    | 1.29      |
|  | 191 127 0   | 8.22    | 6.33    | 0.68    | 3.84      |
|  | 191 127 63  | 3.27    | 6.16    | 0.18    | 3.74      |
|  | 191 127 127 | 3.59    | 0.44    | 0.34    | 1.69      |
|  | 191 127 191 | 0.57    | 3.43    | 0.89    | 2.29      |
|  | 191 127 255 | 0.07    | 0.94    | 1.15    | 1.24      |
|  | 191 191 0   | 14.20   | 0.06    | 0.86    | 3.26      |
|  | 191 191 63  | 10.48   | 0.40    | 1.21    | 2.98      |
|  | 191 191 127 | 2.47    | 0.99    | 1.54    | 1.94      |
|  | 191 191 191 | 0.45    | 0.16    | 1.93    | 1.99      |

# Colorimetric Report

## Page (4/5)



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|------------------|-----------------------------------------|
| Date             | Friday, June 16, 2023                   |
| Tester           | Simon Blohm                             |
| Display          | LG 27BR650B-C                           |
| 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

|  | RGB             | Delta C | Delta H | Delta L | Delta E94 |
|--|-----------------|---------|---------|---------|-----------|
|  | 191 191 255     | 1.96    | 0.55    | 2.16    | 2.32      |
|  | 191 255 0       | 13.61   | 8.55    | 0.15    | 4.20      |
|  | 191 255 63      | 9.62    | 7.64    | 0.31    | 3.75      |
|  | 191 255 127     | 0.47    | 4.61    | 0.54    | 2.35      |
|  | 191 255 191     | 4.06    | 2.67    | 0.77    | 2.34      |
|  | 191 255 255     | 5.02    | 0.42    | 0.85    | 2.75      |
|  | 255 0 0         | 1.02    | 7.19    | 4.28    | 5.11      |
|  | 255 0 63        | 4.19    | 0.30    | 4.14    | 4.23      |
|  | 255 0 127       | 2.87    | 8.74    | 3.61    | 5.31      |
|  | 255 0 191       | 2.27    | 9.64    | 2.91    | 4.94      |
|  | 255 0 255       | 4.12    | 6.00    | 2.71    | 3.55      |
|  | 255 63 0        | 2.37    | 7.33    | 4.15    | 5.13      |
|  | 255 63 63       | 4.00    | 0.91    | 3.87    | 3.98      |
|  | 255 63 127      | 3.34    | 8.64    | 3.32    | 5.31      |
|  | 255 63 191      | 2.15    | 9.64    | 2.66    | 5.04      |
|  | 255 63 255      | 3.77    | 5.70    | 2.44    | 3.36      |
|  | 255 127 0       | 5.40    | 11.48   | 1.82    | 5.46      |
|  | 255 127 63      | 1.52    | 8.88    | 1.42    | 4.53      |
|  | 255 127 127     | 7.95    | 0.84    | 0.96    | 2.56      |
|  | 255 127 191     | 3.86    | 6.74    | 0.46    | 3.83      |
|  | 255 127 255     | 2.22    | 4.85    | 0.26    | 2.30      |
|  | 255 191 0       | 13.26   | 8.96    | 0.09    | 4.85      |
|  | 255 191 63      | 8.01    | 8.91    | 0.20    | 4.74      |
|  | 255 191 127     | 1.90    | 6.53    | 0.54    | 4.02      |
|  | 255 191 191     | 5.89    | 0.10    | 0.89    | 2.93      |
|  | 255 191 255     | 4.26    | 2.72    | 1.05    | 2.51      |
|  | 255 255 0       | 16.12   | 0.52    | 0.63    | 3.08      |
|  | 255 255 63      | 11.47   | 0.14    | 0.50    | 2.39      |
|  | 255 255 127     | 1.67    | 1.09    | 0.28    | 0.77      |
|  | 255 255 191     | 1.86    | 0.99    | 0.06    | 1.01      |
|  | 255 255 255 (1) | -       | -       | -       | -         |
|  | Average (2)     | 4.44    | 4.23    | 1.41    | 3.18      |
|  | Maximum (2)     | 16.12   | 16.79   | 4.28    | 6.11      |

(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        | 86%                     |

# Colorimetric Report

## Page (5/5)



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| Date             | Friday, June 16, 2023                   |
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| 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

| Property             | Device adjustments |
|----------------------|--------------------|
| Backlight brightness |                    |
| Brightness           | 90                 |
| Contrast             | 70                 |
| RGB Gain             | 50 50 50           |
| Gradation            | Modus 2            |
| Other                |                    |