

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

|                                  |  |
|----------------------------------|--|
| HP Color LaserJet Flow MFP M776Z |  |
|                                  |  |

| Printing device and settings |                          |                                  |
|------------------------------|--------------------------|----------------------------------|
|                              | Test Start Date and Time | 12/5/2019 23:16                  |
|                              | Tester                   | AW                               |
|                              | Machine name/model       | HP Color LaserJet Flow MFP M776Z |
|                              | Colour or B&W            | Colour                           |
|                              | FW Version               | 2409048_052886                   |
|                              | Temperature and Humidity | 75 degF / 24 degC 42.0 %rH       |
|                              | Voltage                  | 110V                             |
|                              | Test End Date and Time   | 1/14/2020 1:00                   |

|                  | Item                    | Value                                   |
|------------------|-------------------------|---|
| Mode and Setting | Driver Version          | 6.7.0.23989                             |
|                  | Media/Quality Setting   | Default / Default                       |
|                  | Simplex B&W Settings    | Print in Grayscale                      |
|                  | Duplex B&W Settings     | Print in Grayscale                      |
|                  | Setting N set count     | Not Specified                           |
|                  | Collating function      | Not Specified                           |
| Paper Path       | Paper Sending Direction | Default                                 |
|                  | Paper Size Setting      | Default                                 |
|                  | Paper Feeding           | Tray 2                                  |
|                  | Paper Exit              | Standard Exit Tray                      |
|                  | Output Orientation      | Default (face down)                     |
|                  | Duplexing Unit (Yes/No) | Yes                                     |
| Paper            | Paper Manufacturer      | HP                                      |
|                  | Paper Weight            | 20lb / 75 g/m2                          |
|                  | Paper Size              | Letter / A4                             |
|                  | Paper type/name         | HP Multipurpose Ultra White / HP Office |

|  |         |                |            |
|--|---------|----------------|------------|
| Summary Report: Letter   |         |                |            |
| Office Category Test for Color Device  |         | FSOT (seconds) | ESAT (ipm) |
| Color  | Simplex | 11.06          | 45.42      |
|  | Duplex  | 14.20          | 48.09      |
| B&W  | Simplex | 11.19          | 45.53      |
|  | Duplex  | 13.65          | 48.12      |
| <div>Notes</div> <div>1) All printing device and driver settings were default mode.</div> <div>2) For the B/W results, the print driver was set to "print in B/W".</div> <div>3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a>.</div> <div>4) Port monitor not configured to follow device if the IP address changes.</div> |         |                |            |

| Detailed Report: LETTER  |                        |                    |                    |                           |                          |               |
|--|------------------------|--------------------|--------------------|---------------------------|--------------------------|---------------|
|  |                        |                    |                    |                           |                          |               |
|  | Office Category Test   | FSOT (secs)        | EFTP (ipm)         |                           |                          | ESAT (ipm)    |
|  |                        | 1 set only (1 set) | 1 set only (1 set) | 1 set + 30sec (# of sets) | 1 set + 4min (# of sets) | 1 set + 30sec |
| Color Mode   | Simplex - Adobe Reader | 11.07              | 21.68<br>( 1 set ) | 40.00<br>( 8 sets )       | 43.03<br>( 49 sets )     | 45.25         |
|  | Simplex - Word         | 11.23              | 21.36<br>( 1 set ) | 39.25<br>( 8 sets )       |                          | 45.50         |
|  | Simplex - Excel        | 10.88              | 22.07<br>( 1 set ) | 39.82<br>( 8 sets )       |                          | 45.51         |
|  | Simplex - Average      | 11.06              | 21.70              | 39.69                     | 43.03                    | 45.42         |
|  | Duplex - Adobe Reader  | 13.80              | 17.38<br>( 1 set ) | 37.90<br>( 8 sets )       |                          | 48.08         |
|  | Duplex - Word          | 14.74              | 16.28<br>( 1 set ) | 37.40<br>( 8 sets )       |                          | 48.08         |
|  | Duplex - Excel         | 14.04              | 17.08<br>( 1 set ) | 37.62<br>( 8 sets )       |                          | 48.12         |
|  | Duplex - Average       | 14.20              | 16.91              | 37.64                     |                          | 48.09         |
| B&W mode<br><br>(optional for color device)  | Simplex - Adobe Reader | 11.70              | 20.51<br>( 1 set ) | 40.58<br>( 8 sets )       | 41.27<br>( 46 sets )     | 45.50         |
|  | Simplex - Word         | 10.55              | 22.75<br>( 1 set ) | 40.39<br>( 9 sets )       |                          | 45.47         |
|  | Simplex - Excel        | 11.30              | 21.25<br>( 1 set ) | 40.17<br>( 8 sets )       |                          | 45.63         |
|  | Simplex - Average      | 11.19              | 21.50              | 40.38                     | 41.3                     | 45.53         |
|  | Duplex - Adobe Reader  | 13.92              | 17.24<br>( 1 set ) | 38.38<br>( 8 sets )       |                          | 48.16         |
|  | Duplex - Word          | 13.55              | 17.70<br>( 1 set ) | 38.00<br>( 8 sets )       |                          | 48.04         |
|  | Duplex - Excel         | 13.46              | 17.82<br>( 1 set ) | 38.12<br>( 8 sets )       |                          | 48.18         |
|  | Duplex - Average       | 13.65              | 17.58              | 38.16                     |                          | 48.12         |
| <div>Notes</div> <div>1) All printing device and driver settings were default mode.</div> <div>2) For the B/W results, the print driver was set to "print in B/W".</div> <div>3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a>.</div> <div>4) Port monitor not configured to follow device if the IP address changes.</div> |                        |                    |                    |                           |                          |               |

| Test System Parameters  |  |
|-------------------------|--|
| Item                    | Value  |
| Computer                | HP Z240 SFF Workstation  |
| Processor               | Intel Core i7 -6770, 3.4 GHz   |
| System Chip Set         | Intel SKL/KBL Mobile/Desktop   |
| System Board            | system devices, default system BIOS  |
| System Memory           | 8 GB   |
| Hard Drive Subsystem    | Turbo Drive G2 256GB PCIe SSD  |
| Video Subsystem         | Microsoft Basic Display Adaptor  |
| Optical Drive           | HP HLDS DVDRW GUD1N  |
| I/O Subsystem           | Builtin  |
| USB Subsystem           | USB 2.0/3.0  |
| TCP/IP                  | 10/1000  |
| Operating System        | Win 10 Enterprise 64 Bit (10240)   |
| Printing Applications   | Microsoft Office Word 2016<br>Acrobat Reader DC<br>Microsoft Office Excel 2016 |
| Print Driver            | Not Specified  |
| Test files and location | Office category files, hard drive  |

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Full Detailed Test Report - A4

|                                  |  |
|----------------------------------|--|
| HP Color LaserJet Flow MFP M776Z |  |
|                                  |  |

| Printing device and settings |                          |                                  |
|------------------------------|--------------------------|----------------------------------|
|                              | Test Start Date and Time | 12/5/2019 23:16                  |
|                              | Tester                   | AW                               |
|                              | Machine name/model       | HP Color LaserJet Flow MFP M776Z |
|                              | Colour or B&W            | Colour                           |
|                              | FW Version               | 2409048_052886                   |
|                              | Temperature and Humidity | 75 degF / 24 degC 42.0 %rH       |
|                              | Voltage                  | 110V                             |
|                              | Test End Date and Time   | 1/14/2020 1:00                   |

|                  | Item                    | Value                                   |
|------------------|-------------------------|---|
| Mode and Setting | Driver Version          | 6.7.0.23989                             |
|                  | Media/Quality Setting   | Default / Default                       |
|                  | Simplex B&W Settings    | Print in Grayscale                      |
|                  | Duplex B&W Settings     | Print in Grayscale                      |
|                  | Setting N set count     | Not Specified                           |
|                  | Collating function      | Not Specified                           |
| Paper Path       | Paper Sending Direction | Default                                 |
|                  | Paper Size Setting      | Default                                 |
|                  | Paper Feeding           | Tray 2                                  |
|                  | Paper Exit              | Standard Exit Tray                      |
|                  | Output Orientation      | Default (face down)                     |
|                  | Duplexing Unit (Yes/No) | Yes                                     |
| Paper            | Paper Manufacturer      | HP                                      |
|                  | Paper Weight            | 20lb / 75 g/m2                          |
|                  | Paper Size              | Letter / A4                             |
|                  | Paper type/name         | HP Multipurpose Ultra White / HP Office |

|  |         |                |            |
|--|---------|----------------|------------|
| Summary Report: A4   |         |                |            |
| Office Category Test for Color Device  |         | FSOT (seconds) | ESAT (ipm) |
| Colour   | Simplex | 11.14          | 46.61      |
|  | Duplex  | 14.35          | 49.10      |
| B&W  | Simplex | 10.57          | 46.57      |
|  | Duplex  | 13.63          | 49.07      |
| Notes<br>1) All printing device and driver settings were default mode.<br>2) For the B/W results, the print driver was set to "print in B/W".<br>3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .<br>4) Port monitor not configured to follow device if the IP address changes. |         |                |            |

| Detailed Report: A4  |                        |                                      |   |                     |                      |                             |
|--|------------------------|--------------------------------------|---|---------------------|----------------------|-----------------------------|
|  | Office Category Test   | FSOT (secs)<br>1 set only<br>(1 set) | EFTP (ipm)<br>1 set only (1 set)    1 set + 30sec (# of sets)    1 set + 4min (# of sets) |                     |                      | ESAT (ipm)<br>1 set + 30sec |
| Colour Mode  | Simplex - Adobe Reader | 10.38                                | 23.15<br>( 1 set )  | 40.58<br>( 8 sets ) | 43.51<br>( 50 sets ) | 46.61                       |
|  | Simplex - Word         | 11.12                                | 21.58<br>( 1 set )  | 39.90<br>( 8 sets ) |                      | 46.62                       |
|  | Simplex - Excel        | 11.90                                | 20.16<br>( 1 set )  | 40.46<br>( 8 sets ) |                      | 46.60                       |
|  | Simplex - Average      | 11.14                                | 21.63   | 40.31               | 43.51                | 46.61                       |
|  | Duplex - Adobe Reader  | 14.08                                | 17.04<br>( 1 set )  | 36.98<br>( 8 sets ) |                      | 49.08                       |
|  | Duplex - Word          | 14.34                                | 16.72<br>( 1 set )  | 36.90<br>( 8 sets ) |                      | 49.12                       |
|  | Duplex - Excel         | 14.62                                | 16.42<br>( 1 set )  | 37.88<br>( 8 sets ) |                      | 49.12                       |
|  | Duplex - Average       | 14.4                                 | 16.72   | 37.25               |                      | 49.10                       |
| B&W mode<br><br>(optional for color device)  | Simplex - Adobe Reader | 10.25                                | 23.41<br>( 1 set )  | 41.57<br>( 8 sets ) | 43.32<br>( 50 sets ) | 46.59                       |
|  | Simplex - Word         | 10.71                                | 22.42<br>( 1 set )  | 40.87<br>( 8 sets ) |                      | 46.57                       |
|  | Simplex - Excel        | 10.73                                | 22.37<br>( 1 set )  | 41.04<br>( 8 sets ) |                      | 46.57                       |
|  | Simplex - Average      | 10.6                                 | 22.73   | 41.16               | 43.3                 | 46.57                       |
|  | Duplex - Adobe Reader  | 13.38                                | 17.92<br>( 1 set )  | 39.20<br>( 8 sets ) |                      | 49.18                       |
|  | Duplex - Word          | 13.90                                | 17.26<br>( 1 set )  | 38.74<br>( 8 sets ) |                      | 49.12                       |
|  | Duplex - Excel         | 13.59                                | 17.64<br>( 1 set )  | 38.70<br>( 8 sets ) |                      | 48.92                       |
|  | Duplex - Average       | 13.6                                 | 17.60   | 38.88               |                      | 49.07                       |
| Notes<br>1) All printing device and driver settings were default mode.<br>2) For the B/W results, the print driver was set to "print in B/W".<br>3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .<br>4) Port monitor not configured to follow device if the IP address changes. |                        |                                      |   |                     |                      |                             |

| Test System Parameters  |  |
|-------------------------|--|
| Item                    | Value  |
| Computer                | HP Z240 SFF Workstation  |
| Processor               | Intel Core i7 -6770, 3.4 GHz   |
| System Chip Set         | Intel SKL/KBL Mobile/Desktop   |
| System Board            | system devices, default system BIOS  |
| System Memory           | 8 GB   |
| Hard Drive Subsystem    | Turbo Drive G2 256GB PCIe SSD  |
| Video Subsystem         | Microsoft Basic Display Adaptor  |
| Optical Drive           | HP HLDS DVDRW GUD1N  |
| I/O Subsystem           | Builtin  |
| USB Subsystem           | USB 2.0/3.0  |
| TCP/IP                  | 10/1000  |
| Operating System        | Win 10 Enterprise 64 Bit (10240)   |
| Printing Applications   | Microsoft Office Word 2016<br>Acrobat Reader DC<br>Microsoft Office Excel 2016 |
| Print Driver            | Not Specified  |
| Test files and location | Office category files, hard drive  |

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Full Detailed Test Report - Tabloid

|                                  |  |
|----------------------------------|--|
| HP Color LaserJet Flow MFP M776Z |  |
|                                  |  |

| Printing device and settings |                          |                                  |
|------------------------------|--------------------------|----------------------------------|
|                              | Test Start Date and Time | 12/5/2019 23:16                  |
|                              | Tester                   | AW                               |
|                              | Machine name/model       | HP Color LaserJet Flow MFP M776Z |
|                              | Colour or B&W            | Colour                           |
|                              | FW Version               | 2409048_052886                   |
|                              | Temperature and Humidity | 75 degF / 24 degC 42.0 %rH       |
|                              | Voltage                  | 110V                             |
|                              | Test End Date and Time   | 1/14/2020 1:00                   |

|                  | Item                    | Value                                   |
|------------------|-------------------------|---|
| Mode and Setting | Driver Version          | 6.7.0.23989                             |
|                  | Media/Quality Setting   | Default / Default                       |
|                  | Simplex B&W Settings    | Print in Grayscale                      |
|                  | Duplex B&W Settings     | Print in Grayscale                      |
|                  | Setting N set count     | Not Specified                           |
|                  | Collating function      | Not Specified                           |
| Paper Path       | Paper Sending Direction | Default                                 |
|                  | Paper Size Setting      | Default                                 |
|                  | Paper Feeding           | Tray 2                                  |
|                  | Paper Exit              | Standard Exit Tray                      |
|                  | Output Orientation      | Default (face down)                     |
|                  | Duplexing Unit (Yes/No) | Yes                                     |
| Paper            | Paper Manufacturer      | HP                                      |
|                  | Paper Weight            | 20lb / 75 g/m2                          |
|                  | Paper Size              | Letter / A4                             |
|                  | Paper type/name         | HP Multipurpose Ultra White / HP Office |

|  |         |                |            |
|--|---------|----------------|------------|
| Summary Report: Tabloid  |         |                |            |
| Office Category Test for Color Device  |         | FSOT (seconds) | ESAT (ipm) |
| Color  | Simplex | 11.06          | 26.07      |
|  | Duplex  | 14.20          | 26.68      |
| B&W  | Simplex | 14.88          | 26.13      |
|  | Duplex  | 18.13          | 26.14      |
| Notes<br>1) All printing device and driver settings were default mode.<br>2) For the B/W results, the print driver was set to "print in B/W".<br>3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .<br>4) Port monitor not configured to follow device if the IP address changes. |         |                |            |

|   |                        |                    |                    |                           |                          |               |
|---|------------------------|--------------------|--------------------|---------------------------|--------------------------|---------------|
| Detailed Report: Tabloid  |                        |                    |                    |                           |                          |               |
|   | Office Category Test   | FSOT (secs)        | EFTP (ipm)         |                           |                          | ESAT (ipm)    |
|   |                        | 1 set only (1 set) | 1 set only (1 set) | 1 set + 30sec (# of sets) | 1 set + 4min (# of sets) | 1 set + 30sec |
| Color Mode  | Simplex - Adobe Reader | 15.56              | 15.42              | 23.31                     | 25.00                    | 26.08         |
|   |                        |                    | ( 1 set )          | ( 6 sets )                | ( 29 sets )              |               |
|   | Simplex - Word         | 15.72              | 15.26              | 23.29                     |                          | 26.08         |
|   |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|   | Simplex - Excel        | 15.18              | 15.81              | 23.53                     |                          | 26.07         |
|   |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|   | Simplex - Average      | 15.49              | 15.49              | 23.37                     | 25.00                    | 26.07         |
|   | Duplex - Adobe Reader  | 23.07              | 10.40              | 20.96                     |                          | 26.70         |
| ( 1 set )   |                        |                    | ( 6 sets )         |                           |                          |               |
| Duplex - Word   | 19.28                  | 12.42              | 21.72              |                           | 26.44                    |               |
|   |                        | ( 1 set )          | ( 6 sets )         |                           |                          |               |
| Duplex - Excel  | 18.49                  | 12.96              | 22.16              |                           | 26.92                    |               |
|   |                        | ( 1 set )          | ( 6 sets )         |                           |                          |               |
| Duplex - Average  | 20.28                  | 11.92              | 21.61              |                           | 26.68                    |               |
| B&W mode<br><br>(optional for color device)   | Simplex - Adobe Reader | 14.50              | 16.55              | 23.48                     | 23.68                    | 26.13         |
|   |                        |                    | ( 1 set )          | ( 6 sets )                | ( 29 sets )              |               |
|   | Simplex - Word         | 15.09              | 15.90              | 23.47                     |                          | 26.13         |
|   |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|   | Simplex - Excel        | 15.04              | 15.96              | 23.74                     |                          | 26.14         |
|   |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|   | Simplex - Average      | 14.88              | 16.13              | 23.56                     | 23.68                    | 26.13         |
|   | Duplex - Adobe Reader  | 17.81              | 13.46              | 21.98                     |                          | 26.44         |
| ( 1 set )   |                        |                    | ( 6 sets )         |                           |                          |               |
| Duplex - Word   | 18.57                  | 12.92              | 21.82              |                           | 25.98                    |               |
|   |                        | ( 1 set )          | ( 6 sets )         |                           |                          |               |
| Duplex - Excel  | 18.00                  | 13.34              | 21.84              |                           | 26.00                    |               |
|   |                        | ( 1 set )          | ( 6 sets )         |                           |                          |               |
| Duplex - Average  | 18.13                  | 13.24              | 21.88              |                           | 26.14                    |               |
| Notes   |                        |                    |                    |                           |                          |               |
| 1) All printing device and driver settings were default mode.   |                        |                    |                    |                           |                          |               |
| 2) For the B/W results, the print driver was set to "print in B/W".   |                        |                    |                    |                           |                          |               |
| 3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . |                        |                    |                    |                           |                          |               |
| 4) Port monitor not configured to follow device if the IP address changes.  |                        |                    |                    |                           |                          |               |

| Test System Parameters  |  |
|-------------------------|--|
| Item                    | Value  |
| Computer                | HP Z240 SFF Workstation  |
| Processor               | Intel Core i7 -6770, 3.4 GHz   |
| System Chip Set         | Intel SKL/KBL Mobile/Desktop   |
| System Board            | system devices, default system BIOS  |
| System Memory           | 8 GB   |
| Hard Drive Subsystem    | Turbo Drive G2 256GB PCIe SSD  |
| Video Subsystem         | Microsoft Basic Display Adaptor  |
| Optical Drive           | HP HLDS DVDRW GUD1N  |
| I/O Subsystem           | Builtin  |
| USB Subsystem           | USB 2.0/3.0  |
| TCP/IP                  | 10/1000  |
| Operating System        | Win 10 Enterprise 64 Bit (10240)   |
| Printing Applications   | Microsoft Office Word 2016<br>Acrobat Reader DC<br>Microsoft Office Excel 2016 |
| Print Driver            | Not Specified  |
| Test files and location | Office category files, hard drive  |

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A3

|                                  |  |
|----------------------------------|--|
| HP Color LaserJet Flow MFP M776Z |  |
|                                  |  |

| Printing device and settings |                          |                                  |
|------------------------------|--------------------------|----------------------------------|
|                              | Test Start Date and Time | 12/5/2019 23:16                  |
|                              | Tester                   | AW                               |
|                              | Machine name/model       | HP Color LaserJet Flow MFP M776Z |
|                              | Colour or B&W            | Colour                           |
|                              | FW Version               | 2409048_052886                   |
|                              | Temperature and Humidity | 75 degF / 24 degC 42.0 %rH       |
|                              | Voltage                  | 110V                             |
|                              | Test End Date and Time   | 1/14/2020 1:00                   |

|                  | Item                    | Value                                   |
|------------------|-------------------------|---|
| Mode and Setting | Driver Version          | 6.7.0.23989                             |
|                  | Media/Quality Setting   | Default / Default                       |
|                  | Simplex B&W Settings    | Print in Grayscale                      |
|                  | Duplex B&W Settings     | Print in Grayscale                      |
|                  | Setting N set count     | Not Specified                           |
|                  | Collating function      | Not Specified                           |
| Paper Path       | Paper Sending Direction | Default                                 |
|                  | Paper Size Setting      | Default                                 |
|                  | Paper Feeding           | Tray 2                                  |
|                  | Paper Exit              | Standard Exit Tray                      |
|                  | Output Orientation      | Default (face down)                     |
|                  | Duplexing Unit (Yes/No) | Yes                                     |
| Paper            | Paper Manufacturer      | HP                                      |
|                  | Paper Weight            | 20lb / 75 g/m2                          |
|                  | Paper Size              | Letter / A4                             |
|                  | Paper type/name         | HP Multipurpose Ultra White / HP Office |

|  |         |                |            |
|--|---------|----------------|------------|
| Summary Report: A3   |         |                |            |
| Office Category Test for Color Device  |         | FSOT (seconds) | ESAT (ipm) |
| Color  | Simplex | 11.06          | 26.10      |
|  | Duplex  | 14.20          | 26.90      |
| B&W  | Simplex | 15.22          | 26.16      |
|  | Duplex  | 17.98          | 26.95      |
| Notes<br>1) All printing device and driver settings were default mode.<br>2) For the B/W results, the print driver was set to "print in B/W".<br>3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .<br>4) Port monitor not configured to follow device if the IP address changes. |         |                |            |

| Detailed Report: A3  |                        |                    |                    |                           |                          |               |
|--|------------------------|--------------------|--------------------|---------------------------|--------------------------|---------------|
|  | Office Category Test   | FSOT (secs)        | EFTP (ipm)         |                           |                          | ESAT (ipm)    |
|  |                        | 1 set only (1 set) | 1 set only (1 set) | 1 set + 30sec (# of sets) | 1 set + 4min (# of sets) | 1 set + 30sec |
|  |                        |                    |                    |                           |                          |               |
| Color Mode   | Simplex - Adobe Reader | 15.17              | 15.82              | 23.46                     | 23.73                    | 26.10         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                | ( 29 sets )              |               |
|  | Simplex - Word         | 15.79              | 15.20              | 23.35                     |                          | 26.11         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|  | Simplex - Excel        | 15.62              | 15.37              | 23.45                     |                          | 26.10         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|  | Simplex - Average      | 15.53              | 15.46              | 23.42                     | 23.73                    | 26.10         |
|  | Duplex - Adobe Reader  | 22.59              | 10.60              | 21.08                     |                          | 26.78         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
| B&W mode<br>(optional for color device)  | Simplex - Adobe Reader | 14.98              | 16.02              | 23.81                     | 23.92                    | 26.17         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                | ( 29 sets )              |               |
|  | Simplex - Word         | 15.47              | 15.52              | 23.59                     |                          | 26.16         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|  | Simplex - Excel        | 15.21              | 15.79              | 23.74                     |                          | 26.17         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|  | Simplex - Average      | 15.22              | 15.77              | 23.71                     | 23.92                    | 26.16         |
|  | Duplex - Adobe Reader  | 17.78              | 13.48              | 22.40                     |                          | 26.96         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|  | Duplex - Word          | 18.23              | 13.16              | 22.50                     |                          | 26.96         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|  | Duplex - Excel         | 17.93              | 13.38              | 22.52                     |                          | 26.94         |
|  |                        |                    | ( 1 set )          | ( 6 sets )                |                          |               |
|  | Duplex - Average       | 17.98              | 13.34              | 22.47                     |                          | 26.95         |
| Notes<br>1) All printing device and driver settings were default mode.<br>2) For the B/W results, the print driver was set to "print in B/W".<br>3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .<br>4) Port monitor not configured to follow device if the IP address changes. |                        |                    |                    |                           |                          |               |

| Test System Parameters  |  |
|-------------------------|--|
| Item                    | Value  |
| Computer                | HP Z240 SFF Workstation  |
| Processor               | Intel Core i7 -6770, 3.4 GHz   |
| System Chip Set         | Intel SKL/KBL Mobile/Desktop   |
| System Board            | system devices, default system BIOS  |
| System Memory           | 8 GB   |
| Hard Drive Subsystem    | Turbo Drive G2 256GB PCIe SSD  |
| Video Subsystem         | Microsoft Basic Display Adaptor  |
| Optical Drive           | HP HLDS DVDRW GUD1N  |
| I/O Subsystem           | Builtin  |
| USB Subsystem           | USB 2.0/3.0  |
| TCP/IP                  | 10/1000  |
| Operating System        | Win 10 Enterprise 64 Bit (10240)   |
| Printing Applications   | Microsoft Office Word 2016<br>Acrobat Reader DC<br>Microsoft Office Excel 2016 |
| Print Driver            | Not Specified  |
| Test files and location | Office category files, hard drive  |

ISO/IEC 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test

|                                  |                          |   |
|----------------------------------|--------------------------|---|
| HP Color LaserJet Flow MFP M776Z |                          |   |
|                                  |                          |   |
| Printing device and settings     |                          |   |
|                                  | Test Start Date and Time | 12/5/2019 23:16                         |
|                                  | Tester                   | AW                                      |
|                                  | Machine name/model       | HP Color LaserJet Flow MFP M776Z        |
|                                  | Colour or B&W            | Colour                                  |
|                                  | FW Version               | 2409048_052886                          |
|                                  | Temperature and Humidity | 75 degF / 24 degC 42.0 %rH              |
|                                  | Voltage                  | 110V                                    |
|                                  | Test End Date and Time   | 1/14/2020 1:00                          |
|                                  |                          |   |
| Item                             |                          | Value                                   |
| Mode and Setting                 | Driver Version           | 6.7.0.23989                             |
|                                  | Media/Quality Setting    | Default / Default                       |
|                                  | Simplex B&W Settings     | Print in Grayscale                      |
|                                  | Duplex B&W Settings      | Print in Grayscale                      |
|                                  | Setting N set count      | Not Specified                           |
|                                  | Collating function       | Not Specified                           |
| Paper Path                       | Paper Sending Direction  | Default                                 |
|                                  | Paper Size Setting       | Default                                 |
|                                  | Paper Feeding            | Tray 2                                  |
|                                  | Paper Exit               | Standard Exit Tray                      |
|                                  | Output Orientation       | Default (face down)                     |
|                                  | Duplexing Unit (Yes/No)  | Yes                                     |
| Paper                            | Paper Manufacturer       | HP                                      |
|                                  | Paper Weight             | 20lb / 75 g/m2                          |
|                                  | Paper Size               | Letter / A4                             |
|                                  | Paper type/name          | HP Multipurpose Ultra White / HP Office |

| ISO Print Productivity Report: Feature Performance Test Summary            |         |                               |                               |
|--|---------|-------------------------------|-------------------------------|
| Printing Modes<br>(Feature Adobe Reader - Office test file)                |         | Feature Performance Ratio     |                               |
|  |         | FSOT (base)<br>FSOT (feature) | ESAT (feature)<br>ESAT (base) |
| A5, Landscape Feed, Simplex, Colour  | Simplex | 88%                           | 77%                           |
| A5, Portrait Feed, Simplex, Colour   | Simplex |                               |                               |
| Legal, Simplex, Colour   | Simplex | 75%                           | 68%                           |
| Legal, Duplex, Colour  | Duplex  | 66%                           | 69%                           |
| A4, 1200 dpi, Simplex, Colour  | Simplex |                               |                               |
| Letter, 1200 dpi, Simplex, Colour  | Simplex |                               |                               |
| A4, General Office, Simplex, Colour  | Simplex |                               |                               |
| Letter, General Office, Simplex, Colour                                    | Simplex |                               |                               |
| A5, Landscape Feed, Simplex, B/W   | Simplex | 81%                           | 77%                           |
| A5, Portrait Feed, Simplex, B/W  | Simplex |                               |                               |
| Legal, Simplex, B/W  | Simplex | 77%                           | 69%                           |
| Legal, Duplex, B/W   | Duplex  | 64%                           | 69%                           |
| A4, 1200 dpi, Simplex, B/W   | Simplex |                               |                               |
| Letter, 1200 dpi, Simplex, B/W   | Simplex |                               |                               |
| A4, General Office, Simplex, B/W   | Simplex |                               |                               |
| Letter, General Office, Simplex, B/W                                       | Simplex |                               |                               |
| Notes  |         |                               |                               |
| 1) All printing device and driver settings w ere default mode.             |         |                               |                               |
| 2) Test conducted w ith 8-paper Office Feature Performance file.           |         |                               |                               |
| 3) For more information see http://w w w .hp.com/go/printerclaims.         |         |                               |                               |
| 4) Port monitor not configured to follow device if the IP address changes. |         |                               |                               |

| Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test |                    |              |                      |                              |                               |                               |
|--|--------------------|--------------|----------------------|------------------------------|-------------------------------|-------------------------------|
| Printing Modes<br>Feature Adobe Reader - Office<br>test file (8-page)                      | Base Printing Mode |              | Feature Performance  |                              |                               |                               |
|  | FSOT<br>Base       | ESAT<br>Base | 1 set<br>FSOT (secs) | 1 set + 30 sec<br>ESAT (ipm) | FSOT (base)<br>FSOT (feature) | ESAT (feature)<br>ESAT (base) |
| A5, Landscape Feed, Simplex, Colour  | 16.1               | 46.26        | 18.37                | 35.7                         | 88%                           | 77%                           |
| A5, Portrait Feed, Simplex, Colour   | 16.1               | 46.26        |                      |                              |                               |                               |
| Legal, Simplex, Colour   | 16.12              | 45.15        | 21.73                | 31.1                         | 75%                           | 68%                           |
| Legal, Duplex, Colour  | 16.12              | 45.15        | 24.76                | 31.3                         | 66%                           | 69%                           |
| A4, 1200 dpi, Simplex, Colour  | 16.1               | 46.26        |                      |                              |                               |                               |
| Letter, 1200 dpi, Simplex, Colour  | 16.12              | 45.15        |                      |                              |                               |                               |
| A4, General Office, Simplex, Colour  | 16.1               | 46.26        |                      |                              |                               |                               |
| Letter, General Office, Simplex, Colour  | 16.12              | 45.15        |                      |                              |                               |                               |
| A5, Landscape Feed, Simplex, B/W   | 15.5               | 46.12        | 19.37                | 35.7                         | 81%                           | 77%                           |
| A5, Portrait Feed, Simplex, B/W  | 15.5               | 46.12        |                      |                              |                               |                               |
| Legal, Simplex, B/W  | 15.8               | 45.11        | 20.62                | 31.2                         | 77%                           | 69%                           |
| Legal, Duplex, B/W   | 15.8               | 45.11        | 25.07                | 31.3                         | 64%                           | 69%                           |
| A4, 1200 dpi, Simplex, B/W   | 15.5               | 46.12        |                      |                              |                               |                               |
| Letter, 1200 dpi, Simplex, B/W   | 15.8               | 45.11        |                      |                              |                               |                               |
| A4, General Office, Simplex, B/W   | 15.5               | 46.12        |                      |                              |                               |                               |
| Letter, General Office, Simplex, B/W   | 15.8               | 45.11        |                      |                              |                               |                               |
| Notes  |                    |              |                      |                              |                               |                               |
| 1) All printing device and driver settings were default mode.                              |                    |              |                      |                              |                               |                               |
| 2) Test conducted w ith 8-paper Office Feature Performance file                            |                    |              |                      |                              |                               |                               |
| 3) For more information see http://w w w .hp.com/go/printerclaims.                         |                    |              |                      |                              |                               |                               |
| 4) Port monitor not configured to follow device if the IP address changes.                 |                    |              |                      |                              |                               |                               |

| Test System Parameters |                         |                                     |
|------------------------|-------------------------|-------------------------------------|
| Item                   |                         | Value                               |
| Test System            | Computer                | HP Z240 SFF Workstation             |
|                        | Processor               | Intel Core i7 -6770, 3.4 GHz        |
|                        | System Chip Set         | Intel SKL/KBL Mobile/Desktop        |
|                        | System Board            | system devices, default system BIOS |
|                        | System Memory           | 8 GB                                |
|                        | Hard Drive Subsystem    | Turbo Drive G2 256GB PCIe SSD       |
|                        | Video Subsystem         | Microsoft Basic Display Adaptor     |
|                        | Optical Drive           | HP HLDS DVD RW GUD1N                |
|                        | I/O Subsystem           | Builtin                             |
|                        | USB Subsystem           | USB 2.0/3.0                         |
| I/O                    | TCP/IP                  |                                     |
| Software               | Operating System        | Win 10 Enterprise 64 Bit (10240)    |
|                        | Printing Applications   | Microsoft Office Word 2016          |
|                        |                         | Acrobat Reader DC                   |
|                        |                         | Microsoft Office Excel 2016         |
|                        | Print Driver            | Not Specified                       |
|                        | Test files and location | Office category files, hard drive   |



ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

|                                  |                              |                                  |
|----------------------------------|------------------------------|----------------------------------|
| HP Color LaserJet Flow MFP M776Z |                              |                                  |
|                                  |                              |                                  |
| Printing device and settings     |                              |                                  |
|                                  | Test Start Date and Time     | 12/6/2019 1:16                   |
|                                  | Tester                       | AW                               |
|                                  | Machine name/model           | HP Color LaserJet Flow MFP M776Z |
|                                  | Colour or B&W                | Colour                           |
|                                  | FW Version                   | 2409048_052886                   |
|                                  | Configuration (options)      | Default                          |
|                                  | Controller                   | 7.137                            |
|                                  | Printing device page count   | Not Specified                    |
|                                  | Printing supplies page count | Not Specified                    |
|                                  | Temperature and Humidity     | 75 degF / 24 degC 42.0 %rH       |
|                                  | Voltage                      | 110V                             |
|                                  | Test End Date and Time       | 12/9/2019 21:27                  |

|                  |  |                        |                                |
|------------------|--|------------------------|--------------------------------|
|                  |  | Item                   | Value                          |
| Mode and Setting |  | PDL and driver version | 6.7.0.23989                    |
|                  |  | Print Quality mode     | default                        |
|                  |  | B&W settings           | default                        |
|                  |  | Paper feed orientation | Short Edge                     |
|                  |  | Paper type setting     | default                        |
| Paper            |  | Paper feeding          | Standard cassette              |
|                  |  | Paper exit             | Standard exit tray             |
| Paper Path       |  | Output orientation     | default (face up or face down) |

|  |         |                           |
|--|---------|---------------------------|
| ISO First Page Out Time Summary Report: Office Category                    |         |                           |
| Summary Report: Letter   |         |                           |
|  |         | FPOT from Ready (seconds) |
| Color  | Simplex | 6.49                      |
|  | Duplex  |                           |
| B&W  | Simplex | 6.24                      |
|  | Duplex  |                           |
| Notes  |         |                           |
| 1) All printing device and driver settings w ere default mode.             |         |                           |
| 2) For the B/W results, the print driver w as set to "print in B/W".       |         |                           |
| 3) For more information see http://w w w .hp.com/go/printerclaims.         |         |                           |
| 4) Port monitor not configured to follow device if the IP address changes. |         |                           |
| 5) Page counts w ere collected after completion of the tests.              |         |                           |

|  |                           |                |                 |                        |                   |            |
|--|---------------------------|----------------|-----------------|------------------------|-------------------|------------|
| ISO First Page Out Time Report: Office Category                            |                           |                |                 |                        |                   |            |
| Detailed Report: LETTER  |                           |                |                 |                        |                   |            |
|  |                           | Word (seconds) | Excel (seconds) | Adobe Reader (seconds) | Average (seconds) | Delay Time |
| Color Mode   | FPOT from Ready - Simplex | 6.70           | 6.53            | 6.23                   | 6.49              | 20 Seconds |
|  | FPOT from Ready - Duplex  |                |                 |                        |                   |            |
|  | FPOT from Sleep - Simplex |                |                 | 16.41                  |                   | 67 Minutes |
|  | Recovery Time             |                |                 | 10.2                   |                   |            |
|  | FPOT from Off - Simplex   |                |                 | 219.44                 |                   |            |
|  | Warm-up Time              |                |                 | 213.21                 |                   |            |
| B&W Mode   | FPOT from Ready - Simplex | 6.38           | 6.38            | 5.96                   | 6.24              | 20 Seconds |
|  | FPOT from Ready - Duplex  |                |                 |                        |                   |            |
|  | FPOT from Sleep - Simplex |                |                 | 16.99                  |                   | 67 Minutes |
|  | Recovery Time             |                |                 | 11.0                   |                   |            |
|  | FPOT from Off - Simplex   |                |                 | 215.95                 |                   |            |
|  | Warm-up Time              |                |                 | 209.99                 |                   |            |
| Notes  |                           |                |                 |                        |                   |            |
| 1) All printing device and driver settings w ere default mode.             |                           |                |                 |                        |                   |            |
| 2) For the B/W results, the print driver w as set to "print in B/W".       |                           |                |                 |                        |                   |            |
| 3) For more information see http://w w w .hp.com/go/printerclaims.         |                           |                |                 |                        |                   |            |
| 4) Port monitor not configured to follow device if the IP address changes. |                           |                |                 |                        |                   |            |
| 5) Page counts w ere collected after completion of the tests.              |                           |                |                 |                        |                   |            |
| 6) Details for FPOT from Sleep are show n below .                          |                           |                |                 |                        |                   |            |

|  |  |                 |                         |                         |                         |              |            |
|--|--|-----------------|-------------------------|-------------------------|-------------------------|--------------|------------|
| HP Data Table  |  |                 |                         |                         |                         |              |            |
| Detailed Report: LETTER  |  |                 |                         |                         |                         |              |            |
|  |  | FPOT Avg (secs) | FPOT (secs) Iteration 1 | FPOT (secs) Iteration 2 | FPOT (secs) Iteration 3 | Application  | Delay Time |
| Color Mode   | FPOT from Sleep                              | 16.41           | 16.24                   | 16.57                   | N/A                     | Adobe Reader | 67 Minutes |
|  | FPOT from Sleep (15 minutes) HP/Non ISO Test | 12.67           | 12.69                   | 12.64                   | N/A                     | Adobe Reader | 15 Minutes |
| B&W Mode   | FPOT from Sleep                              | 16.99           | 16.82                   | 17.16                   | N/A                     | Adobe Reader | 67 Minutes |
|  | FPOT from Sleep (15 minutes) HP/Non ISO Test | 12.50           | 12.54                   | 12.46                   | N/A                     | Adobe Reader | 15 Minutes |
| Notes  |  |                 |                         |                         |                         |              |            |
| 1) All printing device and driver settings w ere default mode.               |  |                 |                         |                         |                         |              |            |
| 2) For the B/W results, the print driver w as set to "print in B/W".         |  |                 |                         |                         |                         |              |            |
| 3 DLP includes detailed iterations as data measurements may vary run to run. |  |                 |                         |                         |                         |              |            |

|                            |                       |                                     |
|----------------------------|-----------------------|-------------------------------------|
| Test System Parameters     |                       |                                     |
| Test System                | Item                  | Value                               |
|                            | Computer              | HP Z240 SFF Workstation             |
|                            | Processor             | Intel Core i7 -6770, 3.4 GHz        |
|                            | System Chip Set       | Intel SKL/KBL Mobile/Desktop        |
|                            | System Board          | system devices, default system BIOS |
|                            | System Memory         | 8 GB                                |
|                            | Hard Drive Subsystem  | Turbo Drive G2 256GB PCIe SSD       |
|                            | Video Subsystem       | Microsoft Basic Display Adaptor     |
|                            | Optical Drive         | HP HLDS DVDRW GUD1N                 |
|                            | I/O Subsystem         | Builtin                             |
| Printing Device Connection | TCP/IP                | 10/1000                             |
|                            | Operating System      | Win 10 Enterprise 64 Bit (10240)    |
| Software                   | Printing Applications | Microsoft Word 2016                 |
|                            |                       | Microsoft Excel 2016                |
|                            |                       | Adobe Reader DC                     |

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - A4

|                                  |                              |                                  |
|----------------------------------|------------------------------|----------------------------------|
| HP Color LaserJet Flow MFP M776Z |                              |                                  |
|                                  |                              |                                  |
| Printing device and settings     |                              |                                  |
|                                  | Test Start Date and Time     | 12/6/2019 1:16                   |
|                                  | Tester                       | AW                               |
|                                  | Machine name/model           | HP Color LaserJet Flow MFP M776Z |
|                                  | Colour or B&W                | Colour                           |
|                                  | FW Version                   | 2409048_052886                   |
|                                  | Configuration (options)      | Default                          |
|                                  | Controller                   | 7.137                            |
|                                  | Printing device page count   | Not Specified                    |
|                                  | Printing supplies page count | Not Specified                    |
|                                  | Temperature and Humidity     | 75 degF / 24 degC 42.0 %rH       |
|                                  | Voltage                      | 110V                             |
|                                  | Test End Date and Time       | 12/9/2019 21:27                  |

|                  |  |                        |                                |
|------------------|--|------------------------|--------------------------------|
|                  |  | Item                   | Value                          |
| Mode and Setting |  | PDL and driver version | 6.7.0.23989                    |
|                  |  | Print Quality mode     | default                        |
|                  |  | B&W settings           | default                        |
|                  |  | Paper feed orientation | Short Edge                     |
|                  |  |                        |                                |
| Paper            |  | Paper type setting     | default                        |
|                  |  | Paper feeding          | Standard cassette              |
| Paper Path       |  | Paper exit             | Standard exit tray             |
|                  |  | Output orientation     | default (face up or face down) |

|  |         |                           |
|--|---------|---------------------------|
| ISO First Page Out Time Summary Report: Office Category                    |         |                           |
| Summary Report: A4   |         |                           |
|  |         | FPOT from Ready (seconds) |
| Colour   | Simplex | 6.62                      |
|  | Duplex  |                           |
| B&W  | Simplex | 6.21                      |
|  | Duplex  |                           |
| Notes  |         |                           |
| 1) All printing device and driver settings w ere default mode.             |         |                           |
| 2) For the B/W results, the print driver w as set to "print in B/W".       |         |                           |
| 3) For more information see http://w w w .hp.com/go/printerclaims.         |         |                           |
| 4) Port monitor not configured to follow device if the IP address changes. |         |                           |
| 5) Page counts w ere collected after completion of the tests.              |         |                           |

|  |                           |                |                 |                        |                   |            |
|--|---------------------------|----------------|-----------------|------------------------|-------------------|------------|
| ISO First Page Out Time Report: Office Category                            |                           |                |                 |                        |                   |            |
| Detailed Report: A4  |                           |                |                 |                        |                   |            |
|  |                           | Word (seconds) | Excel (seconds) | Adobe Reader (seconds) | Average (seconds) | Delay Time |
| Color Mode   | FPOT from Ready - Simplex | 6.82           | 6.74            | 6.28                   | 6.62              | 20 Seconds |
|  | FPOT from Ready - Duplex  |                |                 |                        |                   |            |
|  | FPOT from Sleep - Simplex |                |                 | 16.00                  |                   | 67 Minutes |
|  | Recovery Time             |                |                 | 9.7                    |                   |            |
|  | FPOT from Off - Simplex   |                |                 | 229.52                 |                   |            |
|  | Warm-up Time              |                |                 | 223.24                 |                   |            |
| B&W Mode   | FPOT from Ready - Simplex | 6.39           | 6.40            | 5.82                   | 6.21              | 20 Seconds |
|  | FPOT from Ready - Duplex  |                |                 |                        |                   |            |
|  | FPOT from Sleep - Simplex |                |                 | 15.73                  |                   | 67 Minutes |
|  | Recovery Time             |                |                 | 9.9                    |                   |            |
|  | FPOT from Off - Simplex   |                |                 | 209.28                 |                   |            |
|  | Warm-up Time              |                |                 | 203.46                 |                   |            |
| Notes  |                           |                |                 |                        |                   |            |
| 1) All printing device and driver settings w ere default mode.             |                           |                |                 |                        |                   |            |
| 2) For the B/W results, the print driver w as set to "print in B/W".       |                           |                |                 |                        |                   |            |
| 3) For more information see http://w w w .hp.com/go/printerclaims.         |                           |                |                 |                        |                   |            |
| 4) Port monitor not configured to follow device if the IP address changes. |                           |                |                 |                        |                   |            |
| 5) Page counts w ere collected after completion of the tests.              |                           |                |                 |                        |                   |            |
| 6) Details for FPOT from Sleep are show n below .                          |                           |                |                 |                        |                   |            |

|  |  |                 |                         |                         |                         |              |            |
|--|--|-----------------|-------------------------|-------------------------|-------------------------|--------------|------------|
| HP Data Table  |  |                 |                         |                         |                         |              |            |
| Detailed Report: A4  |  |                 |                         |                         |                         |              |            |
|  |  | FPOT Avg (secs) | FPOT (secs) Iteration 1 | FPOT (secs) Iteration 2 | FPOT (secs) Iteration 3 | Application  | Delay Time |
| Color Mode   | FPOT from Sleep                              | 16.00           | 15.86                   | 16.14                   | N/A                     | Adobe Reader | 67 Minutes |
|  | FPOT from Sleep (15 minutes) HP/Non ISO Test | 14.27           | 14.29                   | 14.25                   | N/A                     | Adobe Reader | 15 Minutes |
| B&W Mode   | FPOT from Sleep                              | 15.73           | 15.68                   | 15.78                   | N/A                     | Adobe Reader | 67 Minutes |
|  | FPOT from Sleep (15 minutes) HP/Non ISO Test | 14.76           | 15.19                   | 14.32                   | N/A                     | Adobe Reader | 15 Minutes |
| Notes  |  |                 |                         |                         |                         |              |            |
| 1) All printing device and driver settings w ere default mode.               |  |                 |                         |                         |                         |              |            |
| 2) For the B/W results, the print driver w as set to "print in B/W".         |  |                 |                         |                         |                         |              |            |
| 3 DLP includes detailed iterations as data measurements may vary run to run. |  |                 |                         |                         |                         |              |            |

|                            |                       |                                     |
|----------------------------|-----------------------|-------------------------------------|
| Test System Parameters     |                       |                                     |
| Item                       |                       |                                     |
| Test System                | Computer              | HP Z240 SFF Workstation             |
|                            | Processor             | Intel Core i7 -6770, 3.4 GHz        |
|                            | System Chip Set       | Intel SKL/KBL Mobile/Desktop        |
|                            | System Board          | system devices, default system BIOS |
|                            | System Memory         | 8 GB                                |
|                            | Hard Drive Subsystem  | Turbo Drive G2 256GB PCIe SSD       |
|                            | Video Subsystem       | Microsoft Basic Display Adaptor     |
|                            | Optical Drive         | HP HLDS DVDRW GUD1N                 |
|                            | I/O Subsystem         | Builtin                             |
|                            | USB Subsystem         | USB 2.0/3.0                         |
| Printing Device Connection | TCP/IP                | 10/1000                             |
| Software                   | Operating System      | Win 10 Enterprise 64 Bit (10240)    |
|                            | Printing Applications | Microsoft Word 2016                 |
|                            |                       | Microsoft Excel 2016                |
|                            |                       | Adobe Reader DC                     |

## ISO/IEC 29183 Copy Productivity Report

## Full Detailed Test Report - LETTER

|                                  |                          |   |
|----------------------------------|--------------------------|---|
| HP Color LaserJet Flow MFP M776Z |                          |   |
|                                  |                          |   |
| <b>Machine Setup Information</b> |                          |   |
|                                  | Test Start Date and Time | 1/14/2020 18:21                         |
|                                  | Tester                   | AW                                      |
|                                  | Machine name/model       | HP Color LaserJet Flow MFP M776Z        |
|                                  | Colour or B&W            | Colour                                  |
|                                  | FW Version               | 2409048_052886                          |
|                                  | Configuration (options)  | Not Specified                           |
|                                  | Temperature and Humidity | 75 degF / 24 degC 42.0 %rH              |
|                                  | Test End Date and Time:  | 1/16/2020 22:13                         |
|                                  |                          |   |
|                                  | <b>Pre-set Item</b>      | <b>Pre-set Value</b>                    |
| <b>Mode</b>                      | Output Resolution        | Default                                 |
|                                  | Output Quality           | Default                                 |
|                                  | Copying Mode             | Colour for Colour and B&W for B&W       |
|                                  | Auto Density Adjustment  | Default                                 |
|                                  | Collating function       | Set in Control Panel                    |
| <b>Paper</b>                     | Paper Sending Direction  | Default                                 |
|                                  | Paper Type Setting       | Default                                 |
| <b>Paper Path</b>                | Paper Feeding            | Tray 2                                  |
|                                  | Paper Exit               | Default                                 |
|                                  | Face Up Exit             | Default (face down)                     |
| <b>Temporary Stop</b>            | Fixing Capability        | Default                                 |
|                                  | Image Quality Stability  | Default                                 |
|                                  | Capacity of Paper        | Default                                 |
|                                  | Others                   | None                                    |
|                                  |                          |   |
| <b>Paper</b>                     | Paper Manufacturer       | HP / Xerox                              |
|                                  | Paper Weight             | 20lb / 75 g/m2                          |
|                                  | Paper Size               | Letter / A4                             |
|                                  | Paper type/name          | HP Multipurpose Ultra White / HP Office |

|   |              |                    |
|---|--------------|--------------------|
| Summary Report: <b>Letter</b>   |              |                    |
|   |              |                    |
|   | <b>sFCOT</b> | <b>sESAT (ipm)</b> |
| <b>Color</b>  | 7.48         | 45.49              |
| <b>B&amp;W</b>  | 5.39         | 45.47              |
| <b>Notes</b><br>First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . Exact speed varies depending on the system configuration and document.<br>Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2 |              |                    |

| Detailed Report: <b>LETTER</b> |         |              |             |             |                |             |
|--------------------------------|---------|--------------|-------------|-------------|----------------|-------------|
|                                |         |              |             |             |                |             |
|                                | Target  | sFCOT (secs) | sEFTP (ipm) |             |                | sESAT (ipm) |
|                                |         |              | 1copy       | 1copy+30sec | 1copy+4minutes |             |
| Color                          | A       | 7.48         | 8.02        | 37.50       | 42.02          | 45.49       |
|                                |         |              |             | 26 sets     | 187 sets       |             |
|                                | B       |              |             |             |                |             |
|                                | C       |              |             |             |                |             |
|                                | D       |              |             |             |                |             |
|                                | Average | 7.48         | 8.02        | 37.50       | 42.02          | 45.49       |
| B&W                            | A       | 5.39         | 11.13       | 38.35       | 40.08          | 45.47       |
|                                |         |              |             | 26 sets     | 187 sets       |             |
|                                | B       |              |             |             |                |             |
|                                | C       |              |             |             |                |             |
|                                | D       |              |             |             |                |             |
|                                | Average | 5.39         | 11.13       | 38.35       | 40.08          | 45.47       |

Notes

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2



## Full Detailed Test Report - A4

|  |                          |                                  |
|--|--------------------------|----------------------------------|
|  | Test Start Date and Time | 1/14/2020 18:21                  |
|  | Tester                   | AW                               |
|  | Machine name/model       | HP Color LaserJet Flow MFP M776Z |
|  | Colour or B&W            | Colour                           |
|  | FW Version               | 2409048_052886                   |
|  | Configuration (options)  | Not Specified                    |
|  | Temperature and Humidity | 75 degF / 24 degC 42.0 %rH       |
|  | Test End Date and Time:  | 1/16/2020 22:13                  |

|              |                    |   |
|--------------|--------------------|---|
| <b>Paper</b> | Paper Manufacturer | HP / Xerox                              |
|              | Paper Weight       | 20lb / 75 g/m2                          |
|              | Paper Size         | Letter / A4                             |
|              | Paper type/name    | HP Multipurpose Ultra White / HP Office |

|  |
|--|
| Notes  |
| First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . Exact speed varies depending on the system configuration and document. |
| Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2  |

|  |
|--|
| Notes  |
| First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . Exact speed varies depending on the system configuration and document. |
| Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2  |

## ISO/IEC 24735 Copy Productivity Report

## Full Detailed Test Report - LETTER

|                                  |  |
|----------------------------------|--|
| <b>Machine Setup Information</b> |  |
| Test Start Date and Time         | 1/15/2020 19:39                              |
| Tester                           | AW   |
| Machine name/model               | HP Color LaserJet Flow MFP M776Z             |
| Colour or B&W                    | Colour                                       |
| FW Version                       | 2409048_052886                               |
| Configuration (options)          | Not Specified                                |
| Temperature and Humidity         | 75 degF / 24 degC 42.0 %rH                   |
| Test End Date and Time:          | 1/21/2020 20:33                              |
|                                  |  |
| <b>Pre-set Item</b>              | <b>Pre-set Value</b>                         |
| Output Resolution                | Default                                      |
| Output Quality                   | Default                                      |
| Copying Mode                     | Default                                      |
| Auto Density Adjustment          | Default                                      |
| Collating function               | Activated (if not activated in default mode) |
| Paper Sending Direction          | Default                                      |
| Paper Type Setting               | Default                                      |
| Paper Feeding                    | Standard cassette                            |
| Paper Exit                       | Standard exit tray                           |
| Face Up Exit                     | Default                                      |
| Fixing Capability                | Default                                      |
| Image Quality Stability          | Default                                      |
| Capacity of Paper                | Default                                      |
| Others                           | Default                                      |
|                                  |  |
| Paper Manufacturer               | HP / Xerox                                   |
| Paper Weight                     | 20lb / 75 g/m2                               |
| Paper Size                       | Letter / A4                                  |

| ISO/IEC 24735 Copy Productivity Report |              |             |            |               |              |               |
|--|--------------|-------------|------------|---------------|--------------|---------------|
| Detailed Report: LETTER                |              |             |            |               |              |               |
|  | Copying Mode | FSOT (secs) | EFTP (ipm) |               |              | ESAT (ipm)    |
|  |              | 1 set only  | 1 set only | 1 set + 30sec | 1 set + 4min | 1 set + 30sec |
| Color Mode                             | 1:1          | 12.74       | 18.87      | 37.45         | 40.17        | 45.48         |
|  |              |             | ( 1 set )  | 7 sets        | 48 sets      |               |
|  | 1:2          | 20.23       | 11.86      | 33.84         |              | 48.10         |
|  |              |             | ( 1 set )  | 8 sets        |              |               |
|  | 2:2          | 17.69       | 13.56      | 35.22         |              | 48.08         |
|  |              |             | ( 1 set )  | 8 sets        |              |               |
| B&W mode                               | 1:1          | 9.95        | 24.14      | 39.39         | 39.58        | 45.47         |
|  |              |             |            | 8 sets        | 48 sets      |               |
|  | 1:2          | 14.79       | 16.22      | 36.48         |              | 48.10         |
|  |              |             |            | 8 sets        |              |               |
|  | 2:2          | 21.01       | 11.42      | 35.62         |              | 48.10         |
|  |              |             |            | 8 sets        |              |               |

Notes  
 Reports located: <http://www.hp.com/go/printerclaims>



ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - LETTER

|  | Machine Setup Information |                                  |
|--|---------------------------|----------------------------------|
|  | Test Start Date and Time  | 1/22/2020 22:24                  |
|  | Tester                    | AW                               |
|  | Machine name/model        | HP Color LaserJet Flow MFP M776Z |
|  | Colour or B&W             | Colour                           |
|  | Configuration (options)   | Default                          |
|  | Temperature and Humidity  | 75 degF / 24 degC 42.0 %rH       |
|  | Voltage                   | 110V                             |
|  | Test End Date and Time    | 1/27/2020 20:24                  |

|                  | Preset Item                  | Preset Value                             |
|------------------|------------------------------|--|
| Mode and Setting | Scanning resolution          | default (200 dpi)                        |
|                  | Colour or grey scale/B&W     | default (colour)                         |
|                  | Duplex / simplex             | default (simplex)                        |
|                  | Original page size           | default (A4)                             |
|                  | Paper feed orientation       | default (long edge)                      |
|                  | Scan destination             | default (shared network)                 |
|                  | Storing File Type            | default (PDF-multi)                      |
|                  | Auto scan quality adjustment | default (factory preset default setting) |
| ADF Paper-path   | Paper feed direction         | default (long edge)                      |
|                  | Output orientation           | default                                  |
|                  | Scanning unit                | default (duplex ADF)                     |

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: Letter

|        | Scanning Mode       |            |               | Measurement result  |
|--------|---------------------|------------|---------------|---------------------|
|        | File format version | Resolution | Scanning side | scESAT 30secA (ipm) |
| Colour | PDF 1.4             | 200        | single sided  | 129.72              |
|        |                     |            | double sided  | 253.55              |
| B&W    | PDF 1.4             | 200        | single sided  | 129.06              |
|        |                     |            | double sided  | 249.40              |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: Letter

|        | Scanning Mode       |            |               | Measurement result  |                          |                         |
|--------|---------------------|------------|---------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 85.08               | 5.64                     | 18.00                   |
|        |                     |            | double sided  | 120.59              | 12.21                    | 36.00                   |
| B&W    | PDF 1.4             | 200        | single sided  | 88.23               | 4.84                     | 19.00                   |
|        |                     |            | double sided  | 132.29              | 9.77                     | 35.00                   |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: Letter

|        | Scanning Mode       |            |               | Measurement result |                     |                     |
|--------|---------------------|------------|---------------|--------------------|---------------------|---------------------|
|        | File format version | Resolution | Scanning side | scEFTP 1setA (ipm) | scEFTP 30secA (ipm) | scESAT 30secA (ipm) |
| Colour | PDF 1.4             | 200        | single sided  | 43.19              | 117.75              | 129.72              |
|        |                     |            | double sided  | 47.14              | 220.48              | 253.55              |
| B&W    | PDF 1.4             | 200        | single sided  | 45.28              | 116.98              | 129.06              |
|        |                     |            | double sided  | 50.39              | 223.29              | 249.4               |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: Letter

|        | Scanning Mode       |            |               | Measurement result |                     |                          |                         |
|--------|---------------------|------------|---------------|--------------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 1setF (ipm) | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 23.00              | 85.08               | 5.64                     | 18                      |
|        |                     |            | double sided  | 22.55              | 120.59              | 12.21                    | 36                      |
| B&W    | PDF 1.4             | 200        | single sided  | 23.80              | 88.23               | 4.84                     | 19                      |
|        |                     |            | double sided  | 20.78              | 132.29              | 9.77                     | 35                      |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

|                            | Test System Parameters     |   |
|----------------------------|----------------------------|---|
|                            | Item                       | Value   |
| System                     | Computer name              | HP Compaq Elite 8300 Small Form Factor                |
|                            | Processor                  | Intel Core i7 -3770, 3.4 GHz                          |
|                            | System Chip Set            | Intel C216 Chipset Family SMBus Host Controller       |
|                            | System Board               | System devices, default system BIOS                   |
|                            | System Memory              | 4 GB  |
|                            | Hard Drive Subsystem       | Standard disk drive (Seagate)                         |
|                            | Video Subsystem            | AMD Radeon HD 6350                                    |
|                            | Optical Drive              | HP DVD A DH16aCSHR ATA                                |
|                            | I/O Subsystem              | Builtin   |
|                            | USB Subsystem              | USB 2.0/3.0   |
|                            | Operating System           | Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1 |
| Scanning Device Connection | Location of network folder | PC  |
|                            | Internet Protocol          | IPv4  |
|                            | Transfer Protocol          | SMB   |
|                            | Hub                        | Trendnet Router and Gbit Switch                       |
|                            | Network Speed              | TCP 10/1000 Mbit Ethernet                             |
|                            | Connetion Cable            | Cat6 Straight cable                                   |
|                            | Wireless router            | No use  |
|                            | Others                     | No use  |

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - A4

|  | Machine Setup Information |                                  |
|--|---------------------------|----------------------------------|
|  | Test Start Date and Time  | 1/22/2020 22:24                  |
|  | Tester                    | AW                               |
|  | Machine name/model        | HP Color LaserJet Flow MFP M776Z |
|  | Colour or B&W             | Colour                           |
|  | Configuration (options)   | Default                          |
|  | Temperature and Humidity  | 75 degF / 24 degC 42.0 %rH       |
|  | Voltage                   | 110V                             |
|  | Test End Date and Time    | 1/27/2020 20:24                  |

|                  | Preset Item                  | Preset Value                             |
|------------------|------------------------------|--|
| Mode and Setting | Scanning resolution          | default (200 dpi)                        |
|                  | Colour or grey scale/B&W     | default (colour)                         |
|                  | Duplex / simplex             | default (simplex)                        |
|                  | Original page size           | default (A4)                             |
|                  | Paper feed orientation       | default (long edge)                      |
|                  | Scan destination             | default (shared network)                 |
|                  | Storing File Type            | default (PDF-multi)                      |
|                  | Auto scan quality adjustment | default (factory preset default setting) |
| ADF Paper-path   | Paper feed direction         | default (long edge)                      |
|                  | Output orientation           | default                                  |
|                  | Scanning unit                | default (duplex ADF)                     |

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

| Summary Report: A4  |                     |            |               |                     |
|---|---------------------|------------|---------------|---------------------|
|   | Scanning Mode       |            |               | Measurement result  |
|   | File format version | Resolution | Scanning side | scESAT 30secA (ipm) |
| Colour  | PDF 1.4             | 200        | single sided  | 129.96              |
|   |                     |            | double sided  | 255.23              |
| B&W   | PDF 1.4             | 200        | single sided  | 128.19              |
|   |                     |            | double sided  | 252.78              |
| Notes   |                     |            |               |                     |
| 1) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . |                     |            |               |                     |
| 2) For the B/W results, the device scan setting is set to "Scan in B/W".  |                     |            |               |                     |

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: A4

|        | Scanning Mode       |            |               | Measurement result  |                          |                         |
|--------|---------------------|------------|---------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 86.37               | 5.85                     | 19.00                   |
|        |                     |            | double sided  | 124.95              | 11.98                    | 38.00                   |
| B&W    | PDF 1.4             | 200        | single sided  | 92.40               | 3.34                     | 19.00                   |
|        |                     |            | double sided  | 151.38              | 5.85                     | 34.00                   |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: A4

|        | Scanning Mode       |            |               | Measurement result |                     |                     |
|--------|---------------------|------------|---------------|--------------------|---------------------|---------------------|
|        | File format version | Resolution | Scanning side | scEFTP 1setA (ipm) | scEFTP 30secA (ipm) | scESAT 30secA (ipm) |
| Colour | PDF 1.4             | 200        | single sided  | 44.52              | 117.19              | 129.96              |
|        |                     |            | double sided  | 41.73              | 226.89              | 255.23              |
| B&W    | PDF 1.4             | 200        | single sided  | 44.98              | 115.42              | 128.19              |
|        |                     |            | double sided  | 49.58              | 228.66              | 252.78              |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: A4

|        | Scanning Mode       |            |               | Measurement result |                     |                          |                         |
|--------|---------------------|------------|---------------|--------------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 1setF (ipm) | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 29.59              | 86.37               | 5.85                     | 19                      |
|        |                     |            | double sided  | 21.90              | 124.95              | 11.98                    | 38                      |
| B&W    | PDF 1.4             | 200        | single sided  | 23.20              | 92.40               | 3.34                     | 19                      |
|        |                     |            | double sided  | 23.47              | 151.38              | 5.85                     | 34                      |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

|                            | Test System Parameters     |   |
|----------------------------|----------------------------|---|
|                            | Item                       | Value   |
| System                     | Computer name              | HP Compaq Elite 8300 Small Form Factor                |
|                            | Processor                  | Intel Core i7 -3770, 3.4 GHz                          |
|                            | System Chip Set            | Intel C216 Chipset Family SMBus Host Controller       |
|                            | System Board               | System devices, default system BIOS                   |
|                            | System Memory              | 4 GB  |
|                            | Hard Drive Subsystem       | Standard disk drive (Seagate)                         |
|                            | Video Subsystem            | AMD Radeon HD 6350                                    |
|                            | Optical Drive              | HP DVD A DH16aCSHR ATA                                |
|                            | I/O Subsystem              | Builtin   |
|                            | USB Subsystem              | USB 2.0/3.0   |
|                            | Operating System           | Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1 |
| Scanning Device Connection | Location of network folder | PC  |
|                            | Internet Protocol          | IPv4  |
|                            | Transfer Protocol          | SMB   |
|                            | Hub                        | Trendnet Router and Gbit Switch                       |
|                            | Network Speed              | TCP 10/1000 Mbit Ethernet                             |
|                            | Connetion Cable            | Cat6 Straight cable                                   |
|                            | Wireless router            | No use  |
|                            | Others                     | No use  |



ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - Tabloid

|  | Machine Setup Information |                                  |
|--|---------------------------|----------------------------------|
|  | Test Start Date and Time  | 1/22/2020 22:24                  |
|  | Tester                    | AW                               |
|  | Machine name/model        | HP Color LaserJet Flow MFP M776Z |
|  | Colour or B&W             | Colour                           |
|  | Configuration (options)   | Default                          |
|  | Temperature and Humidity  | 75 degF / 24 degC 42.0 %rH       |
|  | Voltage                   | 110V                             |
|  | Test End Date and Time    | 1/27/2020 20:24                  |

|                  | Preset Item                  | Preset Value                             |
|------------------|------------------------------|--|
| Mode and Setting | Scanning resolution          | default (200 dpi)                        |
|                  | Colour or grey scale/B&W     | default (colour)                         |
|                  | Duplex / simplex             | default (simplex)                        |
|                  | Original page size           | default (A4)                             |
|                  | Paper feed orientation       | default (long edge)                      |
|                  | Scan destination             | default (shared network)                 |
|                  | Storing File Type            | default (PDF-multi)                      |
|                  | Auto scan quality adjustment | default (factory preset default setting) |
| ADF Paper-path   | Paper feed direction         | default (long edge)                      |
|                  | Output orientation           | default                                  |
|                  | Scanning unit                | default (duplex ADF)                     |

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: Tabloid

|        | Scanning Mode       |            |               | Measurement result  |
|--------|---------------------|------------|---------------|---------------------|
|        | File format version | Resolution | Scanning side | scESAT 30secA (ipm) |
| Colour | PDF 1.4             | 200        | single sided  | 71.60               |
|        |                     |            | double sided  | 142.17              |
| B&W    | PDF 1.4             | 200        | single sided  | 70.96               |
|        |                     |            | double sided  | 141.32              |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: Tabloid

|        | Scanning Mode       |            |               | Measurement result  |                          |                         |
|--------|---------------------|------------|---------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 48.20               | 6.55                     | 12.00                   |
|        |                     |            | double sided  | 77.10               | 12.42                    | 21.00                   |
| B&W    | PDF 1.4             | 200        | single sided  | 51.98               | 3.48                     | 11.00                   |
|        |                     |            | double sided  | 88.43               | 6.42                     | 20.00                   |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

| Summary Report: Tabloid   |                     |            |               |                    |                     |                     |
|---|---------------------|------------|---------------|--------------------|---------------------|---------------------|
|   | Scanning Mode       |            |               | Measurement result |                     |                     |
|   | File format version | Resolution | Scanning side | scEFTP 1setA (ipm) | scEFTP 30secA (ipm) | scESAT 30secA (ipm) |
| Colour  | PDF 1.4             | 200        | single sided  | 36.92              | 65.37               | 71.6                |
|   |                     |            | double sided  | 47.62              | 129.88              | 142.17              |
| B&W   | PDF 1.4             | 200        | single sided  | 35.86              | 65.05               | 70.96               |
|   |                     |            | double sided  | 49.43              | 128.84              | 141.32              |
| Notes   |                     |            |               |                    |                     |                     |
| 1) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . |                     |            |               |                    |                     |                     |
| 2) For the B/W results, the device scan setting is set to "Scan in B/W".  |                     |            |               |                    |                     |                     |

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: Tabloid

|        | Scanning Mode       |            |               | Measurement result |                     |                          |                         |
|--------|---------------------|------------|---------------|--------------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 1setF (ipm) | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 19.21              | 48.20               | 6.55                     | 12                      |
|        |                     |            | double sided  | 21.27              | 77.10               | 12.42                    | 21                      |
| B&W    | PDF 1.4             | 200        | single sided  | 19.59              | 51.98               | 3.48                     | 11                      |
|        |                     |            | double sided  | 23.14              | 88.43               | 6.42                     | 20                      |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

|                            | Test System Parameters     |   |
|----------------------------|----------------------------|---|
|                            | Item                       | Value   |
| System                     | Computer name              | HP Compaq Elite 8300 Small Form Factor                |
|                            | Processor                  | Intel Core i7 -3770, 3.4 GHz                          |
|                            | System Chip Set            | Intel C216 Chipset Family SMBus Host Controller       |
|                            | System Board               | System devices, default system BIOS                   |
|                            | System Memory              | 4 GB  |
|                            | Hard Drive Subsystem       | Standard disk drive (Seagate)                         |
|                            | Video Subsystem            | AMD Radeon HD 6350                                    |
|                            | Optical Drive              | HP DVD A DH16aCSHR ATA                                |
|                            | I/O Subsystem              | Builtin   |
|                            | USB Subsystem              | USB 2.0/3.0   |
|                            | Operating System           | Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1 |
| Scanning Device Connection | Location of network folder | PC  |
|                            | Internet Protocol          | IPv4  |
|                            | Transfer Protocol          | SMB   |
|                            | Hub                        | Trendnet Router and Gbit Switch                       |
|                            | Network Speed              | TCP 10/1000 Mbit Ethernet                             |
|                            | Connetion Cable            | Cat6 Straight cable                                   |
|                            | Wireless router            | No use  |
|                            | Others                     | No use  |

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - A3

|  | Machine Setup Information |                                  |
|--|---------------------------|----------------------------------|
|  | Test Start Date and Time  | 1/22/2020 22:24                  |
|  | Tester                    | AW                               |
|  | Machine name/model        | HP Color LaserJet Flow MFP M776Z |
|  | Colour or B&W             | Colour                           |
|  | Configuration (options)   | Default                          |
|  | Temperature and Humidity  | 75 degF / 24 degC 42.0 %rH       |
|  | Voltage                   | 110V                             |
|  | Test End Date and Time    | 1/27/2020 20:24                  |

|                  | Preset Item                  | Preset Value                             |
|------------------|------------------------------|--|
| Mode and Setting | Scanning resolution          | default (200 dpi)                        |
|                  | Colour or grey scale/B&W     | default (colour)                         |
|                  | Duplex / simplex             | default (simplex)                        |
|                  | Original page size           | default (A4)                             |
|                  | Paper feed orientation       | default (long edge)                      |
|                  | Scan destination             | default (shared network)                 |
|                  | Storing File Type            | default (PDF-multi)                      |
|                  | Auto scan quality adjustment | default (factory preset default setting) |
| ADF Paper-path   | Paper feed direction         | default (long edge)                      |
|                  | Output orientation           | default                                  |
|                  | Scanning unit                | default (duplex ADF)                     |

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: A3

|        | Scanning Mode       |            |               | Measurement result  |
|--------|---------------------|------------|---------------|---------------------|
|        | File format version | Resolution | Scanning side | scESAT 30secA (ipm) |
| Colour | PDF 1.4             | 200        | single sided  | 72.33               |
|        |                     |            | double sided  | 143.72              |
| B&W    | PDF 1.4             | 200        | single sided  | 71.65               |
|        |                     |            | double sided  | 143.77              |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: A3

|        | Scanning Mode       |            |               | Measurement result  |                          |                         |
|--------|---------------------|------------|---------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 48.20               | 6.31                     | 11.00                   |
|        |                     |            | double sided  | 76.23               | 12.29                    | 21.00                   |
| B&W    | PDF 1.4             | 200        | single sided  | 51.88               | 3.87                     | 12.00                   |
|        |                     |            | double sided  | 88.66               | 6.70                     | 21.00                   |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: A3

|        | Scanning Mode       |            |               | Measurement result |                     |                     |
|--------|---------------------|------------|---------------|--------------------|---------------------|---------------------|
|        | File format version | Resolution | Scanning side | scEFTP 1setA (ipm) | scEFTP 30secA (ipm) | scESAT 30secA (ipm) |
| Colour | PDF 1.4             | 200        | single sided  | 36.07              | 66.67               | 72.33               |
|        |                     |            | double sided  | 42.39              | 129.82              | 143.72              |
| B&W    | PDF 1.4             | 200        | single sided  | 36.47              | 64.63               | 71.65               |
|        |                     |            | double sided  | 47.07              | 128.62              | 143.77              |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: A3

|        | Scanning Mode       |            |               | Measurement result |                     |                          |                         |
|--------|---------------------|------------|---------------|--------------------|---------------------|--------------------------|-------------------------|
|        | File format version | Resolution | Scanning side | scEFTP 1setF (ipm) | scEFTP 30secF (ipm) | File size 30secF (Mbyte) | Number of Sets (30secF) |
| Colour | PDF 1.4             | 200        | single sided  | 20.60              | 48.20               | 6.31                     | 11                      |
|        |                     |            | double sided  | 17.97              | 76.23               | 12.29                    | 21                      |
| B&W    | PDF 1.4             | 200        | single sided  | 21.30              | 51.88               | 3.87                     | 12                      |
|        |                     |            | double sided  | 22.58              | 88.66               | 6.70                     | 21                      |

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

|                            | Test System Parameters     |   |
|----------------------------|----------------------------|---|
|                            | Item                       | Value   |
| System                     | Computer name              | HP Compaq Elite 8300 Small Form Factor                |
|                            | Processor                  | Intel Core i7 -3770, 3.4 GHz                          |
|                            | System Chip Set            | Intel C216 Chipset Family SMBus Host Controller       |
|                            | System Board               | System devices, default system BIOS                   |
|                            | System Memory              | 4 GB  |
|                            | Hard Drive Subsystem       | Standard disk drive (Seagate)                         |
|                            | Video Subsystem            | AMD Radeon HD 6350                                    |
|                            | Optical Drive              | HP DVD A DH16aCSHR ATA                                |
|                            | I/O Subsystem              | Builtin   |
|                            | USB Subsystem              | USB 2.0/3.0   |
|                            | Operating System           | Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1 |
| Scanning Device Connection | Location of network folder | PC  |
|                            | Internet Protocol          | IPv4  |
|                            | Transfer Protocol          | SMB   |
|                            | Hub                        | Trendnet Router and Gbit Switch                       |
|                            | Network Speed              | TCP 10/1000 Mbit Ethernet                             |
|                            | Connetion Cable            | Cat6 Straight cable                                   |
|                            | Wireless router            | No use  |
|                            | Others                     | No use  |