

# ISO/IEC 24734 Printing Productivity Report: Office Category

## Full Detailed Test Report - LETTER

HP Color LaserJet Pro MFP M479dw

Printing device and settings	
Test Start Date and Time	1/17/2019 11:30
Tester	RM
Machine name/model	HP Color LaserJet Pro MFP M479dw
Colour or B&W	Colour
FW Version	1902B
Temperature and Humidity	75 degF / 24 degC 24.2 %RH
Voltage	110V
Test End Date and Time	2/7/2019 9:35

Item	Value
Mode and Setting	Driver Version 48.1.4429
	Media/Quality Setting Default / Default
	Simplex B&W Settings black only
	Duplex B&W Settings black only
	Setting N set count Not Specified
Paper Path	Collating function Not Specified
	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
	Paper Weight 20lb / 75 g/m2
	Paper Size Letter / A4
Paper	Paper type/name HP Multipurpose Ultra White / HP Office

Summary Report: Letter		FSOT (seconds)	ESAT (ipm)
Office Category Test for Color Device			
Color	Simplex	17.37	28.74
	Duplex	23.51	26.06
B&W	Simplex	15.64	28.75
	Duplex	23.38	26.06
Notes			
1) All printing device and driver settings were default mode.			
2) For the B/W results, the print driver was set to "print in B/W".			
3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .			
4) Port monitor not configured to follow device if the IP address changes.			

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	16.87	14.22 (1 set)	23.79 (5 sets)	27.28 (31 sets)	28.75
	Simplex - Word	18.10	13.26 (1 set)	23.36 (5 sets)		28.74
	Simplex - Excel	17.14	14.00 (1 set)	23.76 (5 sets)		28.74
	Simplex - Average	17.37	13.82 (1 set)	23.63 (5 sets)	27.28	28.74
	Duplex - Adobe Reader	23.16	10.34 (1 set)	19.90 (5 sets)		26.06
	Duplex - Word	23.91	10.02 (1 set)	19.66 (5 sets)		26.06
	Duplex - Excel	23.46	10.22 (1 set)	19.82 (5 sets)		26.06
	Duplex - Average	23.51	10.19 (1 set)	19.79 (5 sets)		26.06
B&W mode (optional for color device)	Simplex - Adobe Reader	15.45	15.54 (1 set)	24.74 (5 sets)	26.68 (30 sets)	28.76
	Simplex - Word	16.00	15.00 (1 set)	24.19 (5 sets)		28.75
	Simplex - Excel	15.47	15.51 (1 set)	24.52 (5 sets)		28.76
	Simplex - Average	15.64	15.35 (1 set)	24.48 (5 sets)	26.7	28.75
	Duplex - Adobe Reader	23.03	10.40 (1 set)	19.98 (5 sets)		26.06
	Duplex - Word	23.71	10.10 (1 set)	19.72 (5 sets)		26.06
	Duplex - Excel	23.39	10.24 (1 set)	19.86 (5 sets)		26.06
	Duplex - Average	23.38	10.24 (1 set)	19.85 (5 sets)		26.06
Notes						
1) All printing device and driver settings were default mode.						
2) For the B/W results, the print driver was set to "print in B/W".						
3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .						
4) Port monitor not configured to follow device if the IP address changes.						

Test System Parameters	
Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVD-RW GUD1N
I/O Subsystem	Built-in
USB Subsystem	USB 2.0/3.0
TCPIP	10/1000
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 Color LaserJet Pro MFP M479dw

Printing device and settings	
Test Start Date and Time	1/17/2019 11:30
Tester	RM
Machine name/model	HP Color LaserJet Pro MFP M479dw
Colour or B&W	Colour
FW Version	1902B
Temperature and Humidity	75 degF / 24 degC 24.2 %rH
Voltage	110V
Test End Date and Time	2/7/2019 9:35

Item	Value
Mode and Setting	Driver Version 48.1.4429
	Media/Quality Setting Default / Default
	Simplex B&W Settings black only
	Duplex B&W Settings black only
	Setting N set count Not Specified
Paper Path	Collating function Not Specified
	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
	Paper Weight 20lb / 75 g/m2
	Paper Size Letter / A4
Paper	Paper type/name HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Colour	Simplex	17.90	27.19
	Duplex	24.24	24.80
B&W	Simplex	16.33	27.19
	Duplex	24.11	24.78
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 <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .			
4) Port monitor not configured to follow device if the IP address changes.			

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	17.62	13.63	22.76	25.83	27.20
			( 1 set )	( 5 sets )	( 29 sets )	
	Simplex - Word	18.50	12.97	22.32		27.20
			( 1 set )	( 5 sets )		
	Simplex - Excel	17.58	13.64	22.69		27.18
			( 1 set )	( 5 sets )		
	Simplex - Average	17.90	13.41	22.59	25.83	27.19
	Duplex - Adobe Reader	23.85	10.04	19.04		24.80
			( 1 set )	( 5 sets )		
	Duplex - Word	24.80	9.66	18.72		24.80
			( 1 set )	( 5 sets )		
	Duplex - Excel	24.07	9.96	18.98		24.80
			( 1 set )	( 5 sets )		
	Duplex - Average	24.2	9.88	18.91		24.80
B&W mode (optional for color device)	Simplex - Adobe Reader	15.52	15.46	22.76	25.17	27.19
			( 1 set )	( 5 sets )	( 29 sets )	
	Simplex - Word	17.55	13.70	23.02		27.20
			( 1 set )	( 5 sets )		
	Simplex - Excel	15.92	15.07	23.46		27.20
			( 1 set )	( 5 sets )		
	Simplex - Average	16.3	14.74	23.08	25.2	27.19
	Duplex - Adobe Reader	23.50	10.20	19.16		24.78
			( 1 set )	( 5 sets )		
	Duplex - Word	24.73	9.70	18.86		24.80
			( 1 set )	( 5 sets )		
	Duplex - Excel	24.08	9.94	19.04		24.78
			( 1 set )	( 5 sets )		
	Duplex - Average	24.1	9.94	19.02		24.78
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 <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .						
4) Port monitor not configured to follow device if the IP address changes.						

Test System Parameters	
Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVD+RW GUD1N
I/O Subsystem	Built-in
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
	Microsoft Office Excel 2016
Print Driver	Not Specified
Test files and location	Office category files, hard drive

# ISO/IEC 24734 Printing Productivity Report: Office Category

## Feature Performance Full Report - Office Feature Performance Test

HP Color LaserJet Pro MFP M479dw

Printing device and settings	
Test Start Date and Time	1/17/2019 11:30
Tester	RM
Machine name/model	HP Color LaserJet Pro MFP M479dw
Colour or B&W	Colour
FW Version	1902B
Temperature and Humidity	75 degF / 24 degC 24.2 %rH
Voltage	110V
Test End Date and Time	2/7/2019 9:35

Item	Value
Mode and Setting	Driver Version 48.1.4429
	Media/Quality Setting Default / Default
	Simplex B&W Settings black only
	Duplex B&W Settings black only
	Setting N set count Not Specified
Paper Path	Collating function Not Specified
	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
	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	140%	183%
A5, Portrait Feed, Simplex, Colour	Simplex	87%	50%
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	590%	183%
A5, Portrait Feed, Simplex, B/W	Simplex	303%	33%
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	26.37	27.2	18.96	49.9	140%	183%
A5, Portrait Feed, Simplex, Colour	26.37	27.2	30.37	13.7	87%	50%
Legal, Simplex, Colour	25.42	28.75				
Legal, Duplex, Colour	25.42	28.75				
A4, 1200 dpi, Simplex, Colour	26.37	27.2				
Letter, 1200 dpi, Simplex, Colour	25.42	28.75				
A4, General Office, Simplex, Colour	26.37	27.2				
Letter, General Office, Simplex, Colour	25.42	28.75				
A5, Landscape Feed, Simplex, B/W	102.14	27.18	17.32	50.0	590%	183%
A5, Portrait Feed, Simplex, B/W	102.14	27.18	33.76	9.2	303%	33%
Legal, Simplex, B/W	23.57	28.73				
Legal, Duplex, B/W	23.57	28.73				
A4, 1200 dpi, Simplex, B/W	102.14	27.18				
Letter, 1200 dpi, Simplex, B/W	23.57	28.73				
A4, General Office, Simplex, B/W	102.14	27.18				
Letter, General Office, Simplex, B/W	23.57	28.73				

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 DVDWR GUD1N
	I/O Subsystem Built-in
	USB Subsystem USB 2.0/3.0
I/O	TCP/IP 10/1000
Software	Operating System Win 10 Enterprise 64 Bit (10240)
	Printing Applications Microsoft Office Word 2016
	Acrobat Reader DC
	Microsoft Office Excel 2016
	Print Driver Not Specified
	Test files and location Office category files, hard drive

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

Full Detailed Test Report - LETTER

HP Color LaserJet Pro MFP M479dw

Printing device and settings		
Test Start Date and Time	1/17/2019 12:33	
Tester	RM	
Machine name/model	HP Color LaserJet Pro MFP M479dw	
Colour or B&W	Colour	
FW Version	1902B	
Configuration (options)	Default	
Controller	11501	
Printing device page count	Not Specified	
Printing supplies page count	Not Specified	
Temperature and Humidity	75 degF / 24 degC 24.2 %rH	
Voltage	110V	
Test End Date and Time	1/23/2019 17:12	

Item		Value
Mode and Setting	PDL and driver version	48.1.4429
	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)		
Color	Simplex	10.53
	Duplex	
B&W	Simplex	8.95
	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 <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .		
4) Port monitor not configured to follow device if the IP address changes.		
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	11.01	10.25	10.33	10.53	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.01		61 Minutes
	Recovery Time			1.7		
	FPOT from Off - Simplex			41.60		
	Warm-up Time			31.27		
B&W Mode	FPOT from Ready - Simplex	9.48	8.81	8.55	8.95	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			11.40		61 Minutes
	Recovery Time			2.8		
	FPOT from Off - Simplex			41.36		
	Warm-up Time			32.81		
Notes						
1) All printing device and driver settings were default mode.						
2) For the B/W results, the print driver was set to "print in B/W".						
3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .						
4) Port monitor not configured to follow device if the IP address changes.						
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	12.01	12.00	12.02	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes)	11.32	10.82	11.82	N/A	Adobe Reader	16 Minutes
	HP/Non ISO Test						
B&W Mode	FPOT from Sleep	11.40	11.76	11.03	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes)	10.70	10.70	10.70	N/A	Adobe Reader	16 Minutes
	HP/Non ISO Test						
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
	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
Printing Device Connection	Hard Drive Subsystem
	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem
	Microsoft Basic Display Adaptor
Software	Optical Drive
	HP HLDS DVDRW GUD1N
	I/O Subsystem
	Built-in
Printing Device Connection	TCP/IP
	10/1000
Software	Operating System
	Win 10 Enterprise 64 Bit (10240)
	Microsoft Word 2016
Printing Applications	Microsoft Excel 2016
	Adobe Reader DC

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

Full Detailed Test Report - A4

HP Color LaserJet Pro MFP M479dw

Printing device and settings		
Test Start Date and Time	1/17/2019 12:33	
Tester	RM	
Machine name/model	HP Color LaserJet Pro MFP M479dw	
Colour or B&W	Colour	
FW Version	1902B	
Configuration (options)	Default	
Controller	11501	
Printing device page count	Not Specified	
Printing supplies page count	Not Specified	
Temperature and Humidity	75 degF / 24 degC, 24.2 %rH	
Voltage	110V	
Test End Date and Time	1/23/2019 17:12	

Item		Value
Mode and Setting	PDL and driver version	48.1.4429
	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)		
Colour	Simplex	10.79
	Duplex	
B&W	Simplex	9.09
	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	11.58	10.35	10.43	10.79	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.10		61 Minutes
	Recovery Time			1.7		
	FPOT from Off - Simplex			41.29		
	Warm-up Time			30.86		
B&W Mode	FPOT from Ready - Simplex	9.76	8.86	8.63	9.09	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			11.85		61 Minutes
	Recovery Time			3.2		
	FPOT from Off - Simplex			41.31		
	Warm-up Time			32.68		

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	12.10	12.10	12.10	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	11.61	11.28	11.93	N/A	Adobe Reader	16 Minutes
	FPOT from Sleep	11.85	11.86	11.84	N/A	Adobe Reader	61 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.80	10.80	10.80	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	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	Builton
Printing Device Connection	TCP/IP	10/1000
	Operating System	Win 10 Enterprise 64 Bit (10240)
Software	Printing Applications	Microsoft Word 2016
		Microsoft Excel 2016
		Adobe Reader DC

# ISO/IEC 29183 Copy Productivity Report

## Full Detailed Test Report - LETTER

HP Color LaserJet Pro MFP M479dw

### Machine Setup Information

	Test Start Date and Time	1/24/2019 11:21
	Tester	RM
	Machine name/model	HP Color LaserJet Pro MFP M479dw
	Colour or B&W	Colour
	FW Version	1902B
	Configuration (options)	Not Specified
	Temperature and Humidity	75 degF / 24 degC 24.2 %rH
	Test End Date and Time:	2/7/2019 13:41

	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: Letter

	sFCOT	sESAT (ipm)
<b>Color</b>	10.58	28.75
<b>B&amp;W</b>	8.52	28.75

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>Color</b>	A	10.58	5.67	22.94	26.94	28.75
				16 sets	116 sets	
	B					
	C					
	D					
	Average	10.58	5.67	22.94	26.94	28.75
<b>B&amp;W</b>	A	8.52	7.03	24.08	26.84	28.75
				16 sets	116 sets	
	B					
	C					
	D					
	Average	8.52	7.03	24.08	26.84	28.75

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

### Full Detailed Test Report - A4

HP Color LaserJet Pro MFP M479dw

#### Machine Setup Information

	Test Start Date and Time	1/24/2019 11:21
	Tester	RM
	Machine name/model	HP Color LaserJet Pro MFP M479dw
	Colour or B&W	Colour
	FW Version	1902B
	Configuration (options)	Not Specified
	Temperature and Humidity	75 degF / 24 degC 24.2 %rH
	Test End Date and Time:	2/7/2019 13:41

	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>	8.82	27.19
<b>B&amp;W</b>	8.82	27.19

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>Colour</b>	A	8.82	6.80	21.61 15 sets	25.32 111 sets	27.19
	B					
	C					
	D					
	Average	8.82	6.80	21.61	25.32	27.19
<b>B&amp;W</b>	A	8.82	6.80	22.67 15 sets	25.39 111 sets	27.19
	B					
	C					
	D					
	Average	8.82	6.80	22.67	25.39	27.19

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

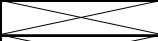
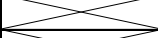
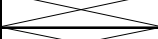
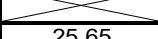
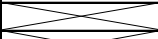

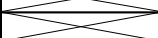

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: LETTER						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Color Mode	1:1	20.83	11.52	22.10	26.88	28.75
			( 1 set )	5 sets	30 sets	
	1:2	31.28	7.66	17.26		26.06
			( 1 set )	5 sets		
	2:2					
			( 1 set )			
B&W mode	1:1	18.00	13.33	23.46	27.09	28.75
				5 sets	30 sets	
	1:2	29.67	8.06	17.76		26.08
				5 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	21.75	11.03	21.06	25.23	27.20
			( 1 set )	5 sets	29 sets	
	1:2	32.08	7.46	16.62		24.78
			( 1 set )	5 sets		
	2:2					
			( 1 set )			
B&W mode	1:1	18.69	12.84	22.34	25.65	27.20
				5 sets	29 sets	
	1:2	30.28	7.90	17.02		24.78
				5 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	1/29/2019 11:03	
Tester	RM	
Machine name/model	HP Color LaserJet Pro MFP M479dw	
Colour or B&W	Colour	
Configuration (options)	Default	
Temperature and Humidity	75 degF / 24 degC 24.2 %rH	
Voltage	110V	
Test End Date and Time	1/29/2019 11:58	

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

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

### Summary Report: Letter

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	21.58
			double sided	0.00
B&W	PDF 1.4	200	single sided	31.15
			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: 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	19.35	6.42	4.00
			double sided	0.00		
B&W	PDF 1.4	200	single sided	27.53	0.60	5.00
			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: 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	15.98	19.91	21.58
			double sided	0.00	0	0
B&W	PDF 1.4	200	single sided	23.06	28.44	31.15
			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: 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	14.61	19.35	6.42	4
			double sided	0.00	0.00		
B&W	PDF 1.4	200	single sided	20.33	27.53	0.60	5
			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	Builtin
	USB Subsystem	USB 2.0/3.0
Scanning Device Connection	Operating System	Win 10 Enterprise 64 Bit (10240)
	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	1/29/2019 11:03
	Tester	RM
	Machine name/model	HP Color LaserJet Pro MFP M479dw
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	75 degF / 24 degC 24.2 %rH
	Voltage	110V
	Test End Date and Time	1/29/2019 11:58

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	20.32
			double sided	0.00
B&W	PDF 1.4	200	single sided	29.45
			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 1.4	200	single sided	18.53	6.31	4.00
			double sided	0.00		
B&W	PDF 1.4	200	single sided	26.27	0.61	5.00
			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 1.4	200	single sided	15.42	19.05	20.32
			double sided	0.00	0	0
B&W	PDF 1.4	200	single sided	20.28	27.11	29.45
			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 1.4	200	single sided	14.16	18.53	6.31	4
			double sided	0.00	0.00		
B&W	PDF 1.4	200	single sided	18.14	26.27	0.61	5
			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 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