

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Enterprise Flow MFP M635z

Printing device and settings		
Test Start Date and Time	3/18/2020 17:16	
Tester	RM	
Machine name/model	HP LaserJet Enterprise Flow MFP M635z	
Colour or B&W	B&W	
FW Version	2410035_055385	
Temperature and Humidity	74 degF / 23 degC, 25.0 %rH	
Voltage	110V	
Test End Date and Time	4/7/2020 17:26	

Item	Value
Mode and Setting	Driver Version 7.0.0.24686
	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 gsm2
	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	8.07	65.62
	Duplex	9.97	58.27

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)	
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	7.61	31.53 (1 set)	58.54 (10 sets)	63.64 (67 sets)	65.57
	Simplex - Word	8.34	28.86 (1 set)	58.86 (10 sets)		65.65
	Simplex - Excel	8.25	29.13 (1 set)	58.02 (10 sets)		65.66
	Simplex - Average	8.07	29.84	58.47	63.6	65.62
	Duplex - Adobe Reader	10.13	23.70 (1 set)	49.46 (9 sets)		58.24
	Duplex - Word	9.88	24.28 (1 set)	49.70 (9 sets)		58.34
	Duplex - Excel	9.89	24.26 (1 set)	49.72 (9 sets)		58.24
	Duplex - Average	9.97	24.08	49.62		58.27

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 DVDRW GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	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 LaserJet Enterprise Flow MFP M635z

Printing device and settings

Test Start Date and Time	3/18/2020 17:16
Tester	RM
Machine name/model	HP LaserJet Enterprise Flow MFP M635z
Colour or B&W	B&W
FW Version	2410035_055385
Temperature and Humidity	74 degF / 23 degC, 25.0 %rH
Voltage	110V
Test End Date and Time	4/7/2020 17:26

Item	Value
Mode and Setting	Driver Version 7.0.0.24686
	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 gsm2
	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	8.27	61.13
	Duplex	10.10	55.40

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the BW results, the print driver was set to "print in BW".
- 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	7.96	30.17 (1 set)	54.87 (9 sets)	57.78 (64 sets)	61.24
	Simplex - Word	8.14	29.50 (1 set)	54.00 (9 sets)		61.10
	Simplex - Excel	8.69	27.64 (1 set)	54.45 (9 sets)		61.05
	Simplex - Average	8.3	29.10 (1 set)	54.44 (9 sets)	57.8	61.13
	Duplex - Adobe Reader	9.86	24.34 (1 set)	46.84 (8 sets)		55.42
	Duplex - Word	10.29	23.32 (1 set)	46.56 (8 sets)		55.56
	Duplex - Excel	10.13	23.68 (1 set)	46.48 (8 sets)		55.22
	Duplex - Average	10.1	23.78	46.62		55.40

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the BW results, the print driver was set to "print in BW".
- 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 DVDRW GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	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 LaserJet Enterprise Flow MFP M635z

Printing device and settings	
Test Start Date and Time	3/18/2020 17:16
Tester	RM
Machine name/model	HP LaserJet Enterprise Flow MFP M635z
Colour or B&W	B&W
FW Version	2410035_055385
Temperature and Humidity	74 degF / 23 degC, 25.0 %rH
Voltage	110V
Test End Date and Time	4/7/2020 17:26
Item	
Mode and Setting	Driver Version 7.0.0.24686
	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 gsm2
	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	130%	164%
A5, Portrait Feed, Simplex, B/W	Simplex	63%	34%
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, 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	11.85	61.27	9.16	101.0	130%	164%
A5, Portrait Feed, Simplex, B/W	11.85	61.27	18.93	21.2	63%	34%
Legal, Simplex, B/W						
Legal, Duplex, B/W						
A4, 1200 dpi, Simplex, B/W	11.85	61.27				
Letter, 1200 dpi, Simplex, B/W						
A4, General Office, Simplex, B/W	11.85	61.27				
Letter, General Office, Simplex, B/W						
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		
Test System	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
I/O	USB Subsystem	USB 2.0/3.0
	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 Enterprise Flow MFP M635z

Printing device and settings	
Test Start Date and Time	3/18/2020 16:38
Tester	RM
Machine name/model	HP LaserJet Enterprise Flow MFP M635z
Colour or B&W	B&W
FW Version	2410035_055385
Configuration (options)	Default
Controller	5.103
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 25.0 %rH
Voltage	110V
Test End Date and Time	3/19/2020 14:55

Mode and Setting	Item	Value
Mode and Setting	PDL and driver version	7.0.0.24686
	Print Quality mode	default
	B&W settings	default
	Paper feed orientation	Short Edge
Paper	Paper type setting	default
	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
Paper Path	Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: Letter		
		FPOT from Ready (seconds)
B&W	Simplex	4.93
	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	5.06	5.03	4.68	4.93	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.44		95 Minutes
	Recovery Time			8.8		
	FPOT from Off - Simplex			201.78		
	Warm-up Time			197.10		

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: LETTER						
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader
B&W Mode	FPOT from Sleep	13.44	13.47	13.40	N/A	Adobe Reader
	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.40	10.42	10.37	N/A	Adobe Reader

Test System Parameters		
	Item	Value
Test System	Computer	HP Z240 SFF Workstation
	Processor	Intel Core i7-6770, 3.4 GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	8 GB
	Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVD RW GUD1N
	I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0	
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Office 2016
		Adobe Reader DC
	Print Driver	7.0.0.24686

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

Full Detailed Test Report - A4

HP LaserJet Enterprise Flow MFP M635z

Printing device and settings	
Test Start Date and Time	3/18/2020 16:38
Tester	RM
Machine name/model	HP LaserJet Enterprise Flow MFP M635z
Colour or B&W	B&W
FW Version	2410035_055385
Configuration (options)	Default
Controller	5.103
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 25.0 %rH
Voltage	110V
Test End Date and Time	3/19/2020 14:55

Item	Value
Mode and Setting	PDL and driver version
	7.0.0.24686
	Print Quality mode
	default
Paper	B&W settings
	default
	Paper feed orientation
	Short Edge
Paper Path	Paper type setting
	default
	Paper feeding
Paper Path	Standard cassette
	Paper exit
Paper Path	Standard exit tray
	Output orientation
	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: A4

B&W		FPOT from Ready (seconds)
B&W	Simplex	5.00
	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	5.20	5.13	4.66	5.00	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.49		95 Minutes
	Recovery Time			8.8		
	FPOT from Off - Simplex			201.83		
	Warm-up Time			197.17		

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B&W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.
- 6) Details for FPOT from Sleep are shown below.

HP Data Table

Detailed Report: A4

		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
B&W Mode	FPOT from Sleep	13.49	13.48	13.50	N/A	Adobe Reader	95 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.51	10.47	10.55	N/A	Adobe Reader	15 Minutes

Test System Parameters	
Item	Value
Test System	Computer
	HP Z240 SFF Workstation
	Processor
	Intel Core i7-6770, 3.4 GHz
	System Chip Set
	Intel SKUKBL 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
	Optical Drive
Software	HP HLDS DVD RW GUD1N
	I/O Subsystem
	Built-in
Software	USB Subsystem
	USB 2.0/3.0
Printing Device Connection	TCP/IP
	10/1000
Software	Operating System
	Win 10 Enterprise 64 Bit (10240)
	Printing Applications
	Microsoft Office 2016
Software	Adobe Reader DC
	Print Driver
	7.0.0.24686

Full Detailed Test Report - LETTER

HP LaserJet Enterprise Flow MFP M635z

Summary Report: Letter		
	sFCOT	sESAT (ipm)
B&W	4.74	65.62

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	4.74	12.66	57.86	63.64	65.62
				34 sets	260 sets	
	B					
	C					
	D					
	Average	4.74	12.66	57.86	63.64	65.62

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 LaserJet Enterprise Flow MFP M635z

Machine Setup Information

	Test Start Date and Time	3/20/2020 11:47
	Tester	RM
	Machine name/model	HP LaserJet Enterprise Flow MFP M635z
	Colour or B&W	B&W
	FW Version	2410035_055385
	Configuration (options)	Not Specified
	Temperature and Humidity	74 degF / 23 degC 25.0 %rH
	Test End Date and Time:	4/8/2020 12:10

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4

	sFCOT	sESAT (ipm)
B&W	4.88	61.32

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	4.88	12.31	52.17 34 sets	58.71 242 sets	61.32
	B					
	C					
	D					
	Average	4.88	12.31	52.17	58.71	61.32

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	7.73	31.04	55.50	63.07	65.63
				10 sets	69 sets	
	1:2	10.95	21.92	48.44		58.20
				9 sets		
	2:2	13.43	17.86	45.32		58.20
				9 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	8.36	28.74	52.12	57.90	61.83
				9 sets	62 sets	
	1:2	11.04	21.74	45.28		55.52
				8 sets		
	2:2	13.93	17.22	42.08		55.58
				8 sets		

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	4/8/2020 12:29
	Tester	RM
	Machine name/model	HP LaserJet Enterprise Flow MFP M635z
	Colour or B&W	B&W
	Configuration (options)	Default
	Temperature and Humidity	74 degF / 23 degC 25.0 %rH
	Voltage	110V
	Test End Date and Time	4/8/2020 13:31

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

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

Summary Report: [Letter](#)

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	92.52
			double sided	185.38
B&W	PDF 1.4	200	single sided	92.63
			double sided	185.65

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 1.4	200	single sided	67.42	4.08	13.00
			double sided	95.70	9.73	25.00
B&W	PDF 1.4	200	single sided	72.23	2.31	13.00
			double sided	81.54	4.46	25.00

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 1.4	200	single sided	44.51	85.78	92.52
			double sided	63.25	172.26	185.38
B&W	PDF 1.4	200	single sided	49.80	86.52	92.63
			double sided	66.57	172.3	185.65

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 1.4	200	single sided	28.12	67.42	4.08	13
			double sided	29.37	95.70	9.73	25
B&W	PDF 1.4	200	single sided	30.57	72.23	2.31	13
			double sided	30.61	81.54	4.46	25

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	4/8/2020 12:29
	Tester	RM
	Machine name/model	HP LaserJet Enterprise Flow MFP M635z
	Colour or B&W	B&W
	Configuration (options)	Default
	Temperature and Humidity	74 degF / 23 degC 25.0 %rH
	Voltage	110V
	Test End Date and Time	4/8/2020 13:31

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: A4

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	87.01
			double sided	173.36
B&W	PDF 1.4	200	single sided	86.68
			double sided	173.28

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	64.63	3.68	12.00
			double sided	99.78	7.40	23.00
B&W	PDF 1.4	200	single sided	68.32	2.01	12.00
			double sided	81.01	3.99	24.00

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	46.24	80.72	87.01
			double sided	63.93	161.58	173.36
B&W	PDF 1.4	200	single sided	46.43	80.21	86.68
			double sided	64.57	162.33	173.28

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	29.52	64.63	3.68	12
			double sided	29.64	99.78	7.40	23
B&W	PDF 1.4	200	single sided	27.66	68.32	2.01	12
			double sided	28.70	81.01	3.99	24

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