

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Enterprise Flow MFP M5282F

Printing device and settings	
Test Start Date and Time	2/27/2020 8:38
Tester	NP
Machine name/model	HP LaserJet Enterprise Flow MFP M5282F
Colour or B&W	B&W
PW Version	2410035_056348
Temperature and Humidity	71 degF / 21 degC 22.0 %rH
Voltage	110V
Test End Date and Time	3/11/2020 10:47

Mode and Setting	
Mode and Setting	Item
	Driver Version
	Media/Quality Setting
	Simplex B&W Settings
	Duplex B&W Settings
Paper Path	Setting N set count
	Collating function
	Paper Sending Direction
	Paper Size Setting
	Paper Feeding Tray
Paper	Paper Exit
	Output Orientation
	Duplexing Unit (Yes/No)
	Paper Manufacturer
	Paper Weight
	Paper Size
	Paper type/name

Summary Report: Letter			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	9.69	45.86
	Duplex	13.56	38.78

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: 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					
	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	9.50	25.25 (1 set)	40.97 (7 sets)	45.01 (48 sets)	45.90
	Simplex - Word	9.79	24.50 (1 set)	40.67 (7 sets)		45.85
	Simplex - Excel	9.76	24.58 (1 set)	40.12 (7 sets)		45.84
	Simplex - Average	9.69	24.77	40.58	45.0	45.86
	Duplex - Adobe Reader	13.66	17.56 (1 set)	31.74 (6 sets)		38.82
	Duplex - Word	13.30	18.04 (1 set)	31.98 (6 sets)		38.76
	Duplex - Excel	13.70	17.52 (1 set)	32.14 (6 sets)		38.78
	Duplex - Average	13.56	17.70	31.95		38.78

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 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/BD GUD1N
IO Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCPIP	10/100/1000
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 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Enterprise Flow MFP M5282F

Printing device and settings	
Test Start Date and Time	2/27/2020 8:38
Tester	NP
Machine name/model	HP LaserJet Enterprise Flow MFP M5282F
Colour or B&W	B&W
PW Version	2410035 055348
Temperature and Humidity	71 degF / 21 degC 22.0 %rH
Voltage	110V
Test End Date and Time	3/11/2020 10:47

Mode and Setting	Value	
	Item	Value
Mode and Setting	Driver Version	8.0.0.24630
	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	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	10.27	43.35
	Duplex	13.66	37.14

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://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 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					
	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	9.79	24.51 (1 set)	38.78 (7 sets)	42.46 (45 sets)	43.34
	Simplex - Word	10.82	22.18 (1 set)	38.56 (7 sets)		43.35
	Simplex - Excel	10.18	23.58 (1 set)	38.29 (7 sets)		43.38
	Simplex - Average	10.3	23.42 (1 set)	38.54 (7 sets)	42.5	43.35
	Duplex - Adobe Reader	13.36	17.96 (1 set)	30.96 (6 sets)		37.12
	Duplex - Word	13.77	17.42 (1 set)	30.74 (6 sets)		37.14
	Duplex - Excel	13.85	17.32 (1 set)	30.62 (6 sets)		37.16
	Duplex - Average	13.7	17.56 (1 set)	30.77 (6 sets)		37.14

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://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 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
IO Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCPIP	10/100/1000
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 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test
HP LaserJet Enterprise Flow MFP M5282F

Printing device and settings	
Test Start Date and Time	12/27/2020 8:38
Tester	NP
Machine name/model	HP LaserJet Enterprise Flow MFP M5282F
Colour or B&W	B&W
PW Version	2410035_056348
Temperature and Humidity	71 degF / 21 degC 22.0 %rH
Voltage	110V
Test End Date and Time	3/11/2020 10:47

Mode and Setting	Item	Value
	Driver Version	8.0.0.24630
Media/Quality Setting	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	Tray 2
Paper	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
Paper	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	138%	152%
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	104%	116%
Letter, HP High Speed, Simplex, B/W	Simplex	104%	116%
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://www.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	15.49	43.36	11.26	66.1	138%	152%
A5, Portrait Feed, Simplex, B/W	15.49	43.36				
Legal, Simplex, B/W	14.97	45.88				
Legal, Duplex, B/W	14.97	45.88				
A4, 1200 dpi, Simplex, B/W	15.49	43.36				
Letter, 1200 dpi, Simplex, B/W	14.97	45.88				
A4, HP High Speed, Simplex, B/W	15.49	43.36	14.94	50.6	104%	116%
Letter, HP High Speed, Simplex, B/W	14.97	45.88	14.41	53.4	104%	116%
A4, General Office, Simplex, B/W	15.49	43.36				
Letter, General Office, Simplex, B/W	14.97	45.88				
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://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 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/BD GUD1N
I/O Subsystem	Built-in
USB Subsystem	USB 2.0/3.0
TCPIP	TCPIP: 10/100
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

Full Detailed Test Report - LETTER

Test Start Date and Time	2/27/2020 10:51
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0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
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Notes		
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Notes

Full Detailed Test Report - A4

HP LaserJet Enterprise Flow MFP M528ZF

Summary Report: A4		
	sFCOT	sESAT (ipm)
B&W	6.41	43.31

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	6.41	9.35	36.04 23 sets	42.20 178 sets	43.31
	B					
	C					
	D					
	Average	6.41	9.35	36.04	42.20	43.31

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

ISO/IEC 29183 Copy Productivity Report

Feature Copy Performance Report

HP LaserJet Enterprise Flow MFP M528ZF

Machine Setup Information

Test Start Date and Time	2/27/2020 10:51
Tester	NP
Machine name/model	HP LaserJet Enterprise Flow MFP M528ZF
Colour or B&W	B&W
FW Version	2410035 055348
Configuration (options)	Not Specified
Temperature and Humidity	71 degF / 21 degC 22.0 %rH
Test End Date and Time	3/11/2020 15:03

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Model	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

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	110%	116%
Letter, HP High Speed, Simplex, B/W	Simplex	108%	116%

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

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	6.41	43.31	5.85	50.60	110%	116%
Letter, HP High Speed, Simplex, B/W	6.40	45.86	5.96	53.35	108%	116%

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	11.84	20.27	39.02	44.71	45.88
				7 sets	53 sets	
	1:2	16.86	14.22	29.34		38.76
				6 sets		
	2:2	16.43	14.60	29.94		38.68
				6 sets		

Notes

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

Full Detailed Test Report - A4

ISO/IEC 24735 Copy Productivity Report						
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	12.03	19.96	36.98	42.18	43.37
				7 sets	51 sets	
	1:2	17.48	13.72	28.58		37.04
				6 sets		
	2:2	16.78	14.28	28.96		37.04
				6 sets		

Notes

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

ISO/IEC 24735 Copy Productivity Report

Feature Copy Performance Report

HP LaserJet Enterprise Flow MFP M528ZF

Machine Setup Information		
	Test Start Date and Time	2/27/2020 12:25
	Tester	NP
	Machine name/model	HP LaserJet Enterprise Flow MFP M528ZF
	Colour or B&W	B&W
	FW Version	2410035 055348
	Configuration (options)	Not Specified
	Temperature and Humidity	71 degF / 21 degC 22.0 %rH
	Test End Date and Time	3/12/2020 11:50
Pre-set Item		
Pre-set Item		Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Default
	Auto Density Adjustment	Default
	Collating function	Activated (if not activated in default mode)
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Standard cassette
	Paper Exit	Standard exit tray
	Face Up Exit	Default
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	Default
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

ISO Copy ADF Productivity Report: Feature Performance Test Summary

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	105%	115%
Letter, HP High Speed, Simplex, B/W	Simplex	112%	116%

Notes

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Feature Performance Full Report - Feature ADF Copying Mode Performance Test

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	12.03	43.37	11.56	50.2	105%	115%
Letter, HP High Speed, Simplex, B/W	11.84	45.88	10.61	53.3	112%	116%

Notes

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