

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Pro M148fdw

Printing device and settings		
Test Start Date and Time	8/30/2018 10:18	
Tester	Wing	
Machine name/model	HP LaserJet Pro M148fdw	
Colour or B&W	B&W	
FW Version	20180726	
Temperature and Humidity	74 degF / 24 degC, 14.9 %rH	
Voltage	220V	
Test End Date and Time	1/21/2019 14:54	

	Item	Value
Mode and Setting	Driver Version	44.3.2667
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	default
	Duplex B&W Settings	default
	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)
	Duplexing Unit (Yes/No)	Yes
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

Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	12.83	30.22
	Duplex	18.57	18.79

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	12.52	19.18 (1 set)	27.09 (5 sets)	28.11 (32 sets)	30.23
	Simplex - Word	13.20	18.19 (1 set)	26.74 (5 sets)		30.24
	Simplex - Excel	12.77	18.80 (1 set)	26.94 (5 sets)		30.19
	Simplex - Average	12.83	18.72	26.92	28.1	30.22
	Duplex - Adobe Reader	17.92	13.38 (1 set)	16.98 (4 sets)		18.72
	Duplex - Word	19.00	12.62 (1 set)	16.82 (4 sets)		18.84
	Duplex - Excel	18.79	12.76 (1 set)	16.78 (4 sets)		18.82
	Duplex - Average	18.57	12.92	16.86		18.79

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
TCP/IP	TCP/IP 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

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Pro M148fdw

Printing device and settings		
Test Start Date and Time	8/30/2018 10:18	
Tester	Wing	
Machine name/model	HP LaserJet Pro M148fdw	
Colour or B&W	B&W	
FW Version	20180726	
Temperature and Humidity	74 degF / 24 degC, 14.9 %rH	
Voltage	220V	
Test End Date and Time	1/21/2019 14:54	

Item	Value
Mode and Setting	Driver Version 44.3.2667
	Media/Quality Setting Default / Default
	Simplex B&W Settings default
	Duplex B&W Settings default
	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	13.29	28.68
	Duplex	19.02	18.16

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)
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	12.88	18.63 (1 set)	25.86 (5 sets)	28.18 (31 sets)
	Simplex - Word	13.77	17.42 (1 set)	25.39 (5 sets)	28.67
	Simplex - Excel	13.22	18.16 (1 set)	25.73 (5 sets)	28.70
	Simplex - Average	13.3	18.07 (1 set)	25.66 (5 sets)	28.68
	Duplex - Adobe Reader	18.34	13.08 (1 set)	16.56 (4 sets)	18.18
	Duplex - Word	19.48	12.30 (1 set)	16.22 (4 sets)	18.14
	Duplex - Excel	19.23	12.46 (1 set)	16.30 (4 sets)	18.18
	Duplex - Average	19.0	12.61 (1 set)	16.36 (4 sets)	18.16

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/CD RW GUD1N
IO Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 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

ISO/IEC 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test

HP LaserJet Pro M148fdw		
Printing device and settings		
Test Start Date and Time	8/30/2018 10:18	
Tester	Wina	
Machine name/model	HP LaserJet Pro M148fdw	
Colour or B&W	B&W	
FW Version	20180726	
Temperature and Humidity	74 degF / 24 degC, 14.9 %rH	
Voltage	220V	
Test End Date and Time	1/21/2019 14:54	

Mode and Setting	Item	Value
	Driver Version	44.3.2687
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	default
	Duplex B&W Settings	default
	Setting N set count	Application
	Collating function	Activated (application)
Paper Path	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

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, General Office, Simplex, Colour	Simplex		
Letter, General Office, Simplex, Colour	Simplex		
A5, Landscape Feed, Simplex, B/W	Simplex	149%	172%
A5, Portrait Feed, Simplex, B/W	Simplex	28%	21%
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, 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, General Office, Simplex, Colour						
Letter, General Office, Simplex, Colour						
A5, Landscape Feed, Simplex, B/W	21.38	28.7	14.36	49.6	149%	172%
A5, Portrait Feed, Simplex, B/W	21.38	28.7	78.97	6.1	28%	21%
Legal, Simplex, B/W	20.53	30.2				
Legal, Duplex, B/W	20.53	30.2				
A4, 1200 dpi, Simplex, B/W	21.38	28.7				
Letter, 1200 dpi, Simplex, B/W	20.53	30.2				
A4, General Office, Simplex, B/W	21.38	28.7				
Letter, General Office, Simplex, B/W	20.53	30.2				

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	
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	TCP/IP 10/1000
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Office Word 2016
		Acrobat Reader DC
	Print Driver	Microsoft Office Excel 2016
	Test files and location	Not Specified
		Office category files, hard drive

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

Full Detailed Test Report - LETTER

HP LaserJet Pro M148fdw

Printing device and settings	
Test Start Date and Time	8/30/2018 10:18
Tester	Wing
Machine name/model	HP LaserJet Pro M148fdw
Colour or B&W	B&W
FW Version	20180726
Configuration (options)	Default
Controller	12500
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 24 degC 14.9 %rH
Voltage	220V
Test End Date and Time	1/21/2019 14:54

Item	Value
PDL and driver version	44.3.2667
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
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
	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	7.07	6.56	6.31	6.65	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			6.95		61 Minutes
	Recovery Time			0.6		
	FPOT from Off - Simplex			59.38		
	Warm-up Time			53.07		
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 Sleep	6.95	6.92	6.97	N/A	Adobe Reader	61 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	7.45	7.47	7.43	N/A	Adobe Reader	16 Minutes

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) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters	
Item	Value
Test System	Computer
	Processor
	System Chip Set
	System Board
	System Memory
	Hard Drive Subsystem
	Video Subsystem
	Optical Drive
	I/O Subsystem
Printing Device Connection	USB Subsystem
	TCP/IP
Software	Operating System
	Printing Applications

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

Full Detailed Test Report - A4

HP LaserJet Pro M148fdw	
Printing device and settings	
Test Start Date and Time	8/30/2018 10:18
Tester	Wing
Machine name/model	HP LaserJet Pro M148fdw
Colour or B&W	B&W
FW Version	20180726
Configuration (options)	Default
Controller	12500
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 24 degC 14.9 %rH
Voltage	220V
Test End Date and Time	1/21/2019 14:54

Item		Value
Mode and Setting	PDL and driver version	44.3.2667
	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	6.75
	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	7.28	6.64	6.32	6.75	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			7.52		61 Minutes
	Recovery Time			1.2		
	FPOT from Off - Simplex			66.42		
	Warm-up Time			60.10		

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 Sleep	7.52	7.51	7.52	N/A	Adobe Reader	61 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	7.58	7.58	7.58	N/A	Adobe Reader	16 Minutes

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) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters	
Item	Value
Test System	Computer
	Processor
	System Chip Set
	System Board
	System Memory
	Hard Drive Subsystem
	Video Subsystem
	Optical Drive
	I/O Subsystem
	USB Subsystem
Printing Device Connection	TCP/IP
	10/100
Software	Operating System
	Microsoft Word 2016
	Microsoft Excel 2016
	Adobe Reader DC

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP LaserJet Pro M148fdw

Machine Setup Information

	Test Start Date and Time	8/30/2018 14:52
	Tester	Wing
	Machine name/model	HP LaserJet Pro M148fdw
	Colour or B&W	B&W
	FW Version	20180726
	Configuration (options)	Not Specified
	Temperature and Humidity	74 degF / 24 degC 14.9 %rH
	Test End Date and Time:	1/21/2019 13:22

	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	6.18	30.13

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	6.18	9.70	26.68 17 sets	29.55 99 sets	30.13
	B					
	C					
	D					
	Average	6.18	9.70	26.68	29.55	30.13

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

Summary Report: A4		
	sFCOT	sESAT (ipm)
B&W	6.30	28.63
<p>Notes</p> <p>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.</p> <p>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</p>		

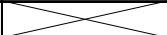

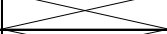

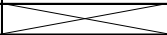
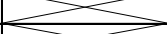
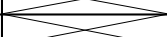

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	6.30	9.52	25.55	28.10	28.63
				17 sets	99 sets	
	B					
	C					
	D					
	Average	6.30	9.52	25.55	28.10	28.63

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 - 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	22.08	10.86	22.33	27.16	30.17
				5 sets	32 sets	
	1:2	26.94	8.90	14.78		18.78
				4 sets		
	2:2					
						

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	22.69	10.57	21.34	27.14	28.66
				5 sets	30 sets	
	1:2	27.30	8.78	14.40		18.14
				4 sets		
	2:2					

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	11/6/2018 13:56
	Tester	Wing
	Machine name/model	HP LaserJet Pro M148fdw
	Colour or B&W	B&W
	Configuration (options)	Default
	Temperature and Humidity	75 degF / 24 degC 25.0 %rH
	Voltage	220V
	Test End Date and Time	11/6/2018 15:18

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)
	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 1.7	200	single sided	9.01
			double sided	0.00
B&W	PDF 1.7	200	single sided	15.74
			double sided	0.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the BW 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 1.7	200	single sided	0.20	3.34	3.00
			double sided	0.00		
B&W	PDF 1.7	200	single sided	0.20	3.22	3.00
			double sided	0.00		

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the BW 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 1.7	200	single sided	7.61	8.47	9.01
			double sided	0.00	0	0
B&W	PDF 1.7	200	single sided	12.05	14.35	15.74
			double sided	0.00	0	0

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the BW 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 1.7	200	single sided	0.06	0.20	3.34	3
			double sided	0.00	0.00		
B&W	PDF 1.7	200	single sided	0.06	0.20	3.22	3
			double sided	0.00	0.00		

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the BW 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	11/6/2018 13:56
	Tester	Wing
	Machine name/model	HP LaserJet Pro M148fdw
	Colour or B&W	B&W
	Configuration (options)	Default
	Temperature and Humidity	75 degF / 24 degC 25.0 %rH
	Voltage	220V
	Test End Date and Time	11/6/2018 15:18

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)
	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 1.7	200	single sided	8.50
			double sided	0.00
B&W	PDF 1.7	200	single sided	15.27
			double sided	0.00

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 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 1.7	200	single sided	0.20	3.43	3.00
			double sided	0.00		
B&W	PDF 1.7	200	single sided	0.19	3.34	3.00
			double sided	0.00		

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 1.7	200	single sided	7.35	8.07	8.5
			double sided	0.00	0	0
B&W	PDF 1.7	200	single sided	11.66	13.92	15.27
			double sided	0.00	0	0

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 1.7	200	single sided	0.06	0.20	3.43	3
			double sided	0.00	0.00		
B&W	PDF 1.7	200	single sided	0.06	0.19	3.34	3
			double sided	0.00	0.00		

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".

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	Built-in
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	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
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use