

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER
HP Color LaserJet MFP E87650DU

Printing device and settings		
Test Start Date and Time	6/6/2019 14:22	
Tester	RM	
Machine name/model	HP Color LaserJet MFP E87650DU	
Colour or B&W	Colour	
FW Version	2407346_045692	
Temperature and Humidity	74 degF / 23 degC, 16.6 %rH	
Voltage	110V	
Test End Date and Time	6/26/2019 15:10	

	Item	Value
Mode and Setting	Driver Version	6.7.0.23989
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	11.64	50.41
	Duplex	18.73	50.56
B&W	Simplex	9.87	50.41
	Duplex	16.40	50.55

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	12.42	19.32 (1 set)	41.66 (8 sets)	47.26 (52 sets)	50.41
	Simplex - Word	11.17	21.48 (1 set)	42.48 (8 sets)		50.41
	Simplex - Excel	11.32	21.20 (1 set)	42.85 (8 sets)		50.42
	Simplex - Average	11.64	20.66 (1 set)	42.33 (8 sets)	47.26	50.41
	Duplex - Adobe Reader	18.59	12.90 (1 set)	36.22 (8 sets)		50.56
	Duplex - Word	17.46	13.74 (1 set)	37.54 (8 sets)		50.56
	Duplex - Excel	20.14	11.92 (1 set)	37.56 (8 sets)		50.58
	Duplex - Average	18.73	12.85 (1 set)	37.10 (8 sets)		50.56
	Simplex - Adobe Reader	10.41	23.06 (1 set)	44.17 (8 sets)	48.57 (52 sets)	50.40
	Simplex - Word	9.52	25.22 (1 set)	44.64 (8 sets)		50.44
B&W mode (optional for color device)	Simplex - Excel	9.67	24.82 (1 set)	44.40 (8 sets)		50.40
	Simplex - Average	9.87	24.36 (1 set)	44.40 (8 sets)	48.6	50.41
	Duplex - Adobe Reader	15.73	15.24 (1 set)	38.80 (8 sets)		50.56
	Duplex - Word	15.31	15.68 (1 set)	39.66 (8 sets)		50.54
	Duplex - Excel	18.14	13.24 (1 set)	39.32 (8 sets)		50.56
	Duplex - Average	16.40	14.72 (1 set)	39.26 (8 sets)		50.55

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 Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
IO Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
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 MFP E87650DU

Printing device and settings		
Test Start Date and Time	6/6/2019 14:22	
Tester	RM	
Machine name/model	HP Color LaserJet MFP E87650DU	
Colour or B&W	Colour	
FW Version	2407346_045692	
Temperature and Humidity	74 degF / 23 degC, 16.6 %rH	
Voltage	110V	
Test End Date and Time	6/26/2019 15:10	

	Item	Value
Mode and Setting	Driver Version	6.7.0.23989
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4

Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Colour	Simplex	11.73	50.40
	Duplex	17.89	50.55
B&W	Simplex	9.91	50.41
	Duplex	15.36	50.56

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) 1 set only (1 set)	EFTP (ipm)		ESAT (ipm) 1 set + 30sec
			1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)
Colour Mode	Simplex - Adobe Reader	12.70	18.91 (1 set)	41.25 (8 sets)	48.32 (52 sets)
	Simplex - Word	11.22	21.40 (1 set)	42.84 (8 sets)	50.39
	Simplex - Excel	11.26	21.32 (1 set)	42.84 (8 sets)	50.41
	Simplex - Average	11.73	20.54 (1 set)	42.31 (8 sets)	48.32
	Duplex - Adobe Reader	18.66	12.86 (1 set)	36.24 (8 sets)	50.54
	Duplex - Word	17.60	13.62 (1 set)	37.46 (8 sets)	50.56
	Duplex - Excel	17.41	13.78 (1 set)	36.56 (8 sets)	50.56
	Duplex - Average	17.9	13.42 (1 set)	36.75 (8 sets)	50.55
B&W mode (optional for color device)	Simplex - Adobe Reader	10.19	23.56 (1 set)	44.21 (8 sets)	48.60 (52 sets)
	Simplex - Word	9.54	25.18 (1 set)	44.48 (8 sets)	50.42
	Simplex - Excel	9.98	24.04 (1 set)	43.81 (8 sets)	50.39
	Simplex - Average	9.9	24.26 (1 set)	44.16 (8 sets)	48.6
	Duplex - Adobe Reader	15.82	15.16 (1 set)	38.00 (8 sets)	50.56
	Duplex - Word	14.98	16.02 (1 set)	39.46 (8 sets)	50.56
	Duplex - Excel	15.27	15.70 (1 set)	39.34 (8 sets)	50.56
	Duplex - Average	15.4	15.62 (1 set)	38.93 (8 sets)	50.56

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 Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
IO Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
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 MFP E87650DU

Printing device and settings		
Test Start Date and Time	6/6/2019 14:22	
Tester	RM	
Machine name/model	HP Color LaserJet MFP E87650DU	
Colour or B&W	Colour	
FW Version	2407346_045692	
Temperature and Humidity	74 degF / 23 degC, 16.6 %rH	
Voltage	110V	
Test End Date and Time	6/26/2019 15:10	

	Item	Value
Mode and Setting	Driver Version	6.7.0.23989
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Tabloid

Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	11.64	26.90
	Duplex	18.73	26.99
B&W	Simplex	14.58	26.90
	Duplex	21.91	26.98

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 + 30sec (# of sets)	1 set + 4min (# of sets)
Color Mode	Simplex - Adobe Reader	17.53	13.68	22.12	25.58
			(1 set)	(5 sets)	(29 sets)
	Simplex - Word	16.66	14.41	22.78	26.90
			(1 set)	(5 sets)	(29 sets)
	Simplex - Excel	16.69	14.38	22.73	26.91
			(1 set)	(5 sets)	(29 sets)
	Simplex - Average	16.96	14.15	22.54	25.58
			(1 set)	(5 sets)	(29 sets)
B&W mode (optional for color device)	Duplex - Adobe Reader	27.91	8.60	19.16	27.02
			(1 set)	(5 sets)	(29 sets)
	Duplex - Word	24.07	9.96	19.84	26.98
			(1 set)	(5 sets)	(29 sets)
	Duplex - Excel	23.80	10.08	19.92	26.98
			(1 set)	(5 sets)	(29 sets)
	Duplex - Average	25.26	9.54	19.64	26.99
			(1 set)	(5 sets)	(29 sets)
B&W mode (optional for color device)	Simplex - Adobe Reader	15.11	15.88	22.73	25.80
			(1 set)	(5 sets)	(28 sets)
	Simplex - Word	14.28	16.81	23.92	26.90
			(1 set)	(5 sets)	(29 sets)
	Simplex - Excel	14.34	16.73	23.76	26.90
			(1 set)	(5 sets)	(29 sets)
	Simplex - Average	14.58	16.47	23.47	25.80
			(1 set)	(5 sets)	(28 sets)
B&W mode (optional for color device)	Duplex - Adobe Reader	23.40	10.24	20.28	27.00
			(1 set)	(5 sets)	(29 sets)
	Duplex - Word	21.02	11.40	20.30	26.98
			(1 set)	(5 sets)	(29 sets)
	Duplex - Excel	21.30	11.26	21.02	26.98
			(1 set)	(5 sets)	(29 sets)
	Duplex - Average	21.91	10.96	20.53	26.98
			(1 set)	(5 sets)	(29 sets)

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 Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
IO Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
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 MFP E87650DU

Printing device and settings		
Test Start Date and Time	6/6/2019 14:22	
Tester	RM	
Machine name/model	HP Color LaserJet MFP E87650DU	
Colour or B&W	Colour	
FW Version	2407346_045692	
Temperature and Humidity	74 degF / 23 degC, 16.6 %rH	
Voltage	110V	
Test End Date and Time	6/26/2019 15:10	

	Item	Value
Mode and Setting	Driver Version	6.7.0.23989
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A3			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	11.64	26.90
	Duplex	18.73	26.97
B&W	Simplex	14.73	26.90
	Duplex	21.97	26.98

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	17.50	13.72 (1 set)	22.35 (5 sets)	25.69 (28 sets)	26.89
	Simplex - Word	17.07	14.06 (1 set)	22.81 (5 sets)		26.90
	Simplex - Excel	16.42	14.61 (1 set)	22.90 (5 sets)		26.91
	Simplex - Average	17.00	14.13 (1 set)	22.68 (5 sets)	25.69	26.90
	Duplex - Adobe Reader	26.16	9.16 (1 set)	18.54 (5 sets)		26.96
	Duplex - Word	24.27	9.88 (1 set)	19.74 (5 sets)		26.98
	Duplex - Excel	24.26	9.90 (1 set)	20.00 (5 sets)		26.98
	Duplex - Average	24.90	9.64 (1 set)	19.42 (5 sets)		26.97
	Simplex - Adobe Reader	15.10	15.89 (1 set)	23.05 (5 sets)	25.76 (28 sets)	26.88
B&W mode (optional for color device)	Simplex - Word	14.32	16.75 (1 set)	23.73 (5 sets)		26.90
	Simplex - Excel	14.77	16.25 (1 set)	23.96 (5 sets)		26.93
	Simplex - Average	14.73	16.29 (1 set)	23.58 (5 sets)	25.76	26.90
	Duplex - Adobe Reader	23.78	10.08 (1 set)	20.12 (5 sets)		26.98
	Duplex - Word	20.96	11.44 (1 set)	20.98 (5 sets)		26.98
	Duplex - Excel	21.15	11.34 (1 set)	21.08 (5 sets)		26.98
	Duplex - Average	21.97	10.95 (1 set)	20.72 (5 sets)		26.98

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 Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
IO Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
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 MFP E87650DU

Printing device and settings		
Test Start Date and Time	6/6/2019 14:22	
Tester	RM	
Machine name/model	HP Color LaserJet MFP E87650DU	
Colour or B&W	Colour	
FW Version	2407346_045692	
Temperature and Humidity	74 degF / 23 degC, 16.6 %rH	
Voltage	110V	
Test End Date and Time	6/26/2019 15:10	

	Item	Value
Mode and Setting	Driver Version	6.7.0.23989
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

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	104%	100%
A5, Portrait Feed, Simplex, Colour	Simplex	100%	100%
Legal, Simplex, Colour	Simplex	75%	60%
Legal, Duplex, Colour	Duplex	60%	60%
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	90%	100%
A5, Portrait Feed, Simplex, B/W	Simplex	102%	100%
Legal, Simplex, B/W	Simplex	67%	59%
Legal, Duplex, B/W	Duplex	55%	60%
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	17.26	50.4	16.75	50.4	104%	100%
A5, Portrait Feed, Simplex, Colour	17.26	50.4	17.33	50.4	100%	100%
Legal, Simplex, Colour	17.82	50.42	23.98	30.3	75%	60%
Legal, Duplex, Colour	17.82	50.42	29.71	30.3	60%	60%
A4, 1200 dpi, Simplex, Colour	17.26	50.4				
Letter, 1200 dpi, Simplex, Colour	17.82	50.42				
A4, General Office, Simplex, Colour	17.26	50.4				
Letter, General Office, Simplex, Colour	17.82	50.42				
A5, Landscape Feed, Simplex, B/W	15.38	50.42	17.14	50.4	90%	100%
A5, Portrait Feed, Simplex, B/W	15.38	50.42	15.15	50.4	102%	100%
Legal, Simplex, B/W	15.28	50.43	22.98	30.1	67%	59%
Legal, Duplex, B/W	15.28	50.43	27.83	30.3	55%	60%
A4, 1200 dpi, Simplex, B/W	15.38	50.42				
Letter, 1200 dpi, Simplex, B/W	15.28	50.43				
A4, General Office, Simplex, B/W	15.38	50.42				
Letter, General Office, Simplex, B/W	15.28	50.43				

Notes

- 1) All printing device and driver settings were default mode.
- 2) Test conducted with 8-paper Office Feature Performance file.
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters		
	Item	Value
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A.DH16aCSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
I/O	TCP/IP TCP/IP 10/1000	
Software	Operating System	Windows 7 64 Bit
	Printing Applications	Microsoft Office 2010
	Microsoft Office	Office 2010
	Adobe Reader	10
	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 MFP E87650DU

Printing device and settings	
Test Start Date and Time	6/8/2019 14:22
Tester	RM
Machine name/model	HP Color LaserJet MFP E87650DU
Colour or B&W	Colour
FW Version	2407346_045692
Configuration (options)	Default
Controller	N/A
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	6/20/2019 15:10

	Item	Value
Mode and Setting	PDL and driver version	6.7.0.23989
	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	7.80
	Duplex	
B&W	Simplex	6.18
	Duplex	

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/printerdetails>.
- 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	7.68	7.60	8.12	7.80	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			22.60		76 Minutes
	Recovery Time			14.5		
	FPOT from Off - Simplex			176.09		
	Warm-up Time			167.97		
B&W Mode	FPOT from Ready - Simplex	5.95	6.12	6.47	6.18	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			20.94		76 Minutes
	Recovery Time			14.5		
	FPOT from Off - Simplex			173.49		
	Warm-up Time			167.02		

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/printerdetails>.
- 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	22.60	22.65	22.55	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	18.62	18.70	18.53	N/A	Adobe Reader	15 Minutes
	FPOT from Sleep	20.94	20.95	20.93	N/A	Adobe Reader	76 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	16.99	17.03	16.95	N/A	Adobe Reader	15 Minutes

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

Test System Parameters		
	Item	Value
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aC-SHR ATA
	IO Subsystem	Builitin
Printing Device Connection	USB Subsystem	USB 2.0/3.0
	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 6.7.0.23989

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

Full Detailed Test Report - A4

HP Color LaserJet MFP E87650DU	
Printing device and settings	
Test Start Date and Time	6/6/2019 14:22
Tester	RM
Machine name/model	HP Color LaserJet MFP E87650DU
Colour or B&W	Colour
FW Version	2407346_045692
Configuration (options)	Default
Controller	N/A
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	6/26/2019 15:10
Item Value	
Mode and Setting	PDL and driver version 6.7.0.23989
	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	7.77
	Duplex	
B&W	Simplex	6.16
	Duplex	
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.		
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	7.45	7.81	8.03	7.77	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			22.59		76 Minutes
	Recovery Time			14.6		
	FPOT from Off - Simplex			174.14		
	Warm-up Time			166.11		
B&W Mode	FPOT from Ready - Simplex	5.97	6.06	6.43	6.16	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			21.19		76 Minutes
	Recovery Time			14.8		
	FPOT from Off - Simplex			170.07		
	Warm-up Time			163.64		
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.						
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	22.59	22.54	22.63	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	18.84	18.98	18.69	N/A	Adobe Reader	15 Minutes
	FPOT from Sleep	21.19	21.22	21.16	N/A	Adobe Reader	76 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	17.05	17.27	16.83	N/A	Adobe Reader	15 Minutes
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 DLP includes detailed iterations as data measurements may vary run to run.							

Test System Parameters	
Item	Value
Test System	Computer HP Compag Elite 8300 Small Form Factor
	Processor Intel Core i7 -3770, 3.4 GHz
	System Chip Set Intel C216 Chipset Family SMBus Host Controller
	System Board system devices, default system BIOS
	System Memory 4 GB
	Hard Drive Subsystem Standard disk drive (Seagate)
	Video Subsystem AMD Radeon HD 6350
	Optical Drive HP DVD A DH16aCSHR ATA
	I/O Subsystem Built-in
Printing Device Connection	TCP/IP 10/1000
	Operating System Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Software	Printing Applications Microsoft Office 2010 SP2
	Print Driver Adobe Reader 10.1.4 6.7.0.23989

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP Color LaserJet MFP E87650DU

Machine Setup Information

Test Start Date and Time	6/5/2019 10:20
Tester	RM
Machine name/model	HP Color LaserJet MFP E87650DU
Colour or B&W	Colour
FW Version	2407346_045692
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time	6/12/2019 17:16

	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	5.20	50.41
B&W	4.88	50.41

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	5.20	11.53	41.82 27 sets	29.49 203 sets	50.41
	B					
	C					
	D					
	Average	5.20	11.53	41.82	29.49	50.41
B&W	A	4.88	12.30	43.85 27 sets	29.71 207 sets	50.41
	B					
	C					
	D					
	Average	4.88	12.30	43.85	29.71	50.41

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 MFP E87650DU	

Machine Setup Information		
	Test Start Date and Time	6/5/2019 10:20
	Tester	RM
	Machine name/model	HP Color LaserJet MFP E87650DU
	Colour or B&W	Colour
	FW Version	2407346 045692
	Configuration (options)	Not Specified
	Temperature and Humidity	74 degF / 23 degC 16.6 %rH
	Test End Date and Time	6/12/2019 17:16

	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

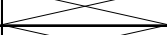
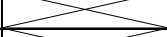
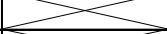
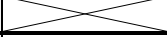
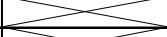
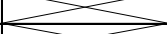
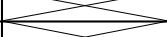

Summary Report: A4		
	sFCOT	sESAT (ipm)
Colour	5.68	50.40
B&W	5.05	50.40

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	5.68	10.57	42.03 27 sets	48.71 203 sets	50.40
	B					
	C					
	D					
	Average	5.68	10.57	42.03	48.71	50.40
B&W	A	5.05	11.91	43.80 27 sets	48.88 203 sets	50.40
	B					
	C					
	D					
	Average	5.05	11.91	43.80	48.88	50.40

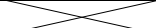

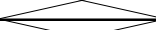
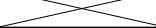
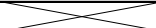
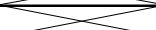
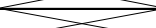
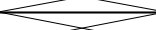
Notes
First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
Only Target A was used, all test documents have the same Saturated 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	11.35	21.15	43.32	26.80	50.40
			(1 set)	8 sets	52 sets	
	1:2	18.41	13.02	37.16		50.54
			(1 set)	8 sets		
	2:2	18.23	13.16	37.22		50.56
			(1 set)	8 sets		
B&W mode	1:1	11.09	21.67	42.93	28.77	50.44
				8 sets	52 sets	
	1:2	18.12	13.24	37.38		50.56
				8 sets		
	2:2	19.25	12.46	37.42		50.56
				8 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	12.37	19.41	42.93	28.65	50.41
			(1 set)	8 sets	52 sets	
	1:2	18.59	12.90	37.00		50.56
			(1 set)	8 sets		
	2:2	18.56	12.92	37.08		50.56
			(1 set)	8 sets		
B&W mode	1:1	10.91	22.04	43.76	48.71	50.44
				8 sets	52 sets	
	1:2	18.28	13.12	37.22		50.56
				8 sets		
	2:2	17.73	13.54	37.68		50.56
				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	6/12/2019 11:05
	Tester	RM
	Machine name/model	HP Color LaserJet MFP E87650DU
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	74 degF / 23 degC 16.6 %rH
	Voltage	110V
	Test End Date and Time	6/12/2019 14:47

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

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

Summary Report: Letter

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	85.29
			double sided	169.09
B&W	PDF 1.4	200	single sided	84.98
			double sided	169.22

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	60.63	4.81	12.00
			double sided	63.81	10.04	23.00
B&W	PDF 1.4	200	single sided	67.77	2.20	12.00
			double sided	122.66	4.16	23.00

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	42.68	79.22	85.29
			double sided	52.40	155.05	169.09
B&W	PDF 1.4	200	single sided	42.46	78.69	84.98
			double sided	54.27	154.98	169.22

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	28.33	60.63	4.81	12
			double sided	26.66	63.81	10.04	23
B&W	PDF 1.4	200	single sided	30.00	67.77	2.20	12
			double sided	34.28	122.66	4.16	23

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 Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Scanning Device Connection	Operating System	Windows 7 Business/Ultimate, 64 bit_Build 7601, SP 1
	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	6/12/2019 11:05
	Tester	RM
	Machine name/model	HP Color LaserJet MFP E87650DU
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	74 degF / 23 degC 16.6 %rH
	Voltage	110V
	Test End Date and Time	6/12/2019 14:47

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	86.41
			double sided	171.47
B&W	PDF 1.4	200	single sided	85.90
			double sided	170.89

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	60.02	4.85	12.00
			double sided	63.45	9.23	23.00
B&W	PDF 1.4	200	single sided	67.77	2.19	12.00
			double sided	121.33	4.20	23.00

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	42.79	79.68	86.41
			double sided	53.26	156.63	171.47
B&W	PDF 1.4	200	single sided	44.06	79.57	85.9
			double sided	51.22	155.99	170.89

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	26.66	60.02	4.85	12
			double sided	28.33	63.45	9.23	23
B&W	PDF 1.4	200	single sided	30.00	67.77	2.19	12
			double sided	32.14	121.33	4.20	23

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 Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Built-in
	USB Subsystem	USB 2.0/3.0
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - Tabloid

Machine Setup Information		
	Test Start Date and Time	6/12/2019 11:05
	Tester	RM
	Machine name/model	HP Color LaserJet MFP E87650DU
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	74 degF / 23 degC 16.6 %RH
	Voltage	110V
	Test End Date and Time	6/12/2019 14:47

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: Tabloid

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	49.24
			double sided	98.56
B&W	PDF 1.4	200	single sided	49.23
			double sided	99.01

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	34.59	5.81	8.00
			double sided	35.18	11.80	14.00
B&W	PDF 1.4	200	single sided	39.18	2.66	8.00
			double sided	69.28	4.68	14.00

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	28.12	46.07	49.24
			double sided	43.53	90.79	98.56
B&W	PDF 1.4	200	single sided	30.43	46.08	49.23
			double sided	41.62	89.34	99.01

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	17.80	34.59	5.81	8
			double sided	19.23	35.18	11.80	14
B&W	PDF 1.4	200	single sided	20.00	39.18	2.66	8
			double sided	28.33	69.28	4.68	14

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 Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Scanning Device Connection	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	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	6/12/2019 11:05
	Tester	RM
	Machine name/model	HP Color LaserJet MFP E87650DU
	Colour or B&W	Colour
	Configuration (options)	Default
	Temperature and Humidity	74 degF / 23 degC 16.6 %rH
	Voltage	110V
	Test End Date and Time	6/12/2019 14:47

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: A3

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	50.58
			double sided	100.34
B&W	PDF 1.4	200	single sided	50.65
			double sided	100.20

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".

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	33.68	5.86	8.00
			double sided	35.55	10.12	14.00
B&W	PDF 1.4	200	single sided	40.00	2.68	8.00
			double sided	70.74	4.65	14.00

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	31.09	47.31	50.58
			double sided	43.23	91.94	100.34
B&W	PDF 1.4	200	single sided	31.37	47.42	50.65
			double sided	43.04	90.47	100.2

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	19.23	33.68	5.86	8
			double sided	20.00	35.55	10.12	14
B&W	PDF 1.4	200	single sided	24.00	40.00	2.68	8
			double sided	22.56	70.74	4.65	14

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 Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
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	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Scanning Device Connection	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	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