

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER
HP Color LaserJet M255dw

Printing device and settings	
Test Start Date and Time	8/29/2019 10:25
Tester	Tom
Machine name/model	HP Color LaserJet M255dw
Colour or B&W	Colour
FW Version	20190819
Temperature and Humidity	73 degF / 23 degC 72.0 %RH
Voltage	220V
Test End Date and Time	9/6/2019 15:56

Item	Value	
Mode and Setting	Driver Version	44.5.2703
	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: Letter			
Office Category	Test for Color Device	FSOT (seconds)	ESAT (ipm)
Color	Simplex	20.25	22.40
	Duplex	29.45	13.26
B&W	Simplex	18.59	22.39
	Duplex	28.90	13.26

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 + 30sec (# of sets)	1 set + 4min (# of sets)	
Color Mode	Simplex - Adobe Reader	19.95	12.03 (1 set)	18.35 (4 sets)	21.58 (24 sets)	22.39
		20.69	11.59 (1 set)	18.16 (4 sets)		22.39
	Simplex - Word	20.09	11.94 (1 set)	18.38 (4 sets)		22.42
		20.25	11.85 (1 set)	18.29 (4 sets)	21.58	22.40
	Duplex - Adobe Reader	29.34	8.16 (1 set)	10.98 (3 sets)		13.28
		29.65	8.08 (1 set)	10.92 (3 sets)		13.28
	Duplex - Word	29.36	8.16 (1 set)	10.98 (3 sets)		13.24
		29.45	8.13 (1 set)	10.96 (3 sets)		13.26
B&W mode (optional for color device)	Simplex - Adobe Reader	18.25	13.15 (1 set)	19.00 (4 sets)	21.56 (24 sets)	22.38
		19.25	12.47 (1 set)	18.15 (4 sets)		22.41
	Simplex - Word	18.26	13.14 (1 set)	18.94 (4 sets)		22.39
		18.59	12.92 (1 set)	18.69 (4 sets)	21.6	22.39
	Duplex - Adobe Reader	28.54	8.40 (1 set)	11.10 (3 sets)		13.26
		29.25	8.18 (1 set)	11.00 (3 sets)		13.26
	Duplex - Word	28.89	8.30 (1 set)	11.06 (3 sets)		13.26
		28.90	8.29 (1 set)	11.05 (3 sets)		13.26

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
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
	TCPIIP 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

Full Detailed Test Report - A4
HP Color LaserJet M255dw

Printing device and settings	
Test Start Date and Time	8/29/2019 10:25
Tester	Tom
Machine name/model	HP Color LaserJet M255dw
Colour or B&W	Colour
FW Version	20190819
Temperature and Humidity	73 degF / 23 degC 72.0 %rH
Voltage	220V
Test End Date and Time	9/6/2019 15:56

Item	Value	
Mode and Setting	Driver Version	44.5.2703
	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)
Paper	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Colour	Simplex	20.98	21.20
	Duplex	30.12	12.84
B&W	Simplex	21.07	21.22
	Duplex	30.21	12.84

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A4						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)		
Colour Mode	Simplex - Adobe Reader	20.55	11.68 (1 set)	17.57 (4 sets)	20.46 (23 sets)	21.20
	Simplex - Word	21.64	11.09 (1 set)	17.22 (4 sets)		21.21
	Simplex - Excel	20.75	11.57 (1 set)	17.51 (4 sets)		21.20
	Simplex - Average	20.98	11.44	17.43	20.46	21.20
	Duplex - Adobe Reader	29.85	8.04 (1 set)	10.68 (3 sets)		12.84
	Duplex - Word	30.60	7.84 (1 set)	10.58 (3 sets)		12.84
	Duplex - Excel	29.91	8.02 (1 set)	10.68 (3 sets)		12.84
	Duplex - Average	30.1	7.96 (1 set)	10.64 (3 sets)		12.84
B&W mode (optional for color device)	Simplex - Adobe Reader	20.60	11.64 (1 set)	17.55 (4 sets)	20.43 (23 sets)	21.21
	Simplex - Word	21.80	11.00 (1 set)	17.21 (4 sets)		21.21
	Simplex - Excel	20.79	11.54 (1 set)	17.71 (4 sets)		21.25
	Simplex - Average	21.1	11.39 (1 set)	17.49 (4 sets)	20.4	21.22
	Duplex - Adobe Reader	29.90	8.02 (1 set)	10.70 (3 sets)		12.84
	Duplex - Word	30.71	7.80 (1 set)	10.58 (3 sets)		12.84
	Duplex - Excel	30.00	8.00 (1 set)	10.70 (3 sets)		12.86
	Duplex - Average	30.2	7.94 (1 set)	10.66 (3 sets)		12.84

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 DVDWRV GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCPIP	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

Feature Performance Full Report - Office Feature Performance Test
HP Color LaserJet M255dw

Printing device and settings	
Test Start Date and Time	8/29/2019 10:25
Tester	Tom
Machine name/model	HP Color LaserJet M255dw
Colour or B&W	Colour
FW Version	20190819
Temperature and Humidity	73 degF / 23 degC 72.0 %rH
Voltage	220V
Test End Date and Time	9/6/2019 15:56

Item	Value	
Mode and Setting	Driver Version	44.5.2703
	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

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	94%	86%
A5, Portrait Feed, Simplex, Colour	Simplex	59%	26%
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	141%	181%
A5, Portrait Feed, Simplex, B/W	Simplex	57%	26%
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://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	32.16	21.2	34.56	18.3	94%	86%
A5, Portrait Feed, Simplex, Colour	32.16	21.2	55.34	5.7	59%	26%
Legal, Simplex, Colour	30.94	22.38				
Legal, Duplex, Colour	30.94	22.38				
A4, 1200 dpi, Simplex, Colour	32.16	21.2				
Letter, 1200 dpi, Simplex, Colour	30.94	22.38				
A4, General Office, Simplex, Colour	32.16	21.2				
Letter, General Office, Simplex, Colour	30.94	22.38				
A5, Landscape Feed, Simplex, B/W	30.14	21.21	21.39	38.4	141%	181%
A5, Portrait Feed, Simplex, B/W	30.14	21.21	53.53	5.6	57%	26%
Legal, Simplex, B/W	30.9	22.39				
Legal, Duplex, B/W	30.9	22.39				
A4, 1200 dpi, Simplex, B/W	30.14	21.21				
Letter, 1200 dpi, Simplex, B/W	30.9	22.39				
A4, General Office, Simplex, B/W	30.14	21.21				
Letter, General Office, Simplex, B/W	30.9	22.39				

- 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 DVDRW GUD1N
	IO Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
I/O	TCP/IP	TCP/IP 10/1000
	Operating System	Win 10 Enterprise 64 Bit (10240)
Software	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 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet M255dw

Printing device and settings	
Test Start Date and Time	8/28/2019 10:59
Tester	Tom
Machine name/model	HP Color LaserJet M255dw
Colour or B&W	Colour
FW Version	20190819
Configuration (options)	Default
Controller	10100
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	73 degF / 23 degC 72.0 %rH
Voltage	220V
Test End Date and Time	8/28/2019 16:11

Item	Value
Mode and Setting	
PDL and driver version	44.5.2703
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	11.99
	Duplex	
B&W	Simplex	10.14
	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	12.41	11.80	11.75	11.99	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.16		61 Minutes
	Recovery Time			0.4		
	FPOT from Off - Simplex			57.79		
	Warm-up Time			46.04		
B&W Mode	FPOT from Ready - Simplex	10.45	10.39	9.57	10.14	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			11.91		61 Minutes
	Recovery Time			2.3		
	FPOT from Off - Simplex			60.62		
	Warm-up Time			51.05		

- 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	12.16	12.12	12.19	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	12.30	12.38	12.22	N/A	Adobe Reader	16 Minutes
B&W Mode	FPOT from Sleep	11.91	11.90	11.91	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	11.93	11.93	11.93	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 Memory	system devices, default system BIOS
	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
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Word 2016
		Microsoft Excel 2016
	Adobe Reader DC	

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

Full Detailed Test Report - A4

HP Color LaserJet M255dw

Printing device and settings	
Test Start Date and Time	8/28/2019 10:59
Tester	Tom
Machine name/model	HP Color LaserJet M255dw
Colour or B&W	Colour
FW Version	20190819
Configuration (options)	Default
Controller	10100
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	73 degF / 23 degC 72.0 %rH
Voltage	220V
Test End Date and Time	8/28/2019 16:11

Item	Value
Mode and Setting	
PDL and driver version	44.5.2703
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	12.18
	Duplex	
B&W	Simplex	10.41
	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	12.84	11.89	11.80	12.18	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.40		61 Minutes
	Recovery Time			0.6		
	FPOT from Off - Simplex			60.02		
	Warm-up Time			48.22		
B&W Mode	FPOT from Ready - Simplex	11.31	10.25	9.66	10.41	48 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.09		61 Minutes
	Recovery Time			2.4		
	FPOT from Off - Simplex			56.24		
	Warm-up Time			46.58		

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	12.40	12.39	12.40	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes)	12.34	12.38	12.29	N/A	Adobe Reader	16 Minutes
	HP/Non ISO Test						
B&W Mode	FPOT from Sleep	12.09	12.06	12.12	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes)	12.07	12.08	12.05	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
	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 Word 2016
		Microsoft Excel 2016
		Adobe Reader DC