

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet Managed Flow MFP E78330z

Printing device and settings	
Test Start Date and Time	3/15/2021 13:11
Tester	Jiaon
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
Colour or B&W	Colour
FW Version	2411114_061060
Temperature and Humidity	80 degF / 26 degC 12 %rH
Voltage	220V
Test End Date and Time	3/24/2021 13:03

Item	Value
Mode and Setting	Driver Version 6.8.0.24296
	Media/Quality Setting Default / Default
	Simplex B&W Settings Print in Grayscale
	Duplex B&W Settings Print in Grayscale
	Setting N set count Application
Paper Path	Collating function Activated (application)
	Paper Sending Direction Default
	Paper Size Setting Default
	Paper Feeding Tray 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 / A3
Paper	Paper type/name HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	16.22	30.14
	Duplex	25.64	21.99
B&W	Simplex	13.90	30.14
	Duplex	23.08	21.78

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

Detailed Report: LETTER						
	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Color Mode	Simplex - Adobe Reader	16.01	14.99	24.97	28.72	30.14
			(1 set)	(5 sets)	(32 sets)	
	Simplex - Word	16.29	14.72	24.92		30.15
			(1 set)	(5 sets)		
	Simplex - Excel	16.35	14.67	24.76		30.14
			(1 set)	(5 sets)		
	Simplex - Average	16.22	14.79	24.88	28.72	30.14
	Duplex - Adobe Reader	25.71	9.32	16.14		22.00
			(1 set)	(4 sets)		
B&W mode (optional for color device)	Duplex - Word	25.75	9.30	16.34		21.98
			(1 set)	(4 sets)		
	Duplex - Excel	25.44	9.42	16.24		22.00
			(1 set)	(4 sets)		
	Duplex - Average	25.64	9.34	16.24		21.99
	Simplex - Adobe Reader	13.63	17.61	26.32	29.47	30.15
			(1 set)	(5 sets)	(32 sets)	
	Simplex - Word	13.99	17.15	26.16		30.14
			(1 set)	(5 sets)		
	Simplex - Excel	14.08	17.04	26.13		30.15
			(1 set)	(5 sets)		
	Simplex - Average	13.90	17.26	26.20	29.5	30.14
	Duplex - Adobe Reader	22.55	10.62	17.02		21.78
			(1 set)	(4 sets)		
	Duplex - Word	23.78	10.08	17.02		21.78
			(1 set)	(4 sets)		
	Duplex - Excel	22.90	10.46	16.86		21.80
			(1 set)	(4 sets)		
	Duplex - Average	23.08	10.38	16.96		21.78

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

Test System Parameters	
Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 - 6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVD 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 Color LaserJet Managed Flow MFP E78330z

Printing device and settings		
Test Start Date and Time	3/15/2021 13:11	
Tester	Jiaon	
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z	
Colour or B&W	Colour	
FW Version	2411114_061060	
Temperature and Humidity	80 degF / 26 degC 12 %rH	
Voltage	220V	
Test End Date and Time	3/24/2021 13:03	

Item	Value
Mode and Setting	Driver Version 6.8.0.24296
	Media/Quality Setting Default / Default
	Simplex B&W Settings Print in Grayscale
	Duplex B&W Settings Print in Grayscale
	Setting N set count Application
Paper Path	Collating function Activated (application)
	Paper Sending Direction Default
	Paper Size Setting Default
	Paper Feeding Tray 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 / A3
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	16.70	30.14
	Duplex	25.65	22.07
B&W	Simplex	13.92	30.15
	Duplex	22.85	21.88

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	16.16	14.85 (1 set)	24.92 (5 sets)	29.19 (32 sets)	30.15
	Simplex - Word	17.62	13.63 (1 set)	24.50 (5 sets)		30.14
	Simplex - Excel	16.32	14.70 (1 set)	24.80 (5 sets)		30.15
	Simplex - Average	16.70	14.39 (1 set)	24.74 (5 sets)	29.19	30.14
	Duplex - Adobe Reader	25.69	9.34 (1 set)	16.18 (4 sets)		22.06
	Duplex - Word	25.84	9.28 (1 set)	16.30 (4 sets)		22.08
	Duplex - Excel	25.41	9.44 (1 set)	16.42 (4 sets)		22.08
	Duplex - Average	25.7	9.35 (1 set)	16.30 (4 sets)		22.07
B&W mode (optional for color device)	Simplex - Adobe Reader	13.63	17.61 (1 set)	26.36 (5 sets)	29.47 (32 sets)	30.14
	Simplex - Word	14.09	17.03 (1 set)	26.10 (5 sets)		30.16
	Simplex - Excel	14.02	17.12 (1 set)	26.08 (5 sets)		30.15
	Simplex - Average	13.9	17.25 (1 set)	26.18 (5 sets)	29.5	30.15
	Duplex - Adobe Reader	22.66	10.58 (1 set)	17.00 (4 sets)		21.88
	Duplex - Word	22.96	10.44 (1 set)	17.10 (4 sets)		21.90
	Duplex - Excel	22.92	10.46 (1 set)	17.10 (4 sets)		21.88
	Duplex - Average	22.9	10.49 (1 set)	17.06 (4 sets)		21.88

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 - Tabloid

HP Color LaserJet Managed Flow MFP E78330z

Printing device and settings		
Test Start Date and Time	3/15/2021 13:11	
Tester	Jiwon	
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z	
Colour or B&W	Colour	
FW Version	2411114_061060	
Temperature and Humidity	80 degF / 26 degC 12 %rH	
Voltage	220V	
Test End Date and Time	3/24/2021 13:03	

Item	Value
Mode and Setting	Driver Version 8.8.0.24296
	Media/Quality Setting Default / Default
	Simplex B&W Settings Print in Grayscale
	Duplex B&W Settings Print in Grayscale
	Setting N set count Application
Paper Path	Collating function Activated (application)
	Paper Sending Direction Default
	Paper Size Setting Default
	Paper Feeding Tray 3
	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 / A3
Paper	Paper type/name HP Multipurpose Ultra White / HP Office

Summary Report: Tabloid

Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	16.22	16.08
	Duplex	25.64	12.26
B&W	Simplex	22.39	16.07
	Duplex	31.31	12.58

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.

Detailed Report: Tabloid

	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	23.93	10.02	13.86	15.54	16.09
			(1 set)	(4 sets)	(18 sets)	
	Simplex - Word	24.55	9.77	13.79		16.08
			(1 set)	(4 sets)		
	Simplex - Excel	23.92	10.03	13.96		16.08
			(1 set)	(4 sets)		
	Simplex - Average	24.14	9.94	13.87	15.54	16.08
	Duplex - Adobe Reader	34.91	6.86	8.98		12.26
			(1 set)	(3 sets)		
B&W mode (optional for color device)	Duplex - Word	34.32	6.98	9.02		12.26
			(1 set)	(3 sets)		
	Duplex - Excel	33.53	7.14	9.16		12.26
			(1 set)	(3 sets)		
	Duplex - Average	34.26	6.99	9.05		12.26
	Simplex - Adobe Reader	22.21	10.80	14.22	15.64	16.08
			(1 set)	(4 sets)	(18 sets)	
	Simplex - Word	22.73	10.58	14.23		16.07
			(1 set)	(4 sets)		
	Simplex - Excel	22.21	10.80	14.28		16.08
			(1 set)	(4 sets)		
	Simplex - Average	22.39	10.72	14.24	15.64	16.07
	Duplex - Adobe Reader	31.59	7.58	9.60		12.58
			(1 set)	(3 sets)		
	Duplex - Word	31.84	7.52	9.70		12.58
			(1 set)	(3 sets)		
	Duplex - Excel	30.50	7.86	9.66		12.58
			(1 set)	(3 sets)		
	Duplex - Average	31.31	7.65	9.65		12.58

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.

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 10/1000
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 - A3**

HP Color LaserJet Managed Flow MFP E78330z

Printing device and settings		
Test Start Date and Time	3/15/2021 13:11	
Tester	Jwosi	
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z	
Colour or B&W	Colour	
FW Version	2411114_061060	
Temperature and Humidity	80 degF / 26 degC 12 %rH	
Voltage	220V	
Test End Date and Time	3/24/2021 13:03	

Item	Value
Mode and Setting	Driver Version 8.8.0.24296
	Media/Quality Setting Default / Default
	Simplex B&W Settings Print in Grayscale
	Duplex B&W Settings Print in Grayscale
	Setting N set count Application
Paper Path	Collating function Activated (application)
	Paper Sending Direction Default
	Paper Size Setting Default
	Paper Feeding Tray 3
	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/m ²
	Paper Size Letter / A4 / A3
Paper	Paper type/name HP Multipurpose Ultra White / HP Office

Summary Report: A3

Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	16.22	16.07
	Duplex	25.64	12.34
B&W	Simplex	22.20	16.08
	Duplex	31.20	12.68

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.

Detailed Report: A3

	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	24.42	9.82	13.91	15.53	16.07
			(1 set)	(4 sets)	(18 sets)	
	Simplex - Word	24.76	9.69	13.75		16.08
			(1 set)	(4 sets)		
	Simplex - Excel	23.80	10.08	13.94		16.08
			(1 set)	(4 sets)		
	Simplex - Average	24.33	9.86	13.86	15.53	16.07
	Duplex - Adobe Reader	35.74	6.70	9.08		12.34
			(1 set)	(3 sets)		
	Duplex - Word	34.14	7.02	9.12		12.34
			(1 set)	(3 sets)		
	Duplex - Excel	33.18	7.22	9.18		12.34
			(1 set)	(3 sets)		
	Duplex - Average	34.36	6.98	9.12		12.34
B&W mode (optional for color device)	Simplex - Adobe Reader	21.96	10.93	14.35	15.66	16.09
			(1 set)	(4 sets)	(18 sets)	
	Simplex - Word	22.50	10.68	14.12		16.07
			(1 set)	(4 sets)		
	Simplex - Excel	22.12	10.84	14.34		16.08
			(1 set)	(4 sets)		
	Simplex - Average	22.20	10.81	14.27	15.66	16.08
	Duplex - Adobe Reader	32.49	7.36	9.68		12.68
			(1 set)	(3 sets)		
	Duplex - Word	30.85	7.76	9.66		12.68
			(1 set)	(3 sets)		
	Duplex - Excel	30.25	7.92	9.80		12.68
			(1 set)	(3 sets)		
	Duplex - Average	31.20	7.68	9.71		12.68

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.

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 10/1000
Operating System	Win 10 Enterprise 64 Bit (10240)
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 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test

HP Color LaserJet Managed Flow MFP E78330z

Printing device and settings		
Test Start Date and Time	3/15/2021 13:11	
Tester	Jiaon	
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z	
Colour or B&W	Colour	
FW Version	2411114_061060	
Temperature and Humidity	80 degF / 26 degC 12 %rH	
Voltage	220V	
Test End Date and Time	3/24/2021 13:03	

Mode and Setting	Item	Value
	Driver Version	6.8.0.24296
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	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 / A3
	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	102%	99%
Legal, Simplex, Colour	Simplex	75%	63%
Legal, Duplex, Colour	Duplex	51%	45%
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		
A5, Portrait Feed, Simplex, B/W	Simplex	101%	100%
Legal, Simplex, B/W	Simplex	71%	63%
Legal, Duplex, B/W	Duplex	47%	46%
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	24.19	30.14				
A5, Portrait Feed, Simplex, Colour	24.19	30.14	23.8	30.1	102%	99%
Legal, Simplex, Colour	24.73	30.15	33.31	19.2	75%	63%
Legal, Duplex, Colour	24.73	30.15	49.43	13.6	51%	45%
A4, 1200 dpi, Simplex, Colour	24.19	30.14				
Letter, 1200 dpi, Simplex, Colour	24.73	30.15				
A4, General Office, Simplex, Colour	24.19	30.14				
Letter, General Office, Simplex, Colour	24.73	30.15				
A5, Landscape Feed, Simplex, B/W	21.62	30.13				
A5, Portrait Feed, Simplex, B/W	21.62	30.13	21.5	30.2	101%	100%
Legal, Simplex, B/W	21.78	30.15	30.71	19.2	71%	63%
Legal, Duplex, B/W	21.78	30.15	46.38	14.1	47%	46%
A4, 1200 dpi, Simplex, B/W	21.62	30.13				
Letter, 1200 dpi, Simplex, B/W	21.78	30.15				
A4, General Office, Simplex, B/W	21.62	30.13				
Letter, General Office, Simplex, B/W	21.78	30.15				

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		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 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 Managed Flow MFP E78330z

Printing device and settings	
Test Start Date and Time	3/19/2021 13:11
Tester	Jwon
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
Colour or B&W	Colour
FW Version	2501517_000147
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	79 degF / 26 degC 12 %rH
Voltage	220V
Test End Date and Time	3/26/2021 13:03

Mode and Setting	Item	Value
Mode and Setting	PDL and driver version	6.8.0.24296
	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	10.24
	Duplex	
B&W	Simplex	7.93
	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	10.39	10.25	10.08	10.24	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			35.17		76 Minutes
	Recovery Time			25.1		
	FPOT from Off - Simplex			203.22		
	Warm-up Time			193.14		
B&W Mode	FPOT from Ready - Simplex	8.03	8.09	7.65	7.93	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			32.88		76 Minutes
	Recovery Time			25.2		
	FPOT from Off - Simplex			199.56		
	Warm-up Time			191.91		

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	35.17	36.36	33.98	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	22.72	22.41	23.02	N/A	Adobe Reader	15 Minutes
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	N/A
B&W Mode	FPOT from Sleep	32.88	32.94	32.81	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	20.74	20.59	20.88	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 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
Printing Device Connection	USB Subsystem	USB 2.0/3.0
	TCP/IP	10/1000
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Office 2016
	Print Driver	Adobe Reader DC 6.8.0.24296

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

Full Detailed Test Report - A4

HP Color LaserJet Managed Flow MFP E78330z

Printing device and settings	
Test Start Date and Time	3/19/2021 13:11
Tester	Jwon
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
Colour or B&W	Colour
FW Version	2501517_000147
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	79 degF / 26 degC 12 %rH
Voltage	220V
Test End Date and Time	3/26/2021 13:03

Item	Value
Mode and Setting	PDL and driver version
	6.8.0.24296
	Print Quality mode
	default
Paper	B&W settings
	default
	Paper feed orientation
	Short Edge
Paper Path	Paper type setting
	default
	Paper feeding
	Standard cassette
Paper Path	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	10.61
	Duplex	
B&W	Simplex	8.07
	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	10.45	11.29	10.08	10.61	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			33.03		76 Minutes
	Recovery Time			23.0		
	FPOT from Off - Simplex			200.43		
	Warm-up Time			190.35		
B&W Mode	FPOT from Ready - Simplex	8.48	8.09	7.62	8.07	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			32.02		76 Minutes
	Recovery Time			24.4		
	FPOT from Off - Simplex			196.31		
	Warm-up Time			188.69		

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
Color Mode	FPOT from Sleep	33.03	32.37	33.69	N/A	Adobe Reader
	FPOT from Sleep (15 minutes) HP/Non ISO Test	22.45	22.49	22.41	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	32.02	32.22	31.62	N/A	Adobe Reader
	FPOT from Sleep (15 minutes) HP/Non ISO Test	21.59	21.99	21.18	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
Printing Device Connection	Hard Drive Subsystem
	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem
	Microsoft Basic Display Adaptor
	Optical Drive
Software	HP HLDS DVD/CD 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
Software	Microsoft Office 2016
	Adobe Reader DC
Software	Print Driver
	6.8.0.24296

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP Color LaserJet Managed Flow MFP E78330z

Machine Setup Information

	Test Start Date and Time	3/22/2021 12:17
	Tester	Not Specified
	Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
	Colour or B&W	Colour
	FW Version	Not Specified
	Configuration (options)	Not Specified
	Temperature and Humidity	79 degF / 26 degC 12 %rH
	Test End Date and Time:	3/22/2021 14:43

	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)
Color	8.10	30.14
B&W	6.85	30.15

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	
Color	A	8.10	7.40	24.36 17 sets	29.17 122 sets	30.14
	B					
	C					
	D					
	Average	8.10	7.40	24.36	29.17	30.14
B&W	A	6.85	8.75	25.59 18 sets	29.32 123 sets	30.15
	B					
	C					
	D					
	Average	6.85	8.75	25.59	29.32	30.15

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 Managed Flow MFP E78330z

Machine Setup Information

	Test Start Date and Time	3/22/2021 12:17
	Tester	Not Specified
	Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
	Colour or B&W	Colour
	FW Version	Not Specified
	Configuration (options)	Not Specified
	Temperature and Humidity	79 degF / 26 degC 12 %rH
	Test End Date and Time:	3/22/2021 14:43

	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)
Colour	8.15	30.15
B&W	6.78	30.15

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	
Colour	A	8.15	7.36	24.14 17 sets	29.36 122 sets	30.15
	B					
	C					
	D					
	Average	8.15	7.36	24.14	29.36	30.15
B&W	A	6.78	8.85	25.55 17 sets	29.12 123 sets	30.15
	B					
	C					
	D					
	Average	6.78	8.85	25.55	29.12	30.15

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	17.09	14.05	24.54	29.00	30.15
			(1 set)	5 sets	32 sets	
	1:2	28.43	8.42	15.66	20.6	21.98
			(1 set)	4 sets	24 sets	
	2:2	26.87	8.92	16.16	20.74	21.98
			(1 set)	4 sets	24 sets	
B&W mode	1:1	16.16	14.85	24.98	29.20	30.15
				5 sets	32 sets	
	1:2	28.25	8.48	15.62	20.42	21.78
				4 sets	23 sets	
	2:2	25.64	9.34	15.60	20.58	21.82
				4 sets	23 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	17.00	14.12	24.59	29.09	30.14
			(1 set)	5 sets	32 sets	
	1:2	28.48	8.42	15.66	20.64	22.08
			(1 set)	4 sets	24 sets	
	2:2	26.98	8.88	16.32	20.8	22.06
			(1 set)	4 sets	24 sets	
B&W mode	1:1	16.19	14.83	24.74	29.20	30.15
				5 sets	32 sets	
	1:2	27.59	8.68	15.76	20.5	21.88
				4 sets	23 sets	
	2:2	25.66	9.34	16.26	20.66	21.88
				4 sets	23 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	3/16/2021 13:43
	Tester	Jiwon
	Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	80 degF / 27 degC 12 %rH
	Voltage	220V
	Test End Date and Time	3/17/2021 17:14

	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 1.4	200	single sided	123.18
			double sided	261.23
B&W	PDF 1.4	200	single sided	121.59
			double sided	244.52

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	59.15	6.74	18.00
			double sided	60.39	13.62	34.00
B&W	PDF 1.4	200	single sided	61.65	6.30	18.00
			double sided	66.66	12.85	35.00

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	33.89	109.6	123.18
			double sided	45.49	228.63	261.23
B&W	PDF 1.4	200	single sided	32.94	108.32	121.59
			double sided	43.99	214.17	244.52

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	18.54	59.15	6.74	18
			double sided	18.47	60.39	13.62	34
B&W	PDF 1.4	200	single sided	18.07	61.65	6.30	18
			double sided	23.92	66.66	12.85	35

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
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	3/16/2021 13:43	
Tester	Jiwon	
Machine name/model	HP Color LaserJet Managed Flow MFP E78330z	
Colour or B&W	Colour	
Configuration (options)	Default	
Temperature and Humidity	80 degF / 27 degC 12 %rH	
Voltage	220V	
Test End Date and Time	3/17/2021 17:14	

	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 1.4	200	single sided	131.50
			double sided	271.76
B&W	PDF 1.4	200	single sided	138.50
			double sided	267.21

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: 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	56.09	7.37	19.00
			double sided	71.32	12.17	36.00
B&W	PDF 1.4	200	single sided	69.20	5.56	19.00
			double sided	100.09	9.22	37.00

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: 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	35.52	117.64	131.5
			double sided	41.73	238.75	271.76
B&W	PDF 1.4	200	single sided	39.73	120.22	138.5
			double sided	42.81	235.25	267.21

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: 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	17.83	56.09	7.37	19
			double sided	18.11	71.32	12.17	36
B&W	PDF 1.4	200	single sided	20.49	69.20	5.56	19
			double sided	18.39	100.09	9.22	37

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 - Tabloid

Machine Setup Information		
	Test Start Date and Time	3/16/2021 13:43
	Tester	Jiwon
	Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	80 degF / 27 degC 12 %rH
	Voltage	220V
	Test End Date and Time	3/17/2021 17:14

	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: Tabloid

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	83.20
			double sided	149.65
B&W	PDF 1.4	200	single sided	74.94
			double sided	150.68

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: Tabloid

	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	43.77	6.48	12.00
			double sided	33.98	14.66	20.00
B&W	PDF 1.4	200	single sided	45.98	5.30	11.00
			double sided	45.59	12.61	20.00

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: Tabloid

	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	31.71	73.08	83.2
			double sided	39.54	131.01	149.65
B&W	PDF 1.4	200	single sided	31.93	66.95	74.94
			double sided	39.22	132.93	150.68

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: Tabloid

	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	15.31	43.77	6.48	12
			double sided	14.20	33.98	14.66	20
B&W	PDF 1.4	200	single sided	15.38	45.98	5.30	11
			double sided	22.64	45.59	12.61	20

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 - A3**

Machine Setup Information		
	Test Start Date and Time	3/16/2021 13:43
	Tester	Jiwon
	Machine name/model	HP Color LaserJet Managed Flow MFP E78330z
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	80 degF / 27 degC 12 %rH
	Voltage	220V
	Test End Date and Time	3/17/2021 17:14

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: A3**

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	77.28
			double sided	155.68
B&W	PDF 1.4	200	single sided	77.16
			double sided	149.38

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: A3**

	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	32.23	7.53	11.00
			double sided	32.77	16.63	21.00
B&W	PDF 1.4	200	single sided	37.65	5.95	11.00
			double sided	41.89	6.20	21.00

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: A3**

	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	32.23	68.15	77.28
			double sided	40.00	137.47	155.68
B&W	PDF 1.4	200	single sided	32.19	68.65	77.16
			double sided	40.57	131.64	149.38

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: A3**

	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	16.38	32.23	7.53	11
			double sided	15.86	32.77	16.63	21
B&W	PDF 1.4	200	single sided	15.06	37.65	5.95	11
			double sided	15.36	41.89	6.20	21

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
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