

# Colorimetric Report

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|                  |                                       |
|------------------|---------------------------------------|
| Date             | Wednesday, October 4, 2023            |
| Tester           | Damian Köb                            |
| Display          | MSI MAG 274UPFDE                      |
| Sensor           | X-Rite i1 Pro                         |
| Testchart        | In accordance with ISO 12646:2007 (1) |
| Target           | DCI-P3 RGB                            |
| Display Profile  | Considered                            |
| Rendering Intent | Relative colorimetric                 |

(1) Five equally spaced code values for each channel

|                                     |                     |
|-------------------------------------|---------------------|
| White Point (CCT)                   | 6538 Kelvin         |
| White Point XYZ (normalized)        | 94.92 100.00 109.22 |
| DeltaE to D50/ D65                  | 19.76/ 0.30         |
| Assumed Target Whitepoint (2)       | 6500 Kelvin         |
| DeltaE to Assumed Target Whitepoint | 0.33                |
| Brightness (3)                      | 142.30 cd/m²        |
| Black Point (3)                     | 0.09 cd/m²          |
| Contrast (x:1)                      | 1581:1              |
| Gradation (Average)                 | 2.55                |

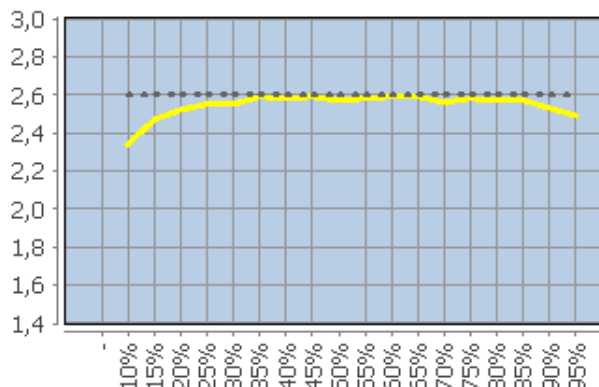
(2) Daylight (3) Measured separately

|  | Percent     | Kelvin | Delta C | Delta E | Gamma |
|--|-------------|--------|---------|---------|-------|
|  | 5           | -      | -       | -       | -     |
|  | 10          | 7553   | 1.02    | 2.18    | 2.34  |
|  | 15          | 6671   | 0.22    | 1.82    | 2.47  |
|  | 20          | 6615   | 0.46    | 1.32    | 2.52  |
|  | 25          | 6396   | 1.38    | 1.58    | 2.55  |
|  | 30          | 6508   | 0.11    | 0.84    | 2.55  |
|  | 35          | 6512   | 0.27    | 0.33    | 2.59  |
|  | 40          | 6543   | 0.02    | 0.27    | 2.58  |
|  | 45          | 6541   | 0.86    | 0.89    | 2.59  |
|  | 50          | 6588   | 0.47    | 0.65    | 2.57  |
|  | 55          | 6523   | 0.55    | 0.64    | 2.58  |
|  | 60          | 6454   | 0.44    | 0.46    | 2.59  |
|  | 65          | 6580   | 0.53    | 0.55    | 2.59  |
|  | 70          | 6517   | 0.44    | 0.63    | 2.56  |
|  | 75          | 6572   | 0.23    | 0.29    | 2.58  |
|  | 80          | 6505   | 0.61    | 0.65    | 2.57  |
|  | 85          | 6536   | 0.29    | 0.34    | 2.57  |
|  | 90          | 6536   | 0.35    | 0.44    | 2.53  |
|  | 95          | 6496   | 0.39    | 0.45    | 2.49  |
|  | 100 (4)     | 6538   | -       | -       | -     |
|  | Average (5) | -      | 0.46    | 0.64    | 2.55  |
|  | Maximum (5) | -      | 1.38    | 1.58    | -     |
|  | Range (5)   | -      | 2.23    | -       | -     |

(4) Visual adaptation to display whitepoint is assumed

(5) Only luminance > 1% considered

### Corresponding Gamma



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| Display          | MSI MAG 274UPFDE                      |
| Sensor           | X-Rite i1 Pro                         |
| Testchart        | In accordance with ISO 12646:2007 (1) |
| Target           | DCI-P3 RGB                            |
| 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      | 0.86    | 0.00    | 1.11    | 1.40      |
|  | 0 0 63     | 2.59    | 0.27    | 1.78    | 2.10      |
|  | 0 0 127    | 9.47    | 4.45    | 3.15    | 4.35      |
|  | 0 0 191    | 11.50   | 6.03    | 3.44    | 4.59      |
|  | 0 0 255    | 14.38   | 7.23    | 4.21    | 5.22      |
|  | 0 63 0     | 3.38    | 0.31    | 0.66    | 1.37      |
|  | 0 63 63    | 1.45    | 0.86    | 0.63    | 1.19      |
|  | 0 63 127   | 0.71    | 0.36    | 0.59    | 0.67      |
|  | 0 63 191   | 1.12    | 0.45    | 0.45    | 0.54      |
|  | 0 63 255   | 2.56    | 0.80    | 0.68    | 0.82      |
|  | 0 127 0    | 5.11    | 2.68    | 0.16    | 1.58      |
|  | 0 127 63   | 1.12    | 0.01    | 0.21    | 0.35      |
|  | 0 127 127  | 0.03    | 1.05    | 0.48    | 0.83      |
|  | 0 127 191  | 0.22    | 0.15    | 0.37    | 0.39      |
|  | 0 127 255  | 1.22    | 0.38    | 0.34    | 0.46      |
|  | 0 191 0    | 4.85    | 3.24    | 0.27    | 1.39      |
|  | 0 191 63   | 1.43    | 0.23    | 0.07    | 0.27      |
|  | 0 191 127  | 1.01    | 0.20    | 0.07    | 0.25      |
|  | 0 191 191  | 0.34    | 0.11    | 0.32    | 0.34      |
|  | 0 191 255  | 0.73    | 0.61    | 0.39    | 0.56      |
|  | 0 255 0    | 6.57    | 3.54    | 0.63    | 1.47      |
|  | 0 255 63   | 2.14    | 0.03    | 0.68    | 0.74      |
|  | 0 255 127  | 2.14    | 0.43    | 0.55    | 0.66      |
|  | 0 255 191  | 1.52    | 0.54    | 0.20    | 0.43      |
|  | 0 255 255  | 0.39    | 0.35    | 0.29    | 0.35      |
|  | 63 0 0     | 0.84    | 0.13    | 1.06    | 1.12      |
|  | 63 0 63    | 3.81    | 0.07    | 1.90    | 2.37      |
|  | 63 0 127   | 7.21    | 2.54    | 2.35    | 3.14      |
|  | 63 0 191   | 10.63   | 5.06    | 3.20    | 4.18      |
|  | 63 0 255   | 13.88   | 6.46    | 4.07    | 4.98      |
|  | 63 63 0    | 2.56    | 0.75    | 0.45    | 1.30      |
|  | 63 63 63   | 1.32    | 0.17    | 0.71    | 1.51      |
|  | 63 63 127  | 0.53    | 0.13    | 0.59    | 0.62      |
|  | 63 63 191  | 0.96    | 0.16    | 0.48    | 0.52      |
|  | 63 63 255  | 2.57    | 0.74    | 0.68    | 0.83      |
|  | 63 127 0   | 5.07    | 2.49    | 0.18    | 1.60      |
|  | 63 127 63  | 1.04    | 0.16    | 0.27    | 0.40      |
|  | 63 127 127 | 0.50    | 0.95    | 0.61    | 0.93      |
|  | 63 127 191 | 0.32    | 0.17    | 0.40    | 0.43      |
|  | 63 127 255 | 1.34    | 0.28    | 0.38    | 0.48      |
|  | 63 191 0   | 5.26    | 3.28    | 0.21    | 1.46      |
|  | 63 191 63  | 1.41    | 0.24    | 0.07    | 0.27      |
|  | 63 191 127 | 0.87    | 0.12    | 0.07    | 0.22      |
|  | 63 191 191 | 0.36    | 0.19    | 0.36    | 0.39      |
|  | 63 191 255 | 0.65    | 0.62    | 0.33    | 0.52      |
|  | 63 255 0   | 6.50    | 3.39    | 0.68    | 1.47      |
|  | 63 255 63  | 2.21    | 0.25    | 0.67    | 0.74      |

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|------------------|---------------------------------------|
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| Tester           | Damian Köb                            |
| Display          | MSI MAG 274UPFDE                      |
| Sensor           | X-Rite i1 Pro                         |
| Testchart        | In accordance with ISO 12646:2007 (1) |
| Target           | DCI-P3 RGB                            |
| 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  | 2.16    | 0.30    | 0.54    | 0.65      |
|  | 63 255 191  | 1.36    | 0.59    | 0.20    | 0.42      |
|  | 63 255 255  | 0.39    | 0.35    | 0.28    | 0.35      |
|  | 127 0 0     | 3.09    | 1.40    | 0.33    | 1.11      |
|  | 127 0 63    | 1.08    | 0.91    | 0.01    | 0.60      |
|  | 127 0 127   | 3.79    | 0.88    | 0.94    | 1.38      |
|  | 127 0 191   | 7.69    | 2.05    | 2.24    | 2.76      |
|  | 127 0 255   | 11.61   | 4.32    | 3.23    | 3.91      |
|  | 127 63 0    | 2.65    | 1.61    | 0.01    | 1.13      |
|  | 127 63 63   | 1.28    | 1.19    | 0.28    | 0.91      |
|  | 127 63 127  | 0.00    | 0.19    | 0.37    | 0.39      |
|  | 127 63 191  | 0.75    | 0.15    | 0.48    | 0.51      |
|  | 127 63 255  | 1.95    | 0.32    | 0.45    | 0.55      |
|  | 127 127 0   | 5.33    | 1.61    | 0.04    | 1.51      |
|  | 127 127 63  | 0.71    | 0.10    | 0.14    | 0.28      |
|  | 127 127 127 | 0.86    | 0.06    | 0.39    | 0.94      |
|  | 127 127 191 | 0.11    | 0.11    | 0.39    | 0.40      |
|  | 127 127 255 | 1.68    | 0.06    | 0.53    | 0.63      |
|  | 127 191 0   | 5.51    | 2.85    | 0.25    | 1.48      |
|  | 127 191 63  | 1.63    | 0.47    | 0.01    | 0.38      |
|  | 127 191 127 | 1.09    | 0.32    | 0.01    | 0.35      |
|  | 127 191 191 | 0.11    | 0.11    | 0.31    | 0.32      |
|  | 127 191 255 | 0.92    | 0.05    | 0.41    | 0.50      |
|  | 127 255 0   | 6.97    | 2.75    | 0.66    | 1.43      |
|  | 127 255 63  | 2.10    | 0.81    | 0.69    | 0.80      |
|  | 127 255 127 | 2.58    | 0.03    | 0.51    | 0.68      |
|  | 127 255 191 | 2.15    | 0.21    | 0.15    | 0.52      |
|  | 127 255 255 | 0.99    | 0.21    | 0.34    | 0.46      |
|  | 191 0 0     | 2.53    | 1.83    | 0.03    | 0.87      |
|  | 191 0 63    | 1.07    | 0.59    | 0.21    | 0.41      |
|  | 191 0 127   | 1.51    | 1.16    | 0.32    | 0.70      |
|  | 191 0 191   | 4.67    | 0.64    | 1.13    | 1.45      |
|  | 191 0 255   | 8.65    | 2.13    | 2.11    | 2.57      |
|  | 191 63 0    | 3.54    | 2.65    | 0.05    | 1.28      |
|  | 191 63 63   | 0.70    | 0.59    | 0.09    | 0.33      |
|  | 191 63 127  | 0.48    | 0.55    | 0.25    | 0.38      |
|  | 191 63 191  | 0.23    | 0.12    | 0.26    | 0.27      |
|  | 191 63 255  | 0.94    | 0.10    | 0.10    | 0.18      |
|  | 191 127 0   | 5.40    | 2.09    | 0.00    | 1.42      |
|  | 191 127 63  | 0.68    | 0.00    | 0.34    | 0.38      |
|  | 191 127 127 | 0.02    | 0.28    | 0.28    | 0.33      |
|  | 191 127 191 | 0.01    | 0.45    | 0.16    | 0.30      |
|  | 191 127 255 | 1.51    | 0.09    | 0.30    | 0.43      |
|  | 191 191 0   | 6.27    | 0.44    | 0.37    | 1.22      |
|  | 191 191 63  | 0.92    | 0.14    | 0.18    | 0.27      |
|  | 191 191 127 | 0.40    | 0.21    | 0.13    | 0.23      |
|  | 191 191 191 | 0.19    | 0.11    | 0.20    | 0.29      |

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|------------------|---------------------------------------|
| Date             | Wednesday, October 4, 2023            |
| Tester           | Damian Köb                            |
| Display          | MSI MAG 274UPFDE                      |
| Sensor           | X-Rite i1 Pro                         |
| Testchart        | In accordance with ISO 12646:2007 (1) |
| Target           | DCI-P3 RGB                            |
| 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     | 0.86    | 0.19    | 0.33    | 0.46      |
|  | 191 255 0       | 7.32    | 1.91    | 0.79    | 1.46      |
|  | 191 255 63      | 1.61    | 0.93    | 0.77    | 0.87      |
|  | 191 255 127     | 2.10    | 0.40    | 0.61    | 0.76      |
|  | 191 255 191     | 2.07    | 0.07    | 0.24    | 0.65      |
|  | 191 255 255     | 0.58    | 0.13    | 0.22    | 0.34      |
|  | 255 0 0         | 3.12    | 3.09    | 0.16    | 1.13      |
|  | 255 0 63        | 0.29    | 0.19    | 0.13    | 0.16      |
|  | 255 0 127       | 0.18    | 0.71    | 0.14    | 0.32      |
|  | 255 0 191       | 2.05    | 0.61    | 0.86    | 0.96      |
|  | 255 0 255       | 5.71    | 0.50    | 1.61    | 1.83      |
|  | 255 63 0        | 3.54    | 3.31    | 0.09    | 1.23      |
|  | 255 63 63       | 0.58    | 0.71    | 0.08    | 0.29      |
|  | 255 63 127      | 0.14    | 0.08    | 0.14    | 0.15      |
|  | 255 63 191      | 0.27    | 0.16    | 0.24    | 0.25      |
|  | 255 63 255      | 0.21    | 0.72    | 0.13    | 0.29      |
|  | 255 127 0       | 5.80    | 3.88    | 0.18    | 1.67      |
|  | 255 127 63      | 0.43    | 0.22    | 0.32    | 0.34      |
|  | 255 127 127     | 0.36    | 0.34    | 0.18    | 0.26      |
|  | 255 127 191     | 0.21    | 0.04    | 0.23    | 0.23      |
|  | 255 127 255     | 1.33    | 0.48    | 0.31    | 0.45      |
|  | 255 191 0       | 5.97    | 2.27    | 0.09    | 1.30      |
|  | 255 191 63      | 0.11    | 0.47    | 0.18    | 0.27      |
|  | 255 191 127     | 0.10    | 0.36    | 0.10    | 0.22      |
|  | 255 191 191     | 0.12    | 0.48    | 0.15    | 0.35      |
|  | 255 191 255     | 1.33    | 0.22    | 0.33    | 0.53      |
|  | 255 255 0       | 7.89    | 0.89    | 0.78    | 1.44      |
|  | 255 255 63      | 1.16    | 2.44    | 0.73    | 1.17      |
|  | 255 255 127     | 2.14    | 1.60    | 0.63    | 1.06      |
|  | 255 255 191     | 1.98    | 0.81    | 0.38    | 0.94      |
|  | 255 255 255 (1) | -       | -       | -       | -         |
|  | Average (2)     | 2.55    | 1.04    | 0.59    | 0.98      |
|  | Maximum (2)     | 14.38   | 7.23    | 4.21    | 5.22      |

(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  | 93%                     |

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| Testchart        | In accordance with ISO 12646:2007 (1) |
| Target           | DCI-P3 RGB                            |
| Display Profile  | Considered                            |
| Rendering Intent | Relative colorimetric                 |

(1) Five equally spaced code values for each channel

| Property             | Device adjustments |
|----------------------|--------------------|
| Backlight brightness | 7                  |
| Brightness           | 142.3              |
| Contrast             | 70                 |
| RGB Gain             | 45 48 50           |
| Gradation            |                    |
| Other                |                    |