

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f

Printing device and settings	
Test Start Date and Time	10/30/2020 12:04
Tester	NP
Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f
Colour or B&W	B&W
FW Version	2500213_000023
Temperature and Humidity	73 degF / 23 degC, 21 %rH
Voltage	110V
Test End Date and Time	11/13/2020 8:22
Item	Value
Mode and Setting	Driver Version 7.0.0.24832
	Media/Quality Setting Default / Default
	Simplex B&W Settings grayscale
	Duplex B&W Settings 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
Paper	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 B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	11.24	40.40
	Duplex	15.06	36.14

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 <http://w.w.hp.com/go/printerclaims>.
- 4) Port 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 only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average		(1 set)			
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	12.39	19.37 (1 set)	34.93 (7 sets)	39.34 (42 sets)	40.42
	Simplex - Word	10.72	22.38 (1 set)	36.22 (7 sets)		40.36
	Simplex - Excel	10.60	22.64 (1 set)	36.28 (7 sets)		40.43
	Simplex - Average	11.24	21.46 (1 set)	35.81 (6 sets)	39.3	40.40
	Duplex - Adobe Reader	16.25	14.76 (1 set)	28.96 (6 sets)		36.22
	Duplex - Word	14.54	16.50 (1 set)	29.52 (6 sets)		36.08
	Duplex - Excel	14.38	16.68 (1 set)	30.00 (6 sets)		36.14
	Duplex - Average	15.06	15.98 (1 set)	29.59 (6 sets)		36.14

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 <http://w.w.hp.com/go/printerclaims>.
- 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 iLDS DVD/CD RW 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
	Acrobat Reader DC
Print Driver	Microsoft Office Excel 2016
	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f

Printing device and settings	
Test Start Date and Time	10/30/2020 12:04
Tester	NP
Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f
Colour or B&W	B&W
FW Version	2500213_000023
Temperature and Humidity	73 degF / 23 degC, 21 %rH
Voltage	110V
Test End Date and Time	11/13/2020 8:22

Item	Value
Mode and Setting	Driver Version 7.0.0.24832
	Media/Quality Setting Default / Default
	Simplex B&W Settings grayscale
	Duplex B&W Settings 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
Paper	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: A4			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	11.59	38.38
	Duplex	15.44	34.52
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://w.w.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)				
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Colour Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average		(1 set)			
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	12.66	18.96 (1 set)	32.71 (6 sets)	37.14 (41 sets)	38.43
	Simplex - Word	11.13	21.56 (1 set)	33.89 (6 sets)		38.36
	Simplex - Excel	10.97	21.88 (1 set)	34.06 (6 sets)		38.35
	Simplex - Average	11.6	20.80 (1 set)	33.55 (6 sets)	37.1	38.38
	Duplex - Adobe Reader	16.53	14.50 (1 set)	27.68 (6 sets)		34.52
	Duplex - Word	14.98	16.02 (1 set)	28.60 (6 sets)		34.52
	Duplex - Excel	14.80	16.20 (1 set)	28.72 (6 sets)		34.52
	Duplex - Average	15.4	15.57 (1 set)	28.33 (6 sets)		34.52
	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://w.w.hp.com/go/printerclaims .					
	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 MLD5 DVD/CD RW 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
	Acrobat Reader DC
Print Driver	Microsoft Office Excel 2016
	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 LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f

Printing device and settings		
	Test Start Date and Time	10/30/2020 12:04
	Tester	NP
	Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f
	Colour or B&W	B&W
	FW Version	2500213_000023
	Temperature and Humidity	73 degF / 23 degC, 21 %rH
	Voltage	110V
	Test End Date and Time	11/13/2020 8:22
Item		Value
Mode and Setting	Driver Version	7.0.0.24832
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	grayscale
	Duplex B&W Settings	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
Paper	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

ISO Print Productivity Report: Feature Performance Test Summary

Printing Modes (Feature Adobe Reader - Office test file)		Feature Performance Ratio	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	Simplex		
A5, Portrait Feed, Simplex, Colour	Simplex		
Legal, Simplex, Colour	Simplex		
Legal, Duplex, Colour	Duplex		
A4, 1200 dpi, Simplex, Colour	Simplex		
Letter, 1200 dpi, Simplex, Colour	Simplex		
A4, HP High Speed, Simplex, Colour	Simplex		
Letter, HP High Speed, Simplex, Colour	Simplex		
A4, General Office, Simplex, Colour	Simplex		
Letter, General Office, Simplex, Colour	Simplex		
A5, Landscape Feed, Simplex, B/W	Simplex	134%	166%
A5, Portrait Feed, Simplex, B/W	Simplex		
Legal, Simplex, B/W	Simplex		
Legal, Duplex, B/W	Duplex		
A4, 1200 dpi, Simplex, B/W	Simplex		
Letter, 1200 dpi, Simplex, B/W	Simplex		
A4, HP High Speed, Simplex, B/W	Simplex	102%	105%
Letter, HP High Speed, Simplex, B/W	Simplex	102%	105%
A4, General Office, Simplex, B/W	Simplex		
Letter, General Office, Simplex, B/W	Simplex		

Notes:

- 1) All printing device and driver settings were default mode.
- 2) Test conducted with 8-paper Office Feature Performance file.
- 3) For more information see <http://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 Feature Adobe Reader - Office test file (8-page)		Base Printing Mode		Feature Performance			
		FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour							
A5, Portrait Feed, Simplex, Colour							
Legal, Simplex, Colour							
Legal, Duplex, Colour							
A4, 1200 dpi, Simplex, Colour							
Letter, 1200 dpi, Simplex, Colour							
A4, HP High Speed, Simplex, Colour							
Letter, HP High Speed, Simplex, Colour							
A4, General Office, Simplex, Colour							
Letter, General Office, Simplex, Colour							
A5, Landscape Feed, Simplex, B/W	19.14	38.33		14.39	63.8	134%	166%
A5, Portrait Feed, Simplex, B/W	19.14	38.33					
Legal, Simplex, B/W	18.57	40.4					
Legal, Duplex, B/W	18.57	40.4					
A4, 1200 dpi, Simplex, B/W	19.14	38.33					
Letter, 1200 dpi, Simplex, B/W	18.57	40.4					
A4, HP High Speed, Simplex, B/W	19.14	38.33	18.82	40.3	102%	105%	
Letter, HP High Speed, Simplex, B/W	18.57	40.4	18.21	42.5	102%	105%	
A4, General Office, Simplex, B/W	19.14	38.33					
Letter, General Office, Simplex, B/W	18.57	40.4					

Notes:

- 1) All printing device and driver settings were default mode.
- 2) Test conducted with 8-paper Office Feature Performance file.
- 3) For more information see <http://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	Built-in
I/O	USB Subsystem	USB 2.0/3.0
	YCP/IP	10/1000
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Office Word 2016
	Acrobat Reader DC	Acrobat Reader DC
	Microsoft Office Excel 2016	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 LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f

Printing device and settings		
Test Start Date and Time	10/30/2020 11:30	
Tester	NP	
Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f	
Colour or B&W	B&W	
FW Version	2500213_000023	
Configuration (options)	Default	
Controller	S.111	
Printing device page count	Not Specified	
Printing supplies page count	Not Specified	
Temperature and Humidity	73 degF / 23 degC 21 %rH	
Voltage	110V	
Test End Date and Time	11/13/2020 7:05	

Item		Value
Mode and Setting	PDL and driver version	7.0.0.24832
	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: Letter		
		FPOT from Ready (seconds)
B&W	Simplex	6.23
	Duplex	

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					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	6.09	6.02	6.56	6.23	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			8.17		75 Minutes
	Recovery Time			1.6		
	FPOT from Off - Simplex			191.90		
	Warm-up Time			185.34		

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.

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	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep	8.17	8.18	8.16	N/A	Adobe Reader	75 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	8.08	8.10	8.06	N/A	Adobe Reader	15 Minutes

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
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Office 2016
	Print Driver	Adobe Reader DC

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

Full Detailed Test Report - A4

HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f

Printing device and settings		
Test Start Date and Time	10/30/2020 11:30	
Tester	NP	
Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f	
Colour or B&W	B&W	
FW Version	2500213_000023	
Configuration (options)	Default	
Controller	S.111	
Printing device page count	Not Specified	
Printing supplies page count	Not Specified	
Temperature and Humidity	73 degF / 23 degC 21 %rH	
Voltage	110V	
Test End Date and Time	11/13/2020 7:05	

Item		Value
Mode and Setting	PDL and driver version	7.0.0.24832
	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

FPOT from Ready (seconds)		
B&W	Simplex	6.38
	Duplex	

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					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	6.40	6.11	6.63	6.38	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			8.30		75 Minutes
	Recovery Time			1.7		
	FPOT from Off - Simplex			189.08		
	Warm-up Time			182.45		

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.

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	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep	8.30	8.32	8.28	N/A	Adobe Reader	75 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	7.73	7.74	7.72	N/A	Adobe Reader	15 Minutes

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 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 Office 2016
	Print Driver	Adobe Reader DC

Full Detailed Test Report - LETTER

Machine Setup Information

	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)
B&W	6.58	40.40

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

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	6.58	9.11	34.92	39.55	40.40
				22 sets	167 sets	
	B					
	C					
	D					
	Average	6.58	9.11	34.92	39.55	40.40

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

Machine Setup Information

Test Start Date and Time	11/5/2020 12:00
Tester	NP
Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f
Colour or B&W	B&W
FW Version	2500213_000023
Configuration (options)	Not Specified
Temperature and Humidity	73 degF / 23 degC 21 %rH
Test End Date and Time:	11/24/2020 7:20

	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: A4		
	sFCOT	sESAT (ipm)
B&W	6.79	38.36
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		

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	6.79	8.83	33.29	37.54	38.36
				22 sets	156 sets	
	B					
	C					
	D					
	Average	6.79	8.83	33.29	37.54	38.36

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

Feature Copy Performance Report

HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f

HP/Non ISO Copy Feature Report			
Feature Performance Copying Modes		Feature Performance Ratio	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A4, HP High Speed, Simplex, Colour	Simplex		
Letter, HP High Speed, Simplex, Colour	Simplex		
A4, HP High Speed, Simplex, B/W	Simplex	102%	105%
Letter, HP High Speed, Simplex, B/W	Simplex	101%	105%

Notes

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

HP/Non ISO Copy Feature Report - Full Report						
Copying Modes	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A4, HP High Speed, Simplex, Colour						
Letter, HP High Speed, Simplex, Colour						
A4, HP High Speed, Simplex, B/W	6.79	38.36	6.71	40.33	102%	105%
Letter, HP High Speed, Simplex, B/W	6.58	40.40	6.57	42.50	101%	105%

Notes

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 - LETTER

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						
			(1 set)				
	1:2						
			(1 set)				
	2:2						
			(1 set)				
B&W mode	1:1	13.73	17.48	33.96	39.16	40.37	
				7 sets	42 sets		
	1:2	21.46	11.18	26.30	33.98	36.12	
				6 sets	39 sets		
	2:2	17.15	13.98	28.30	34.4	36.02	
				6 sets	39 sets		
	Notes						
	Reports located: http://www.hp.com/go/printerclaims						

Full Detailed Test Report - A4

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

Detailed Report: A4						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Colour Mode	1:1		(1 set)			
	1:2		(1 set)			
	2:2		(1 set)			
B&W mode	1:1	14.07	17.06	31.61	37.18	38.35
				6 sets	40 sets	
	1:2	21.89	10.96	25.30	32.28	34.50
				6 sets	37 sets	
	2:2	17.44	13.76	27.16	32.78	34.50
				6 sets	37 sets	
Notes Reports located: http://www.hp.com/go/printerclaims						

Feature Copy Performance Report

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	Feature Performance Ratio
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Notes

	Pre-Disaster Model	Post-Disaster Model
Model 1	Model 2	Model 3
Model 4	Model 5	Model 6
Model 7	Model 8	Model 9
Model 10	Model 11	Model 12
Model 13	Model 14	Model 15
Model 16	Model 17	Model 18
Model 19	Model 20	Model 21
Model 22	Model 23	Model 24
Model 25	Model 26	Model 27
Model 28	Model 29	Model 30
Model 31	Model 32	Model 33
Model 34	Model 35	Model 36
Model 37	Model 38	Model 39
Model 40	Model 41	Model 42
Model 43	Model 44	Model 45
Model 46	Model 47	Model 48
Model 49	Model 50	Model 51
Model 52	Model 53	Model 54
Model 55	Model 56	Model 57
Model 58	Model 59	Model 60
Model 61	Model 62	Model 63
Model 64	Model 65	Model 66
Model 67	Model 68	Model 69
Model 70	Model 71	Model 72
Model 73	Model 74	Model 75
Model 76	Model 77	Model 78
Model 79	Model 80	Model 81
Model 82	Model 83	Model 84
Model 85	Model 86	Model 87
Model 88	Model 89	Model 90
Model 91	Model 92	Model 93
Model 94	Model 95	Model 96
Model 97	Model 98	Model 99
Model 100	Model 101	Model 102
Model 103	Model 104	Model 105
Model 106	Model 107	Model 108
Model 109	Model 110	Model 111
Model 112	Model 113	Model 114
Model 115	Model 116	Model 117
Model 118	Model 119	Model 120
Model 121	Model 122	Model 123
Model 124	Model 125	Model 126
Model 127	Model 128	Model 129
Model 130	Model 131	Model 132
Model 133	Model 134	Model 135
Model 136	Model 137	Model 138
Model 139	Model 140	Model 141
Model 142	Model 143	Model 144
Model 145	Model 146	Model 147
Model 148	Model 149	Model 150
Model 151	Model 152	Model 153
Model 154	Model 155	Model 156
Model 157	Model 158	Model 159
Model 160	Model 161	Model 162
Model 163	Model 164	Model 165
Model 166	Model 167	Model 168
Model 169	Model 170	Model 171
Model 172	Model 173	Model 174
Model 175	Model 176	Model 177
Model 178	Model 179	Model 180
Model 181	Model 182	Model 183
Model 184	Model 185	Model 186
Model 187	Model 188	Model 189
Model 190	Model 191	Model 192
Model 193	Model 194	Model 195
Model 196	Model 197	Model 198
Model 199	Model 200	Model 201
Model 202	Model 203	Model 204
Model 205	Model 206	Model 207
Model 208	Model 209	Model 210
Model 211	Model 212	Model 213
Model 214	Model 215	Model 216
Model 217	Model 218	Model 219
Model 220	Model 221	Model 222
Model 223	Model 224	Model 225
Model 226	Model 227	Model 228
Model 229	Model 230	Model 231
Model 232	Model 233	Model 234
Model 235	Model 236	Model 237
Model 238	Model 239	Model 240
Model 241	Model 242	Model 243
Model 244	Model 245	Model 246
Model 247	Model 248	Model 249
Model 250	Model 251	Model 252
Model 253	Model 254	Model 255
Model 256	Model 257	Model 258
Model 259	Model 260	Model 261
Model 262	Model 263	Model 264
Model 265	Model 266	Model 267
Model 268	Model 269	Model 270
Model 271	Model 272	Model 273
Model 274	Model 275	Model 276
Model 277	Model 278	Model 279
Model 280	Model 281	Model 282
Model 283	Model 284	Model 285
Model 286	Model 287	Model 288
Model 289	Model 290	Model 291
Model 292	Model 293	Model 294
Model 295	Model 296	Model 297
Model 298	Model 299	Model 300
Model 301	Model 302	Model 303
Model 304	Model 305	Model 306
Model 307	Model 308	Model 309
Model 310	Model 311	Model 312

Notes

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information		
Test Start Date and Time	11/13/2020 10:17	
Tester	NP	
Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f	
Colour or B&W	B&W	
Configuration (options)	Default	
Temperature and Humidity	73 degF / 23 degC 21 %rH	
Voltage	110V	
Test End Date and Time	11/13/2020 13:49	

Mode and Setting	Preset Item	Preset Value
	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)
	Paper feed direction	default (long edge)
ADF Paper-path	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	31.01
			double sided	62.03
B&W	PDF 1.4	200	single sided	31.02
			double sided	62.14

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	27.80	1.62	5.00
			double sided	53.83	3.66	9.00
B&W	PDF 1.4	200	single sided	27.75	0.88	5.00
			double sided	54.24	1.68	9.00

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	22.42	28.75	31.01
			double sided	33.23	56.51	62.03
B&W	PDF 1.4	200	single sided	22.40	28.7	31.02
			double sided	33.19	56.7	62.14

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	19.84	27.80	1.62	5
			double sided	27.27	53.83	3.66	9
B&W	PDF 1.4	200	single sided	19.79	27.75	0.88	5
			double sided	27.23	54.24	1.68	9

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 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
	Operating System	Win 10 Enterprise 64 Bit (10240)
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
	Connction 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	11/13/2020 10:17
	Tester	NP
	Machine name/model	HP LaserJet Enterprise MFP M430f & LaserJet Enterprise MFP M431f & LaserJet Managed MFP E42540f
	Colour or B&W	B&W
	Configuration (options)	Default
	Temperature and Humidity	73 degF / 23 degC 21 %rH
	Voltage	110V
	Test End Date and Time	11/13/2020 13:49

Mode and Setting	Preset Item	Preset Value
	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)
	Paper feed direction	default (long edge)
ADF Paper-path	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	29.39
			double sided	59.06
B&W	PDF 1.4	200	single sided	29.44
			double sided	59.06

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: 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	26.59	1.63	5.00
			double sided	51.82	3.06	9.00
B&W	PDF 1.4	200	single sided	26.58	0.84	5.00
			double sided	51.84	1.55	9.00

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	21.79	27.46	29.39
			double sided	32.19	54.18	59.06
B&W	PDF 1.4	200	single sided	21.62	27.44	29.44
			double sided	32.80	54.21	59.06

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	19.36	26.59	1.63	5
			double sided	26.49	51.82	3.06	9
B&W	PDF 1.4	200	single sided	19.19	26.58	0.84	5
			double sided	26.93	51.84	1.55	9

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 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 DVDWRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (10240)
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
	Connction Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use