

# Colorimetric Report

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|                  |                                         |
|------------------|-----------------------------------------|
| Date             | Monday, September 19, 2016              |
| Tester           | Oliver Jachmann                         |
| Display          | ASUS ROG Swift PG248Q                   |
| Sensor           | X-Rite i1 Display Pro (Corr.: WLED, XR) |
| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | Display Profile (Profile Quality)       |
| Display Profile  | Used as target                          |
| Rendering Intent | -                                       |

(1) Five equally spaced code values for each channel

|                                     |                          |
|-------------------------------------|--------------------------|
| White Point (CCT)                   | 6546 Kelvin              |
| White Point XYZ (normalized)        | 95.12 100.00 109.70      |
| DeltaE to D50/ D65                  | 20.04/ 0.52              |
| Assumed Target Whitepoint (2)       | 6500 Kelvin              |
| DeltaE to Assumed Target Whitepoint | 0.60                     |
| Brightness                          | 140.38 cd/m <sup>2</sup> |
| Black Point                         | 0.17 cd/m <sup>2</sup>   |
| Contrast (x:1)                      | 915:1                    |
| Gradation (Average)                 | 2.16                     |

(2) Daylight

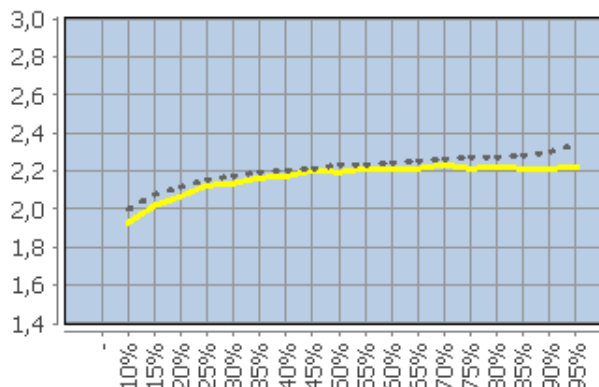
|  | Percent     | Kelvin | Delta C | Delta E (3) | Gamma |
|--|-------------|--------|---------|-------------|-------|
|  | 5           | -      | -       | -           | -     |
|  | 10          | 6771   | 0.48    | 1.46        | 1.93  |
|  | 15          | 6775   | 0.61    | 1.16        | 2.02  |
|  | 20          | 6538   | 0.06    | 0.89        | 2.07  |
|  | 25          | 6420   | 0.61    | 0.87        | 2.12  |
|  | 30          | 6671   | 0.69    | 1.04        | 2.13  |
|  | 35          | 6545   | 0.10    | 0.64        | 2.16  |
|  | 40          | 6513   | 0.18    | 0.56        | 2.17  |
|  | 45          | 6541   | 0.30    | 0.35        | 2.20  |
|  | 50          | 6542   | 0.63    | 0.89        | 2.19  |
|  | 55          | 6528   | 0.32    | 0.51        | 2.21  |
|  | 60          | 6602   | 0.54    | 0.67        | 2.21  |
|  | 65          | 6570   | 0.28    | 0.56        | 2.21  |
|  | 70          | 6588   | 0.35    | 0.42        | 2.23  |
|  | 75          | 6574   | 0.32    | 0.51        | 2.21  |
|  | 80          | 6566   | 0.16    | 0.32        | 2.22  |
|  | 85          | 6590   | 0.47    | 0.54        | 2.21  |
|  | 90          | 6550   | 0.40    | 0.46        | 2.21  |
|  | 95          | 6584   | 0.33    | 0.35        | 2.22  |
|  | 100 (4)     | 6546   | -       | -           | -     |
|  | Average (5) | -      | 0.38    | 0.68        | 2.16  |
|  | Maximum (5) | -      | 0.69    | 1.46        | -     |
|  | Range (5)   | -      | 1.3     | -           | -     |

(3) Reference: Display Profile; a\*, b\* = 0

(4) Visual adaptation to display whitepoint is assumed

(5) Only luminance > 1% considered

### Corresponding Gamma



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| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | Display Profile (Profile Quality)       |
| Display Profile  | Used as target                          |
| Rendering Intent | -                                       |

(1) Five equally spaced code values for each channel

|  | RGB        | Delta C | Delta H | Delta L | Delta E94 |
|--|------------|---------|---------|---------|-----------|
|  | 0 0 0      | 1.87    | 0.00    | 1.08    | 2.16      |
|  | 0 0 63     | 2.04    | 0.09    | 0.68    | 0.97      |
|  | 0 0 127    | 0.72    | 0.73    | 0.32    | 0.48      |
|  | 0 0 191    | 0.29    | 1.16    | 0.75    | 0.87      |
|  | 0 0 255    | 1.20    | 0.06    | 0.30    | 0.34      |
|  | 0 63 0     | 2.24    | 4.18    | 0.12    | 2.67      |
|  | 0 63 63    | 1.39    | 0.16    | 0.30    | 0.82      |
|  | 0 63 127   | 0.52    | 0.06    | 0.56    | 0.59      |
|  | 0 63 191   | 1.11    | 0.60    | 0.69    | 0.78      |
|  | 0 63 255   | 0.39    | 0.01    | 0.37    | 0.38      |
|  | 0 127 0    | 1.29    | 4.77    | 0.45    | 2.38      |
|  | 0 127 63   | 0.74    | 2.40    | 0.53    | 1.48      |
|  | 0 127 127  | 1.73    | 0.67    | 0.64    | 1.07      |
|  | 0 127 191  | 1.29    | 0.31    | 0.73    | 0.87      |
|  | 0 127 255  | 0.82    | 0.80    | 0.55    | 0.69      |
|  | 0 191 0    | 1.21    | 3.81    | 0.91    | 1.83      |
|  | 0 191 63   | 0.07    | 2.89    | 0.96    | 1.62      |
|  | 0 191 127  | 0.51    | 2.21    | 1.01    | 1.56      |
|  | 0 191 191  | 1.13    | 1.76    | 1.05    | 1.57      |
|  | 0 191 255  | 1.75    | 0.31    | 0.94    | 1.10      |
|  | 0 255 0    | 0.93    | 0.29    | 0.83    | 0.85      |
|  | 0 255 63   | 0.76    | 0.44    | 0.84    | 0.87      |
|  | 0 255 127  | 1.07    | 0.01    | 0.88    | 0.91      |
|  | 0 255 191  | 1.62    | 0.78    | 0.91    | 1.08      |
|  | 0 255 255  | 0.84    | 1.63    | 0.84    | 1.27      |
|  | 63 0 0     | 1.55    | 1.25    | 1.73    | 2.02      |
|  | 63 0 63    | 2.30    | 2.21    | 1.41    | 2.10      |
|  | 63 0 127   | 1.98    | 1.69    | 0.48    | 1.03      |
|  | 63 0 191   | 0.93    | 1.59    | 0.13    | 0.64      |
|  | 63 0 255   | 1.89    | 0.37    | 0.08    | 0.30      |
|  | 63 63 0    | 4.76    | 0.75    | 0.44    | 1.92      |
|  | 63 63 63   | 0.50    | 0.06    | 0.37    | 0.63      |
|  | 63 63 127  | 0.49    | 0.73    | 0.09    | 0.49      |
|  | 63 63 191  | 0.04    | 0.87    | 0.15    | 0.42      |
|  | 63 63 255  | 0.52    | 0.18    | 0.06    | 0.12      |
|  | 63 127 0   | 2.28    | 3.63    | 0.21    | 1.94      |
|  | 63 127 63  | 0.61    | 1.43    | 0.20    | 0.91      |
|  | 63 127 127 | 1.00    | 0.35    | 0.04    | 0.57      |
|  | 63 127 191 | 0.01    | 0.53    | 0.06    | 0.34      |
|  | 63 127 255 | 0.37    | 0.91    | 0.06    | 0.44      |
|  | 63 191 0   | 1.34    | 3.11    | 0.17    | 1.35      |
|  | 63 191 63  | 0.00    | 1.87    | 0.21    | 0.89      |
|  | 63 191 127 | 0.71    | 1.05    | 0.26    | 0.67      |
|  | 63 191 191 | 0.91    | 0.46    | 0.33    | 0.56      |
|  | 63 191 255 | 0.77    | 0.49    | 0.23    | 0.44      |
|  | 63 255 0   | 0.73    | 0.64    | 0.35    | 0.44      |
|  | 63 255 63  | 0.45    | 1.03    | 0.35    | 0.54      |

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| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | Display Profile (Profile Quality)       |
| Display Profile  | Used as target                          |
| Rendering Intent | -                                       |

(1) Five equally spaced code values for each channel

|  | RGB         | Delta C | Delta H | Delta L | Delta E94 |
|--|-------------|---------|---------|---------|-----------|
|  | 63 255 127  | 0.82    | 0.83    | 0.38    | 0.56      |
|  | 63 255 191  | 1.43    | 0.16    | 0.42    | 0.57      |
|  | 63 255 255  | 0.88    | 0.70    | 0.35    | 0.61      |
|  | 127 0 0     | 3.74    | 4.10    | 0.84    | 2.49      |
|  | 127 0 63    | 0.10    | 1.79    | 1.02    | 1.44      |
|  | 127 0 127   | 1.39    | 2.45    | 0.67    | 1.42      |
|  | 127 0 191   | 1.45    | 1.93    | 0.26    | 0.87      |
|  | 127 0 255   | 2.18    | 0.88    | 0.35    | 0.56      |
|  | 127 63 0    | 5.68    | 2.70    | 0.37    | 2.29      |
|  | 127 63 63   | 0.23    | 0.03    | 0.51    | 0.52      |
|  | 127 63 127  | 0.09    | 1.24    | 0.37    | 0.83      |
|  | 127 63 191  | 0.08    | 1.08    | 0.14    | 0.52      |
|  | 127 63 255  | 0.69    | 0.55    | 0.29    | 0.38      |
|  | 127 127 0   | 4.26    | 2.15    | 0.29    | 1.64      |
|  | 127 127 63  | 0.63    | 1.01    | 0.39    | 0.79      |
|  | 127 127 127 | 0.54    | 0.07    | 0.27    | 0.61      |
|  | 127 127 191 | 0.34    | 0.01    | 0.17    | 0.21      |
|  | 127 127 255 | 0.75    | 0.36    | 0.28    | 0.38      |
|  | 127 191 0   | 2.44    | 2.71    | 0.06    | 1.30      |
|  | 127 191 63  | 0.75    | 1.45    | 0.00    | 0.73      |
|  | 127 191 127 | 0.03    | 0.68    | 0.07    | 0.43      |
|  | 127 191 191 | 0.29    | 0.32    | 0.09    | 0.30      |
|  | 127 191 255 | 0.26    | 0.32    | 0.00    | 0.22      |
|  | 127 255 0   | 0.92    | 0.51    | 0.25    | 0.35      |
|  | 127 255 63  | 0.66    | 1.26    | 0.22    | 0.57      |
|  | 127 255 127 | 0.96    | 1.27    | 0.24    | 0.67      |
|  | 127 255 191 | 1.53    | 0.55    | 0.26    | 0.61      |
|  | 127 255 255 | 1.32    | 0.66    | 0.20    | 0.68      |
|  | 191 0 0     | 4.35    | 4.61    | 0.42    | 2.24      |
|  | 191 0 63    | 0.25    | 0.97    | 0.68    | 0.84      |
|  | 191 0 127   | 0.38    | 2.50    | 0.54    | 1.32      |
|  | 191 0 191   | 1.04    | 2.31    | 0.33    | 1.04      |
|  | 191 0 255   | 1.81    | 1.55    | 0.42    | 0.75      |
|  | 191 63 0    | 4.51    | 3.30    | 0.26    | 1.85      |
|  | 191 63 63   | 0.01    | 0.12    | 0.48    | 0.48      |
|  | 191 63 127  | 0.32    | 1.14    | 0.42    | 0.75      |
|  | 191 63 191  | 0.09    | 1.25    | 0.28    | 0.64      |
|  | 191 63 255  | 0.67    | 0.90    | 0.43    | 0.56      |
|  | 191 127 0   | 4.61    | 0.06    | 0.29    | 1.15      |
|  | 191 127 63  | 1.03    | 0.21    | 0.44    | 0.56      |
|  | 191 127 127 | 0.19    | 0.56    | 0.39    | 0.56      |
|  | 191 127 191 | 0.39    | 0.45    | 0.32    | 0.44      |
|  | 191 127 255 | 0.82    | 0.07    | 0.41    | 0.46      |
|  | 191 191 0   | 3.14    | 1.71    | 0.01    | 1.03      |
|  | 191 191 63  | 1.21    | 0.59    | 0.13    | 0.45      |
|  | 191 191 127 | 0.03    | 0.22    | 0.10    | 0.18      |
|  | 191 191 191 | 0.21    | 0.12    | 0.06    | 0.25      |

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| Tester           | Oliver Jachmann                         |
| Display          | ASUS ROG Swift PG248Q                   |
| Sensor           | X-Rite i1 Display Pro (Corr.: WLED, XR) |
| Testchart        | In accordance with ISO 12646:2007 (1)   |
| Target           | Display Profile (Profile Quality)       |
| Display Profile  | Used as target                          |
| Rendering Intent | -                                       |

(1) Five equally spaced code values for each channel

|  | RGB             | Delta C | Delta H | Delta L | Delta E94 |
|--|-----------------|---------|---------|---------|-----------|
|  | 191 191 255     | 0.12    | 0.19    | 0.15    | 0.20      |
|  | 191 255 0       | 0.80    | 0.49    | 0.19    | 0.30      |
|  | 191 255 63      | 0.34    | 1.41    | 0.11    | 0.60      |
|  | 191 255 127     | 0.47    | 1.63    | 0.12    | 0.83      |
|  | 191 255 191     | 1.19    | 1.17    | 0.14    | 0.86      |
|  | 191 255 255     | 1.48    | 0.51    | 0.07    | 0.86      |
|  | 255 0 0         | 0.12    | 0.09    | 0.13    | 0.13      |
|  | 255 0 63        | 0.73    | 1.82    | 0.20    | 0.80      |
|  | 255 0 127       | 0.14    | 2.16    | 0.31    | 1.00      |
|  | 255 0 191       | 0.41    | 1.78    | 0.47    | 0.88      |
|  | 255 0 255       | 1.12    | 1.04    | 0.36    | 0.55      |
|  | 255 63 0        | 0.87    | 0.03    | 0.12    | 0.20      |
|  | 255 63 63       | 0.27    | 1.10    | 0.18    | 0.52      |
|  | 255 63 127      | 0.00    | 0.96    | 0.29    | 0.54      |
|  | 255 63 191      | 0.16    | 0.53    | 0.38    | 0.45      |
|  | 255 63 255      | 0.55    | 0.13    | 0.24    | 0.27      |
|  | 255 127 0       | 2.13    | 1.02    | 0.17    | 0.63      |
|  | 255 127 63      | 0.72    | 1.68    | 0.12    | 0.82      |
|  | 255 127 127     | 1.03    | 1.37    | 0.03    | 0.81      |
|  | 255 127 191     | 1.38    | 0.23    | 0.05    | 0.41      |
|  | 255 127 255     | 1.56    | 0.48    | 0.04    | 0.41      |
|  | 255 191 0       | 1.52    | 1.63    | 0.13    | 0.78      |
|  | 255 191 63      | 0.32    | 1.92    | 0.10    | 0.92      |
|  | 255 191 127     | 0.16    | 1.75    | 0.04    | 1.04      |
|  | 255 191 191     | 1.28    | 0.81    | 0.02    | 0.84      |
|  | 255 191 255     | 1.47    | 0.84    | 0.04    | 0.75      |
|  | 255 255 0       | 0.96    | 0.16    | 0.11    | 0.21      |
|  | 255 255 63      | 1.39    | 0.22    | 0.12    | 0.32      |
|  | 255 255 127     | 1.10    | 0.30    | 0.17    | 0.36      |
|  | 255 255 191     | 0.46    | 0.28    | 0.19    | 0.32      |
|  | 255 255 255 (1) | -       | -       | -       | -         |
|  | Average (2)     | 1.09    | 1.11    | 0.36    | 0.83      |
|  | Maximum (2)     | 5.68    | 4.77    | 1.73    | 2.67      |

(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                     | 97%                     |
| AdobeRGB                 | 69%                     |
| ECI-RGB v2               | 61%                     |
| ISO Coated v2 (FOGRA39L) | 89%                     |

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| Rendering Intent | -                                       |

(1) Five equally spaced code values for each channel

| Property             | Device adjustments |
|----------------------|--------------------|
| Backlight brightness |                    |
| Brightness           | 31                 |
| Contrast             | 50                 |
| RGB Gain             | 100 91 92          |
| Gradation            | Gamma 2.2          |
| Other                |                    |