

# Colorimetric Report

## Page (1/5)



CCalc 2.0  
Copyright © 2011, Denis Freund  
All Rights Reserved  
licensed for PRAD ProAdviser

|                  |                       |
|------------------|-----------------------|
| Test Device      | Philips_241P4LRY      |
| Target           | sRGB                  |
| Display Profile  | considered            |
| Rendering Intent | Relative colorimetric |

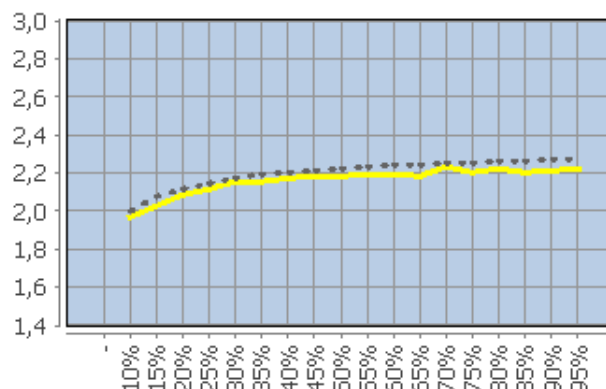
|                                     |                    |
|-------------------------------------|--------------------|
| White Point / CCT Kelvin            | 6531K              |
| White Point XYZ (normalized)        | 94.91 100.0 109.08 |
| DeltaE to D50/ D65                  | 19.67/ 0.27        |
| DeltaE to Blackbody Curve *         | 0.19               |
| Assumed Target Whitepoint           | 6500K              |
| DeltaE to Assumed Target Whitepoint | 0.27               |
| Brightness / cd/m <sup>2</sup> **   | 134.4              |
| Black Point / cd/m <sup>2</sup> **  | 0.133              |
| Contrast / x:1                      | 1011:1             |
| Gradation (Average)                 | 2.16               |

\* Based on CCT \*\* Measured with X-Rite DTP94 or comparable probe

|  | Percent | Kelvin | deltaC | deltaE | Gamma |
|--|---------|--------|--------|--------|-------|
|  | 5       | -      | -      | -      | -     |
|  | 10      | 6292   | 0.52   | 1.05   | 1.97  |
|  | 15      | 6278   | 0.59   | 0.97   | 2.03  |
|  | 20      | 6524   | 0.41   | 0.83   | 2.08  |
|  | 25      | 6508   | 0.5    | 1.0    | 2.11  |
|  | 30      | 6476   | 0.21   | 0.74   | 2.15  |
|  | 35      | 6458   | 0.31   | 0.64   | 2.15  |
|  | 40      | 6514   | 0.45   | 0.75   | 2.17  |
|  | 45      | 6515   | 0.11   | 0.75   | 2.18  |
|  | 50      | 6484   | 0.28   | 0.93   | 2.18  |
|  | 55      | 6536   | 0.08   | 0.55   | 2.19  |
|  | 60      | 6514   | 0.28   | 0.68   | 2.19  |
|  | 65      | 6534   | 0.18   | 0.94   | 2.18  |
|  | 70      | 6540   | 0.14   | 0.43   | 2.23  |
|  | 75      | 6526   | 0.18   | 0.45   | 2.2   |
|  | 80      | 6518   | 0.59   | 0.69   | 2.22  |
|  | 85      | 6526   | 0.37   | 0.55   | 2.2   |
|  | 90      | 6519   | 0.39   | 0.54   | 2.21  |
|  | 95      | 6517   | 0.18   | 0.18   | 2.22  |
|  | 100     | 6531   | -      | -      | -     |
|  | Average | -      | 0.32*  | 0.7*   | 2.16  |
|  | Maximum | -      | 0.59*  | 1.05*  | -     |
|  | Range   | -      | 1.08*  | -      | -     |

\* Only luminance > 1% considered  
Without Black Point Compensation

Corresponding Gamma



# Colorimetric Report

## Page (2/5)



CCalc 2.0  
Copyright © 2011, Denis Freund  
All Rights Reserved  
licensed for PRAD ProAdviser

|                  |                       |
|------------------|-----------------------|
| Test Device      | Philips_241P4LRY      |
| Target           | sRGB                  |
| Display Profile  | considered            |
| Rendering Intent | Relative colorimetric |

|  | RGB        | deltaC | deltaH | deltaL | deltaE94 |
|--|------------|--------|--------|--------|----------|
|  | 255 0 0    | 6.43   | 0.25   | 4.14   | 4.29     |
|  | 0 255 0    | 6.15   | 8.14   | 1.27   | 3.32     |
|  | 0 0 255    | 1.89   | 2.37   | 1.33   | 1.57     |
|  | 0 255 255  | 9.79   | 0.71   | 1.47   | 3.37     |
|  | 255 0 255  | 0.62   | 4.19   | 2.39   | 2.85     |
|  | 255 255 0  | 1.06   | 2.58   | 0.02   | 1.07     |
|  | 170 85 85  | 1.09   | 0.09   | 1.04   | 1.12     |
|  | 85 170 85  | 1.21   | 2.33   | 0.38   | 1.36     |
|  | 85 85 170  | 0.6    | 0.77   | 0.14   | 0.49     |
|  | 85 170 170 | 1.52   | 1.03   | 0.13   | 1.02     |
|  | 170 85 170 | 1.05   | 1.2    | 0.63   | 0.96     |
|  | 170 170 85 | 0.68   | 0.62   | 0.84   | 0.94     |
|  | 229 0 0    | 0.56   | 0.68   | 0.29   | 0.41     |
|  | 204 0 0    | 1.18   | 2.7    | 0.24   | 1.21     |
|  | 178 0 0    | 2.55   | 4.97   | 0.23   | 2.34     |
|  | 153 0 0    | 2.83   | 5.65   | 0.44   | 2.85     |
|  | 127 0 0    | 1.55   | 4.16   | 0.47   | 2.27     |
|  | 102 0 0    | 0.75   | 3.14   | 0.76   | 1.96     |
|  | 76 0 0     | 0.7    | 2.41   | 0.83   | 1.75     |
|  | 0 229 0    | 6.55   | 4.77   | 0.06   | 2.11     |
|  | 0 204 0    | 6.92   | 3.09   | 0.47   | 1.81     |
|  | 0 178 0    | 5.11   | 2.6    | 0.16   | 1.49     |
|  | 0 153 0    | 4.51   | 2.1    | 0.1    | 1.35     |
|  | 0 127 0    | 4.58   | 1.28   | 0.19   | 1.26     |
|  | 0 102 0    | 3.05   | 1.84   | 0.03   | 1.26     |
|  | 0 76 0     | 1.99   | 1.67   | 0.01   | 1.13     |
|  | 0 0 229    | 0.06   | 3.39   | 0.7    | 1.38     |
|  | 0 0 204    | 1.14   | 3.56   | 0.37   | 1.38     |
|  | 0 0 178    | 0.92   | 3.19   | 0.57   | 1.39     |
|  | 0 0 153    | 0.52   | 3.18   | 0.25   | 1.37     |
|  | 0 0 127    | 3.32   | 3.96   | 0.59   | 2.03     |
|  | 0 0 102    | 4.37   | 4.16   | 0.76   | 2.44     |
|  | 0 0 76     | 2.18   | 3.14   | 0.09   | 1.86     |
|  | 0 229 229  | 8.24   | 2.62   | 0.18   | 3.1      |
|  | 0 204 204  | 7.25   | 3.43   | 0.18   | 3.27     |
|  | 0 178 178  | 6.23   | 3.13   | 0.14   | 3.04     |
|  | 0 153 153  | 5.49   | 2.54   | 0.17   | 2.74     |
|  | 0 127 127  | 4.81   | 2.46   | 0.0    | 2.67     |
|  | 0 102 102  | 3.97   | 1.88   | 0.2    | 2.3      |
|  | 0 76 76    | 3.18   | 0.85   | 0.36   | 1.8      |
|  | 229 0 229  | 0.35   | 1.31   | 0.02   | 0.51     |
|  | 204 0 204  | 0.53   | 1.82   | 0.54   | 0.92     |
|  | 178 0 178  | 1.11   | 2.04   | 0.73   | 1.17     |
|  | 153 0 153  | 0.22   | 2.62   | 0.91   | 1.51     |
|  | 127 0 127  | 0.69   | 2.35   | 0.9    | 1.47     |
|  | 102 0 102  | 1.98   | 2.18   | 0.56   | 1.39     |
|  | 76 0 76    | 1.97   | 1.61   | 0.07   | 1.13     |

# Colorimetric Report

## Page (3/5)



CCalc 2.0  
 Copyright © 2011, Denis Freund  
 All Rights Reserved  
 licensed for PRAD ProAdviser

|                  |                       |
|------------------|-----------------------|
| Test Device      | Philips_241P4LRY      |
| Target           | sRGB                  |
| Display Profile  | considered            |
| Rendering Intent | Relative colorimetric |

|  | RGB         | deltaC | deltaH | deltaL | deltaE94 |
|--|-------------|--------|--------|--------|----------|
|  | 229 229 0   | 0.58   | 0.88   | 0.3    | 0.49     |
|  | 204 204 0   | 1.26   | 0.74   | 0.25   | 0.49     |
|  | 178 178 0   | 1.31   | 1.33   | 0.51   | 0.87     |
|  | 153 153 0   | 1.12   | 1.43   | 0.69   | 1.03     |
|  | 127 127 0   | 2.41   | 1.21   | 0.68   | 1.15     |
|  | 102 102 0   | 2.01   | 0.55   | 0.47   | 0.84     |
|  | 76 76 0     | 0.45   | 0.88   | 0.61   | 0.83     |
|  | 255 25 25   | 6.07   | 1.3    | 3.79   | 3.98     |
|  | 255 51 51   | 7.24   | 0.36   | 3.28   | 3.59     |
|  | 255 76 76   | 7.55   | 0.21   | 2.91   | 3.36     |
|  | 255 102 102 | 8.01   | 0.2    | 2.28   | 3.05     |
|  | 255 127 127 | 7.86   | 0.73   | 1.67   | 2.87     |
|  | 255 153 153 | 6.95   | 0.93   | 1.34   | 2.83     |
|  | 255 178 178 | 6.07   | 0.6    | 0.81   | 2.72     |
|  | 255 204 204 | 4.2    | 0.23   | 0.8    | 2.39     |
|  | 255 229 229 | 2.57   | 0.19   | 0.48   | 1.87     |
|  | 25 255 25   | 5.7    | 7.51   | 1.2    | 3.11     |
|  | 51 255 51   | 4.62   | 5.63   | 0.9    | 2.42     |
|  | 76 255 76   | 2.49   | 3.01   | 0.92   | 1.56     |
|  | 102 255 102 | 0.42   | 0.06   | 0.42   | 0.43     |
|  | 127 255 127 | 0.61   | 0.11   | 0.41   | 0.43     |
|  | 153 255 153 | 0.74   | 0.7    | 0.48   | 0.63     |
|  | 178 255 178 | 1.46   | 0.92   | 0.41   | 0.81     |
|  | 204 255 204 | 1.49   | 0.98   | 0.37   | 0.97     |
|  | 229 255 229 | 1.41   | 1.17   | 0.32   | 1.28     |
|  | 25 25 255   | 0.47   | 2.28   | 0.55   | 0.96     |
|  | 51 51 255   | 0.84   | 0.87   | 0.24   | 0.42     |
|  | 76 76 255   | 0.12   | 0.08   | 0.13   | 0.13     |
|  | 102 102 255 | 0.34   | 0.3    | 0.27   | 0.31     |
|  | 127 127 255 | 0.85   | 0.3    | 0.38   | 0.46     |
|  | 153 153 255 | 1.27   | 0.49   | 0.76   | 0.89     |
|  | 178 178 255 | 0.75   | 0.06   | 0.67   | 0.72     |
|  | 204 204 255 | 0.45   | 0.3    | 0.4    | 0.5      |
|  | 229 229 255 | 0.7    | 0.01   | 0.33   | 0.55     |
|  | 25 255 255  | 9.08   | 0.38   | 1.42   | 3.16     |
|  | 51 255 255  | 7.57   | 0.37   | 1.18   | 2.68     |
|  | 76 255 255  | 5.13   | 0.4    | 0.78   | 1.87     |
|  | 102 255 255 | 1.43   | 0.27   | 0.21   | 0.56     |
|  | 127 255 255 | 0.36   | 0.16   | 0.09   | 0.19     |
|  | 153 255 255 | 0.91   | 0.2    | 0.2    | 0.45     |
|  | 178 255 255 | 1.34   | 0.21   | 0.27   | 0.71     |
|  | 204 255 255 | 1.39   | 0.02   | 0.41   | 0.89     |
|  | 229 255 255 | 1.5    | 0.07   | 0.34   | 1.13     |

# Colorimetric Report

## Page (4/5)



CCalc 2.0  
Copyright © 2011, Denis Freund  
All Rights Reserved  
licensed for PRAD ProAdviser

|                  |                       |
|------------------|-----------------------|
| Test Device      | Philips_241P4LRY      |
| Target           | sRGB                  |
| Display Profile  | considered            |
| Rendering Intent | Relative colorimetric |

|  | RGB         | deltaC | deltaH | deltaL | deltaE94 |
|--|-------------|--------|--------|--------|----------|
|  | 255 25 255  | 0.74   | 4.15   | 2.34   | 2.8      |
|  | 255 51 255  | 0.81   | 4.38   | 2.14   | 2.71     |
|  | 255 76 255  | 1.75   | 4.32   | 1.82   | 2.52     |
|  | 255 102 255 | 2.31   | 4.1    | 1.66   | 2.45     |
|  | 255 127 255 | 3.18   | 4.11   | 1.12   | 2.31     |
|  | 255 153 255 | 2.96   | 3.9    | 0.9    | 2.33     |
|  | 255 178 255 | 3.19   | 3.51   | 0.48   | 2.32     |
|  | 255 204 255 | 2.28   | 2.79   | 0.46   | 2.15     |
|  | 255 229 255 | 1.77   | 1.73   | 0.29   | 1.75     |
|  | 255 255 25  | 1.02   | 2.58   | 0.01   | 1.08     |
|  | 255 255 51  | 0.72   | 2.32   | 0.04   | 1.0      |
|  | 255 255 76  | 0.36   | 2.3    | 0.06   | 1.03     |
|  | 255 255 102 | 0.6    | 2.04   | 0.02   | 0.98     |
|  | 255 255 127 | 0.08   | 1.81   | 0.04   | 0.94     |
|  | 255 255 153 | 0.11   | 1.37   | 0.11   | 0.79     |
|  | 255 255 178 | 0.19   | 0.96   | 0.06   | 0.62     |
|  | 255 255 204 | 0.12   | 0.43   | 0.21   | 0.38     |
|  | 255 255 229 | 0.58   | 0.03   | 0.15   | 0.4      |
|  | 213 255 0   | 0.12   | 0.61   | 0.66   | 0.7      |
|  | 159 191 0   | 1.01   | 1.77   | 0.52   | 0.98     |
|  | 106 128 0   | 1.06   | 1.98   | 0.53   | 1.21     |
|  | 0 255 85    | 6.67   | 7.85   | 1.65   | 3.66     |
|  | 0 191 64    | 6.28   | 2.58   | 0.39   | 1.8      |
|  | 0 128 42    | 4.14   | 1.3    | 0.06   | 1.29     |
|  | 0 128 255   | 0.61   | 4.86   | 0.47   | 2.37     |
|  | 0 96 191    | 1.5    | 5.16   | 0.16   | 2.8      |
|  | 0 64 128    | 0.06   | 3.38   | 0.41   | 2.12     |
|  | 170 0 255   | 0.53   | 1.64   | 0.85   | 1.03     |
|  | 127 0 191   | 0.26   | 2.42   | 0.56   | 1.13     |
|  | 85 0 128    | 0.52   | 2.24   | 0.23   | 1.11     |
|  | 255 0 42    | 6.22   | 0.67   | 3.97   | 4.15     |
|  | 191 0 32    | 0.59   | 1.75   | 0.62   | 1.03     |
|  | 128 0 21    | 0.86   | 2.01   | 0.79   | 1.37     |
|  | 170 85 0    | 1.36   | 0.55   | 0.73   | 0.86     |
|  | 0 170 85    | 5.76   | 1.79   | 0.05   | 1.72     |
|  | 85 0 170    | 1.19   | 1.83   | 0.0    | 0.8      |
|  | 0 85 170    | 1.2    | 4.7    | 0.19   | 2.65     |
|  | 170 0 85    | 1.87   | 1.04   | 0.8    | 1.08     |
|  | 85 170 0    | 0.48   | 3.34   | 0.32   | 1.55     |
|  | 123 127 127 | 0.04   | 0.03   | 0.54   | 0.54     |
|  | 127 123 127 | 0.32   | 0.14   | 0.6    | 0.68     |
|  | 127 127 123 | 0.29   | 0.18   | 0.67   | 0.74     |
|  | Average     | 2.41   | 1.97   | 0.67   | 1.6      |
|  | Maximum     | 9.79   | 8.14   | 4.14   | 4.29     |

# Colorimetric Report

## Page (5/5)



CCalc 2.0  
Copyright © 2011, Denis Freund  
All Rights Reserved  
licensed for PRAD ProAdviser

|                  |                       |
|------------------|-----------------------|
| Test Device      | Philips_241P4LRY      |
| Target           | sRGB                  |
| Display Profile  | considered            |
| Rendering Intent | Relative colorimetric |

| Property             | Device adjustments |
|----------------------|--------------------|
| Backlight brightness |                    |
| Brightness           | 39                 |
| Contrast             | 50                 |
| RGB Gain             | 94 100 93          |
| Gradation            | 2.2                |
| Other                | kal iColor 3.7.5   |