

# Colorimetric Report

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|                  |                                       |
|------------------|---------------------------------------|
| Date             | Tuesday, February 17, 2015            |
| Display          | Philips BDM4065UC                     |
| Sensor           | X-Rite i1 Display Pro (EDR: WLED)     |
| 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)                   | 6487 Kelvin              |
| White Point XYZ (normalized)        | 94.98 100.00 108.53      |
| DeltaE to D50/ D65                  | 19.29/ 0.25              |
| Assumed Target Whitepoint (2)       | 6500 Kelvin              |
| DeltaE to Assumed Target Whitepoint | 0.16                     |
| Brightness                          | 142.11 cd/m <sup>2</sup> |
| Black Point                         | 0.02 cd/m <sup>2</sup>   |
| Contrast (x:1)                      | 7106:1                   |
| Gradation (Average)                 | 2.22                     |

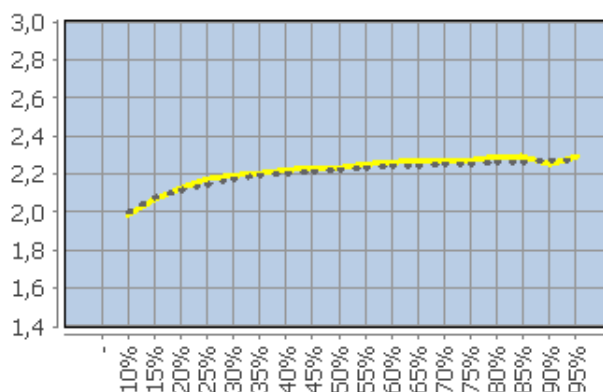
(2) Daylight

|  | Percent     | Kelvin | Delta C | Delta E | Gamma |
|--|-------------|--------|---------|---------|-------|
|  | 5           | -      | -       | -       | -     |
|  | 10          | 6614   | 0.95    | 0.97    | 1.99  |
|  | 15          | 6563   | 0.36    | 0.36    | 2.07  |
|  | 20          | 6459   | 0.57    | 0.58    | 2.12  |
|  | 25          | 6531   | 0.51    | 0.64    | 2.17  |
|  | 30          | 6540   | 0.90    | 1.00    | 2.19  |
|  | 35          | 6608   | 0.58    | 0.65    | 2.20  |
|  | 40          | 6636   | 1.11    | 1.14    | 2.22  |
|  | 45          | 6548   | 0.93    | 0.97    | 2.23  |
|  | 50          | 6580   | 0.51    | 0.54    | 2.23  |
|  | 55          | 6500   | 0.60    | 0.68    | 2.25  |
|  | 60          | 6505   | 0.40    | 0.46    | 2.26  |
|  | 65          | 6532   | 0.65    | 0.69    | 2.27  |
|  | 70          | 6501   | 0.33    | 0.37    | 2.27  |
|  | 75          | 6499   | 0.37    | 0.39    | 2.27  |
|  | 80          | 6479   | 0.27    | 0.33    | 2.29  |
|  | 85          | 6503   | 0.36    | 0.38    | 2.29  |
|  | 90          | 6474   | 0.16    | 0.17    | 2.25  |
|  | 95          | 6517   | 0.41    | 0.41    | 2.29  |
|  | 100 (3)     | 6487   | -       | -       | -     |
|  | Average (4) | -      | 0.55    | 0.6     | 2.22  |
|  | Maximum (4) | -      | 1.11    | 1.14    | -     |
|  | Range (4)   | -      | 1.26    | -       | -     |

(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 (EDR: WLED)     |
| 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      | 0.90    | 0.00    | 0.16    | 0.92      |
|  | 0 0 63     | 1.47    | 1.58    | 0.83    | 1.36      |
|  | 0 0 127    | 4.98    | 1.43    | 0.64    | 1.42      |
|  | 0 0 191    | 4.98    | 2.20    | 1.09    | 1.62      |
|  | 0 0 255    | 4.04    | 2.81    | 1.83    | 2.13      |
|  | 0 63 0     | 0.67    | 1.77    | 0.69    | 1.30      |
|  | 0 63 63    | 0.82    | 2.87    | 0.49    | 2.34      |
|  | 0 63 127   | 2.15    | 1.29    | 0.08    | 1.09      |
|  | 0 63 191   | 2.54    | 2.56    | 0.35    | 1.34      |
|  | 0 63 255   | 1.81    | 3.58    | 1.34    | 1.91      |
|  | 0 127 0    | 0.22    | 2.40    | 0.69    | 1.35      |
|  | 0 127 63   | 2.53    | 0.27    | 0.43    | 0.88      |
|  | 0 127 127  | 0.18    | 2.43    | 0.30    | 1.71      |
|  | 0 127 191  | 2.59    | 0.53    | 0.04    | 0.95      |
|  | 0 127 255  | 1.78    | 2.89    | 0.63    | 1.56      |
|  | 0 191 0    | 0.40    | 1.68    | 0.36    | 0.78      |
|  | 0 191 63   | 1.81    | 0.19    | 0.42    | 0.58      |
|  | 0 191 127  | 1.91    | 1.80    | 0.31    | 1.13      |
|  | 0 191 191  | 1.17    | 1.80    | 0.06    | 1.20      |
|  | 0 191 255  | 2.48    | 1.55    | 0.47    | 1.31      |
|  | 0 255 0    | 2.25    | 2.91    | 0.18    | 1.11      |
|  | 0 255 63   | 2.06    | 3.42    | 0.00    | 1.33      |
|  | 0 255 127  | 1.89    | 4.10    | 0.05    | 1.78      |
|  | 0 255 191  | 0.37    | 4.40    | 0.23    | 2.21      |
|  | 0 255 255  | 3.95    | 2.11    | 0.34    | 1.74      |
|  | 63 0 0     | 1.79    | 2.38    | 0.03    | 1.74      |
|  | 63 0 63    | 1.92    | 0.72    | 0.91    | 1.20      |
|  | 63 0 127   | 0.53    | 0.61    | 0.37    | 0.48      |
|  | 63 0 191   | 0.35    | 0.22    | 1.05    | 1.06      |
|  | 63 0 255   | 0.95    | 0.08    | 0.60    | 0.62      |
|  | 63 63 0    | 4.00    | 1.15    | 0.90    | 1.94      |
|  | 63 63 63   | 0.38    | 0.09    | 0.43    | 0.58      |
|  | 63 63 127  | 0.39    | 0.16    | 0.50    | 0.53      |
|  | 63 63 191  | 0.70    | 0.90    | 0.88    | 0.99      |
|  | 63 63 255  | 0.71    | 0.05    | 0.42    | 0.44      |
|  | 63 127 0   | 1.54    | 2.51    | 0.58    | 1.45      |
|  | 63 127 63  | 0.19    | 1.47    | 0.43    | 0.98      |
|  | 63 127 127 | 1.14    | 0.26    | 0.47    | 0.77      |
|  | 63 127 191 | 0.13    | 1.60    | 0.65    | 1.20      |
|  | 63 127 255 | 1.14    | 1.34    | 0.37    | 0.78      |
|  | 63 191 0   | 0.50    | 2.08    | 0.35    | 0.95      |
|  | 63 191 63  | 0.74    | 1.15    | 0.35    | 0.65      |
|  | 63 191 127 | 1.59    | 0.48    | 0.35    | 0.64      |
|  | 63 191 191 | 1.81    | 0.59    | 0.58    | 0.98      |
|  | 63 191 255 | 0.04    | 1.60    | 0.14    | 0.97      |
|  | 63 255 0   | 1.16    | 2.30    | 0.09    | 0.86      |
|  | 63 255 63  | 1.58    | 2.46    | 0.08    | 0.98      |

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| Date             | Tuesday, February 17, 2015            |
| Display          | Philips BDM4065UC                     |
| Sensor           | X-Rite i1 Display Pro (EDR: WLED)     |
| 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  | 1.31    | 2.20    | 0.00    | 0.99      |
|  | 63 255 191  | 1.10    | 2.13    | 0.05    | 1.13      |
|  | 63 255 255  | 0.66    | 2.25    | 0.02    | 1.34      |
|  | 127 0 0     | 4.24    | 5.66    | 0.64    | 3.23      |
|  | 127 0 63    | 1.02    | 0.85    | 0.20    | 0.61      |
|  | 127 0 127   | 0.19    | 0.50    | 0.20    | 0.32      |
|  | 127 0 191   | 0.72    | 0.33    | 0.23    | 0.30      |
|  | 127 0 255   | 0.31    | 0.52    | 0.62    | 0.65      |
|  | 127 63 0    | 4.19    | 5.93    | 0.37    | 3.63      |
|  | 127 63 63   | 0.39    | 0.92    | 0.14    | 0.67      |
|  | 127 63 127  | 0.30    | 0.13    | 0.12    | 0.17      |
|  | 127 63 191  | 0.64    | 0.15    | 0.41    | 0.44      |
|  | 127 63 255  | 0.31    | 0.76    | 0.53    | 0.60      |
|  | 127 127 0   | 3.65    | 0.46    | 0.21    | 1.06      |
|  | 127 127 63  | 1.68    | 0.18    | 0.10    | 0.66      |
|  | 127 127 127 | 0.79    | 0.14    | 0.23    | 0.83      |
|  | 127 127 191 | 0.70    | 0.63    | 0.38    | 0.62      |
|  | 127 127 255 | 0.12    | 1.03    | 0.39    | 0.63      |
|  | 127 191 0   | 2.44    | 1.35    | 0.18    | 0.81      |
|  | 127 191 63  | 1.05    | 1.09    | 0.21    | 0.63      |
|  | 127 191 127 | 0.20    | 0.83    | 0.29    | 0.59      |
|  | 127 191 191 | 0.82    | 0.39    | 0.34    | 0.61      |
|  | 127 191 255 | 0.65    | 1.42    | 0.28    | 0.98      |
|  | 127 255 0   | 0.73    | 2.17    | 0.28    | 0.88      |
|  | 127 255 63  | 0.77    | 2.04    | 0.08    | 0.83      |
|  | 127 255 127 | 0.42    | 1.99    | 0.07    | 0.92      |
|  | 127 255 191 | 0.22    | 1.90    | 0.06    | 1.06      |
|  | 127 255 255 | 0.58    | 1.06    | 0.02    | 0.72      |
|  | 191 0 0     | 5.07    | 5.91    | 0.88    | 2.95      |
|  | 191 0 63    | 0.37    | 0.90    | 0.77    | 0.89      |
|  | 191 0 127   | 0.09    | 0.67    | 0.68    | 0.75      |
|  | 191 0 191   | 0.55    | 1.18    | 0.30    | 0.59      |
|  | 191 0 255   | 0.65    | 0.17    | 0.04    | 0.12      |
|  | 191 63 0    | 3.13    | 5.71    | 0.20    | 2.79      |
|  | 191 63 63   | 0.23    | 1.88    | 0.44    | 1.09      |
|  | 191 63 127  | 1.15    | 0.42    | 0.34    | 0.52      |
|  | 191 63 191  | 0.64    | 0.87    | 0.09    | 0.44      |
|  | 191 63 255  | 0.20    | 0.21    | 0.19    | 0.21      |
|  | 191 127 0   | 2.88    | 3.06    | 0.24    | 1.71      |
|  | 191 127 63  | 1.27    | 1.69    | 0.38    | 1.13      |
|  | 191 127 127 | 0.55    | 0.70    | 0.24    | 0.61      |
|  | 191 127 191 | 0.25    | 0.41    | 0.05    | 0.27      |
|  | 191 127 255 | 0.41    | 0.30    | 0.07    | 0.18      |
|  | 191 191 0   | 2.30    | 0.26    | 0.08    | 0.53      |
|  | 191 191 63  | 1.86    | 0.42    | 0.08    | 0.53      |
|  | 191 191 127 | 1.06    | 0.17    | 0.03    | 0.44      |
|  | 191 191 191 | 0.45    | 0.07    | 0.06    | 0.46      |

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|------------------|---------------------------------------|
| Date             | Tuesday, February 17, 2015            |
| Display          | Philips BDM4065UC                     |
| Sensor           | X-Rite i1 Display Pro (EDR: WLED)     |
| 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     | 0.29    | 0.53    | 0.02    | 0.37      |
|  | 191 255 0       | 0.85    | 2.05    | 0.43    | 0.94      |
|  | 191 255 63      | 0.71    | 2.43    | 0.36    | 1.10      |
|  | 191 255 127     | 0.55    | 2.17    | 0.22    | 1.10      |
|  | 191 255 191     | 0.50    | 1.85    | 0.28    | 1.20      |
|  | 191 255 255     | 1.16    | 0.69    | 0.14    | 0.81      |
|  | 255 0 0         | 3.66    | 0.44    | 1.36    | 1.51      |
|  | 255 0 63        | 3.19    | 1.51    | 1.42    | 1.68      |
|  | 255 0 127       | 1.44    | 3.38    | 1.22    | 1.95      |
|  | 255 0 191       | 0.28    | 2.35    | 0.91    | 1.33      |
|  | 255 0 255       | 0.19    | 0.94    | 0.46    | 0.57      |
|  | 255 63 0        | 2.51    | 0.20    | 1.76    | 1.82      |
|  | 255 63 63       | 3.41    | 1.04    | 1.49    | 1.71      |
|  | 255 63 127      | 1.88    | 3.90    | 1.23    | 2.25      |
|  | 255 63 191      | 0.22    | 2.54    | 0.94    | 1.46      |
|  | 255 63 255      | 0.20    | 1.08    | 0.48    | 0.64      |
|  | 255 127 0       | 2.37    | 1.86    | 1.58    | 1.85      |
|  | 255 127 63      | 4.13    | 0.41    | 1.30    | 1.64      |
|  | 255 127 127     | 3.68    | 2.01    | 1.01    | 1.85      |
|  | 255 127 191     | 1.49    | 2.10    | 0.79    | 1.45      |
|  | 255 127 255     | 0.12    | 1.17    | 0.47    | 0.72      |
|  | 255 191 0       | 0.25    | 4.35    | 1.03    | 2.19      |
|  | 255 191 63      | 3.24    | 3.08    | 1.01    | 1.96      |
|  | 255 191 127     | 4.16    | 0.89    | 0.98    | 1.79      |
|  | 255 191 191     | 2.46    | 1.05    | 0.61    | 1.52      |
|  | 255 191 255     | 0.41    | 1.47    | 0.12    | 0.94      |
|  | 255 255 0       | 3.04    | 2.55    | 0.44    | 1.26      |
|  | 255 255 63      | 1.43    | 2.62    | 0.49    | 1.27      |
|  | 255 255 127     | 0.30    | 2.08    | 0.29    | 1.12      |
|  | 255 255 191     | 0.61    | 0.84    | 0.53    | 0.82      |
|  | 255 255 255 (1) | -       | -       | -       | -         |
|  | Average (2)     | 1.41    | 1.57    | 0.47    | 1.12      |
|  | Maximum (2)     | 5.07    | 5.93    | 1.83    | 3.63      |

(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        | 92%                     |

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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           | 53                 |
| Contrast             | 50                 |
| RGB Gain             | 100 98 78          |
| Gradation            | 2,2                |
| Other                |                    |