

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet Enterprise MFP M680 & Managed MFP M680

Printing device and settings		
Test Start Date and Time	6/6/2014 17:10	
Tester	AH	
Machine name/model	HP Color LaserJet Enterprise MFP M680 & Managed MFP M680	
Colour or B&W	Colour	
FW Version	2302243 421968	
Temperature and Humidity	76 degF / 24 degC 21.35 %RH	
Voltage	110V	
Test End Date and Time	3/24/2015 16:13	

Item	Value
Driver Version	61.155.1.16824 (13304 196-187)
Media/Quality Setting	Default / Default
Simplex B&W Settings	print in grayscale
Duplex B&W Settings	print in grayscale
Setting N set count	Application
Collating function	Activated (application)
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 Manufacturer	HP / Xerox
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	14.3	45.0
	Duplex	18.4	40.5
B&W	Simplex	13.7	45.0
	Duplex	17.7	40.5

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 <http://www.hp.com/go/printerclaims>.  
 4) Print monitor not configured to follow device if the IP address changes.

Detailed Report: LETTER						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)		
Color Mode	Simplex - Adobe Reader	14.85	16.17 (1 set)	38.43 (10 sets)	41.60 (49 sets)	45.08
	Simplex - Word	13.94	17.21 (1 set)	38.78 (10 sets)	41.60 (49 sets)	45.09
	Simplex - Excel	13.82	17.36 (1 set)	38.50 (10 sets)	41.60 (49 sets)	45.08
	Simplex - Average	14.3	16.9 (1 set)	38.5 (10 sets)	41.6 (49 sets)	45.0
	Duplex - Adobe Reader	18.80	12.76 (1 set)	32.60 (9 sets)	32.60 (9 sets)	40.56
	Duplex - Word	18.21	13.18 (1 set)	32.88 (9 sets)	32.88 (9 sets)	40.56
	Duplex - Excel	18.01	13.30 (1 set)	32.68 (9 sets)	32.68 (9 sets)	40.56
	Duplex - Average	18.4	13.0 (1 set)	32.7 (9 sets)	32.7 (9 sets)	40.5
B&W mode (optional for color device)	Simplex - Adobe Reader	13.88	17.27 (1 set)	38.65 (10 sets)	38.55 (49 sets)	45.07
	Simplex - Word	13.57	17.68 (1 set)	38.92 (10 sets)	38.92 (49 sets)	45.07
	Simplex - Excel	13.36	17.95 (1 set)	38.98 (10 sets)	38.98 (49 sets)	45.10
	Simplex - Average	13.7	17.6 (1 set)	38.8 (10 sets)	38.5 (49 sets)	45.0
	Duplex - Adobe Reader	17.90	13.40 (1 set)	32.88 (9 sets)	32.88 (9 sets)	40.58
	Duplex - Word	17.66	13.58 (1 set)	32.94 (9 sets)	32.94 (9 sets)	40.58
	Duplex - Excel	17.44	13.74 (1 set)	33.24 (9 sets)	33.24 (9 sets)	40.58
	Duplex - Average	17.7	13.5 (1 set)	33.0 (9 sets)	33.0 (9 sets)	40.5

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 <http://www.hp.com/go/printerclaims>.  
 4) Print monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	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	Built-in
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Full Detailed Test Report - A4**

HP Color LaserJet Enterprise MFP M680 & Managed MFP M680

Printing device and settings	
Test Start Date and Time	6/6/2014 17:10
Tester	AH
Machine name/model	HP Color LaserJet Enterprise MFP M680 & Managed MFP M680
Colour or B&W	Colour
FW Version	2302243_421968
Temperature and Humidity	76 degF / 24 degC 21.35 %RH
Voltage	110V
Test End Date and Time	3/24/2015 16:13

Item	Value	
Mode and Setting	Driver Version	61.155.1.16824 (13304_196-187)
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale
	Duplex B&W Settings	print in grayscale
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
Paper	Duplexing Unit (Yes/No)	Yes
	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: A4			
Office Category	Test for Color Device	FSOT (seconds)	ESAT (ipm)
Colour	Simplex	14.4	42.7
	Duplex	18.9	38.6
B&W	Simplex	13.9	42.7
	Duplex	18.1	38.6

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 <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A4						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)		
Colour Mode	Simplex - Adobe Reader	14.67	16.35 (1 set)	36.07 (9 sets)	39.39 (47 sets)	42.70
	Simplex - Word	14.28	16.80 (1 set)	36.41 (9 sets)		42.71
	Simplex - Excel	14.20	16.90 (1 set)	36.45 (9 sets)		42.73
	Simplex - Average	14.4	16.6	36.3	39.3	42.7
	Duplex - Adobe Reader	19.71	12.18 (1 set)	31.24 (9 sets)		38.66
	Duplex - Word	18.58	12.90 (1 set)	31.62 (9 sets)		38.66
	Duplex - Excel	18.41	13.02 (1 set)	31.62 (9 sets)		38.66
	Duplex - Average	18.9	12.7	31.4		38.6
B&W mode (optional for color device)	Simplex - Adobe Reader	14.08	17.03 (1 set)	36.39 (9 sets)	36.49 (47 sets)	42.72
	Simplex - Word	13.73	17.47 (1 set)	36.74 (9 sets)		42.71
	Simplex - Excel	13.63	17.59 (1 set)	36.83 (9 sets)		42.71
	Simplex - Average	13.9	17.3	36.6	36.4	42.7
	Duplex - Adobe Reader	18.33	13.08 (1 set)	31.56 (9 sets)		38.66
	Duplex - Word	18.05	13.28 (1 set)	31.84 (9 sets)		38.66
	Duplex - Excel	17.87	13.42 (1 set)	31.88 (9 sets)		38.66
	Duplex - Average	18.1	13.2	31.7		38.6

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 <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	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	Built-in
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
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 Enterprise MFP M680 & Managed MFP M680

Printing device and settings	
Test Start Date and Time	6/6/2014 17:10
Tester	AH
Machine name/model	HP Color LaserJet Enterprise MFP M680 & Managed MFP M680
Colour or B&W	Colour
FW Version	2302243_421968
Configuration (options)	Default
Controller	5.48
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 17.42 %rH
Voltage	110V
Test End Date and Time	3/24/2015 16:13

Item	Value
<b>Mode and Setting</b>	
PDL and driver version	61.155.1.16824 (13304_196-187)
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
<b>Paper</b>	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
<b>Paper Path</b>	
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	9.91
	Duplex	15.25
B&W	Simplex	9.17
	Duplex	14.96

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 <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.  
 5) Page counts were 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	9.53	10.08	10.10	9.91	21 Seconds
	FPOT from Ready - Duplex	15.05	14.98	15.70	15.25	21 Seconds
	FPOT from Sleep - Simplex			17.36		64 Minutes
	Recovery Time			7.3		
	FPOT from Off - Simplex			207.75		
	Warm-up Time			197.65		
B&W Mode	FPOT from Ready - Simplex	8.96	9.15	9.39	9.17	21 Seconds
	FPOT from Ready - Duplex	14.36	14.72	15.80	14.96	21 Seconds
	FPOT from Sleep - Simplex			18.13		64 Minutes
	Recovery Time			8.7		
	FPOT from Off - Simplex			210.40		
	Warm-up Time			201.01		

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 <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.  
 5) Page counts were collected after completion of the tests.  
 6) Details for FPOT from Sleep are shown below.

Test System Parameters		
Item	Value	
Test System	Computer	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 8350
	Optical Drive	HP DVD A DH16aCASHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 61.155.1.16824 (13304_196-187)

**ISO/IEC 17629 First Print Out Time Report: Office Category**  
**Full Detailed Test Report - A4**

Printing device and settings	
Test Start Date and Time	6/6/2014 17:10
Tester	AH
Machine name/model	HP Color LaserJet Enterprise MFP M680 & Managed MFP M680
Colour or B&W	Colour
FW Version	2302243_421968
Configuration (options)	Default
Controller	5.48
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 17.42 %RH
Voltage	110V
Test End Date and Time	3/24/2015 16:13

  

Item	Value
Mode and Setting	PDL and driver version 61.155.1.16824 (13304_196-187)
	Print Quality mode default
	B&W settings default
	Paper feed orientation Short Edge
Paper	Paper type setting default
	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: A4		
		<b>FPOT from Ready (seconds)</b>
Colour	Simplex	9.90
	Duplex	15.39
B&W	Simplex	9.31
	Duplex	14.64

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 <http://www.hp.com/go/printerclaims>.  
4) Port monitor not configured to follow device if the IP address changes.  
5) Page counts were 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	9.75	9.73	10.20	9.90	21 Seconds
	FPOT from Ready - Duplex	15.13	15.05	15.97	15.39	21 Seconds
	FPOT from Sleep - Simplex			18.00		64 Minutes
	Recovery Time			7.8		
	FPOT from Off - Simplex			203.15		
	Warm-up Time			192.95		
B&W Mode	FPOT from Ready - Simplex	9.07	9.20	9.65	9.31	21 Seconds
	FPOT from Ready - Duplex	14.57	14.39	14.96	14.64	21 Seconds
	FPOT from Sleep - Simplex			17.66		64 Minutes
	Recovery Time			8.0		
	FPOT from Off - Simplex			200.38		
	Warm-up Time			190.73		

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 <http://www.hp.com/go/printerclaims>.  
4) Port monitor not configured to follow device if the IP address changes.  
5) Page counts were collected after completion of the tests.  
6) Details for FPOT from Sleep are shown below.

Test System Parameters	
Item	Value
Computer	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	Built-in
USB Subsystem	USB 2.0/3.0

  

Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	61.155.1.16824 (13304_196-187)

# ISO/IEC 29183 Copy Productivity Report

## Full Detailed Test Report - LETTER

HP Color LaserJet Enterprise MFP M680 & Managed MFP M680

Machine Setup Information		
	Test Start Date and Time	7/8/2014 10:06
	Tester	AH
	Machine name/model	HP Color LaserJet Enterprise MFP M680 & Managed MFP M680
	Colour or B&W	Colour
	FW Version	2302243_421968
	Configuration (options)	Not Specified
	Temperature and Humidity	75 degF / 24 degC 41.11 %rH
	Test End Date and Time:	7/10/2014 15:21
Pre-set Item		
Pre-set Item	Pre-set Value	
Mode	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
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None
Paper	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: Letter		
	sFCOT	sESAT (ipm)
Color	9.7	45.0
B&W	10.1	45.0

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.

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Color	A	9.70	6.18	36.33	43.65	45.10
				26 sets	194 sets	
	B	9.62	6.23	36.37		45.09
				26 sets		
	C	9.63	6.22	36.06		45.09
				25 sets		
D	9.64	6.21	36.37		45.08	
			26 sets			
Average	9.7	6.2	36.2	43.6	45.0	
B&W	A	10.38	5.77	36.55	38.49	45.10
				26 sets	194 sets	
	B	9.21	6.51	35.70		45.09
				26 sets		
	C	10.41	5.75	35.76		45.08
				26 sets		
D	10.37	5.78	35.98		45.10	
			26 sets			
Average	10.1	5.9	35.9	38.4	45.0	

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.

# ISO/IEC 29183 Copy Productivity Report

## Full Detailed Test Report - A4

HP Color LaserJet Enterprise MFP M680 & Managed MFP M680

### Machine Setup Information

Test Start Date and Time	7/8/2014 10:06
Tester	AH
Machine name/model	HP Color LaserJet Enterprise MFP M680 & Managed MFP M680
Colour or B&W	Colour
FW Version	2302243_421968
Configuration (options)	Not Specified
Temperature and Humidity	75 degF / 24 degC 41.11 %rH
Test End Date and Time:	7/10/2014 15:21

	Pre-set Item	Pre-set Value
<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: A4		
	sFCOT	sESAT (ipm)
<b>Colour</b>	9.8	42.7
<b>B&amp;W</b>	9.8	42.7

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.

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
<b>Colour</b>	A	9.73	6.15	34.39	39.50	42.73
				25 sets	185 sets	
	B	9.73	6.15	34.23		42.72
				24 sets		
	C	9.71	6.17	34.15		42.74
				24 sets		
D	9.82	6.10	34.26		42.73	
			24 sets			
Average	9.8	6.1	34.2	39.5	42.7	
<b>B&amp;W</b>	A	9.54	6.27	34.18	36.53	42.73
				24 sets	185 sets	
	B	9.21	6.51	34.32		42.74
				24 sets		
	C	9.44	6.35	33.86		42.74
				24 sets		
D	10.70	5.60	34.12		42.72	
			24 sets			
Average	9.8	6.1	34.1	36.5	42.7	

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.

# ISO/IEC 24735 Copy Productivity Report

## Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	7/2/2014 12:41
Tester	AH
Machine name/model	HP Color LaserJet Enterprise MFP M680 & Managed MFP M680
Colour or B&W	Colour
FW Version	2302243_421968
Configuration (options)	Not Specified
Temperature and Humidity	73 degF / 23 degC 19.5 %rH
Test End Date and Time:	4/25/2018 10:03
Pre-set Item	
Pre-set Value	
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	13.65	17.57	37.12	41.68	45.09
			( 1 set )	8 sets	49 sets	
	1:2	20.58	11.64	29.90	<del>41.68</del>	40.58
			( 1 set )	7 sets	<del>49 sets</del>	
	2:2	22.72	10.54	28.56	<del>41.68</del>	40.58
			( 1 set )	7 sets	<del>49 sets</del>	
B&W mode	1:1	14.07	17.05	37.32	38.50	45.09
				8 sets	49 sets	
	1:2	20.20	11.86	29.80	<del>41.68</del>	40.58
				7 sets	<del>49 sets</del>	
	2:2	22.98	10.44	28.86	<del>41.68</del>	40.58
				7 sets	<del>49 sets</del>	

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

