

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER  
HP Color LaserJet MFP E77428DN

Printing device and settings		
Test Start Date and Time	5/6/2019 21:29	
Tester	TQW	
Machine name/model	HP Color LaserJet MFP E77428DN	
Colour or B&W	Colour	
FW Version	2407346_045696	
Temperature and Humidity	74 degF / 23 degC 22.0 %rH	
Voltage	110V	
Test End Date and Time	8/5/2019 13:36	

Item	Value	
Mode and Setting	Driver Version	6.6.5.23510
	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
	Output Orientation	Default (face down)
Paper	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for Color Device	FSOT (seconds)	ESAT (ipm)
Color	Simplex	17.03	28.16
	Duplex	26.01	19.48
B&W	Simplex	14.92	28.16
	Duplex	23.61	19.35

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

Detailed Report: LETTER						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)		1 set + 4min (# of sets)
Color Mode	Simplex - Adobe Reader	17.34	13.84 (1 set)	23.32 (5 sets)	21.41 (30 sets)	28.17
	Simplex - Word	16.80	14.28 (1 set)	23.68 (5 sets)		28.16
	Simplex - Excel	16.94	14.16 (1 set)	23.41 (5 sets)		28.16
	Simplex - Average	17.03	14.09 (1 set)	23.47 (5 sets)	21.41 (30 sets)	28.16
	Duplex - Adobe Reader	26.87	8.92 (1 set)	15.40 (4 sets)		19.48
	Duplex - Word	25.51	9.40 (1 set)	15.82 (4 sets)		19.48
	Duplex - Excel	25.64	9.34 (1 set)	15.80 (4 sets)		19.48
	Duplex - Average	26.01	9.22 (1 set)	15.67 (4 sets)		19.48
B&W mode (optional for color device)	Simplex - Adobe Reader	15.23	15.75 (1 set)	24.37 (5 sets)	21.66 (30 sets)	28.16
	Simplex - Word	14.49	16.56 (1 set)	24.72 (5 sets)		28.16
	Simplex - Excel	15.02	15.98 (1 set)	24.65 (5 sets)		28.16
	Simplex - Average	14.92	16.09 (1 set)	24.58 (5 sets)	21.7 (30 sets)	28.16
	Duplex - Adobe Reader	23.75	10.10 (1 set)	16.14 (4 sets)		19.36
	Duplex - Word	23.40	10.24 (1 set)	16.36 (4 sets)		19.34
	Duplex - Excel	23.67	10.12 (1 set)	16.16 (4 sets)		19.36
	Duplex - Average	23.61	10.15 (1 set)	16.22 (4 sets)		19.35

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
I/O Subsystem	Built-in
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 E77428DN

Printing device and settings		
Test Start Date and Time	5/6/2019 21:29	
Tester	TQW	
Machine name/model	HP Color LaserJet MFP E77428DN	
Colour or B&W	Colour	
FW Version	2407346_045696	
Temperature and Humidity	74 degF / 23 degC 22.0 %rH	
Voltage	110V	
Test End Date and Time	8/5/2019 13:36	

Item	Value	
<b>Mode and Setting</b>	Driver Version	6.6.5.23510
	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)	
<b>Paper Path</b>	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	
<b>Paper</b>	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
<b>Colour</b>	Simplex	16.97	28.16
	Duplex	26.45	19.56
<b>B&amp;W</b>	Simplex	14.74	28.16
	Duplex	23.39	19.39

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)	
<b>Colour Mode</b>	Simplex - Adobe Reader	17.57	13.65 (1 set)	23.17 (5 sets)	21.41 (30 sets)	28.16
	Simplex - Word	16.61	14.44 (1 set)	23.66 (5 sets)		28.16
	Simplex - Excel	16.71	14.37 (1 set)	23.54 (5 sets)		28.16
	Simplex - Average	16.97	14.15 (1 set)	23.45 (5 sets)	21.41 (30 sets)	28.16
	Duplex - Adobe Reader	26.89	8.92 (1 set)	15.54 (4 sets)		19.56
	Duplex - Word	26.39	9.08 (1 set)	15.90 (4 sets)		19.56
	Duplex - Excel	26.07	9.20 (1 set)	15.90 (4 sets)		19.56
	Duplex - Average	26.5	9.06 (1 set)	15.78 (4 sets)		19.56
<b>B&amp;W mode</b> <small>(optional for color device)</small>	Simplex - Adobe Reader	14.95	16.05 (1 set)	24.37 (5 sets)	21.64 (30 sets)	28.16
	Simplex - Word	14.58	16.46 (1 set)	24.65 (5 sets)		28.16
	Simplex - Excel	14.69	16.34 (1 set)	24.58 (5 sets)		28.16
	Simplex - Average	14.7	16.28 (1 set)	24.53 (5 sets)	21.6 (30 sets)	28.16
	Duplex - Adobe Reader	23.80	10.08 (1 set)	16.12 (4 sets)		19.40
	Duplex - Word	23.09	10.38 (1 set)	16.46 (4 sets)		19.38
	Duplex - Excel	23.27	10.30 (1 set)	16.38 (4 sets)		19.40
	Duplex - Average	23.4	10.25 (1 set)	16.32 (4 sets)		19.39

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
I/O Subsystem	Builton
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 E77428DN

Printing device and settings		
Test Start Date and Time	5/6/2019 21:29	
Tester	TQW	
Machine name/model	HP Color LaserJet MFP E77428DN	
Colour or B&W	Colour	
FW Version	2407346_045696	
Temperature and Humidity	74 degF / 23 degC 22.0 %rH	
Voltage	110V	
Test End Date and Time	8/5/2019 13:36	

Item	Value	
Mode and Setting	Driver Version	6.6.5.23510
	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
	Output Orientation	Default (face down)
Paper	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Tabloid			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	17.03	15.66
	Duplex	26.01	10.74
B&W	Simplex	22.54	15.66
	Duplex	30.96	10.98

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 only (1 set)	1 set + 30sec (# of sets)		1 set + 4min (# of sets)
Color Mode	Simplex - Adobe Reader	24.69	9.72 ( 1 set )	12.80 ( 3 sets )	12.13 ( 17 sets )	15.66
	Simplex - Word	23.98	10.00 ( 1 set )	13.10 ( 3 sets )		15.67
	Simplex - Excel	23.53	10.19 ( 1 set )	13.15 ( 3 sets )		15.66
	Simplex - Average	24.07	9.97 ( 1 set )	13.01 ( 3 sets )	12.13	15.66
	Duplex - Adobe Reader	35.80	6.70 ( 1 set )	8.82 ( 3 sets )		10.74
	Duplex - Word	33.70	7.10 ( 1 set )	9.14 ( 3 sets )		10.74
	Duplex - Excel	33.09	7.24 ( 1 set )	9.10 ( 3 sets )		10.76
	Duplex - Average	34.20	7.01 ( 1 set )	9.02 ( 3 sets )		10.74
B&W mode (optional for color device)	Simplex - Adobe Reader	22.72	10.56 ( 1 set )	13.38 ( 3 sets )	12.24 ( 17 sets )	15.66
	Simplex - Word	22.49	10.67 ( 1 set )	13.61 ( 3 sets )		15.66
	Simplex - Excel	22.40	10.71 ( 1 set )	13.60 ( 3 sets )		15.66
	Simplex - Average	22.54	10.64 ( 1 set )	13.53 ( 3 sets )	12.24	15.66
	Duplex - Adobe Reader	32.45	7.58 ( 1 set )	9.36 ( 3 sets )		10.98
	Duplex - Word	30.25	7.92 ( 1 set )	9.72 ( 3 sets )		10.98
	Duplex - Excel	30.16	7.94 ( 1 set )	9.70 ( 3 sets )		11.00
	Duplex - Average	30.96	7.74 ( 1 set )	9.59 ( 3 sets )		10.98

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
I/O 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 E77428DN

Printing device and settings		
Test Start Date and Time	5/6/2019 21:29	
Tester	TQW	
Machine name/model	HP Color LaserJet MFP E77428DN	
Colour or B&W	Colour	
FW Version	2407346_045696	
Temperature and Humidity	74 degF / 23 degC 22.0 %rH	
Voltage	110V	
Test End Date and Time	8/5/2019 13:36	

Item	Value	
<b>Mode and Setting</b>	Driver Version	6.6.5.23510
	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)	
<b>Paper Path</b>	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	
<b>Paper</b>	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A3			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
<b>Color</b>	Simplex	17.03	15.66
	Duplex	26.01	10.82
<b>B&amp;W</b>	Simplex	22.52	15.66
	Duplex	31.45	11.05

Notes

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

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)	
<b>Color Mode</b>	Simplex - Adobe Reader	24.70	9.71 (1 set)	12.88 (3 sets)	12.15 (17 sets)	15.66
	Simplex - Word	23.78	10.09 (1 set)	13.12 (3 sets)		15.66
	Simplex - Excel	23.58	10.17 (1 set)	13.25 (3 sets)		15.67
	Simplex - Average	24.02	9.99 (1 set)	13.08 (3 sets)	12.15 (17 sets)	15.66
	Duplex - Adobe Reader	35.74	6.70 (1 set)	8.96 (3 sets)		10.82
	Duplex - Word	33.71	7.10 (1 set)	9.18 (3 sets)		10.82
	Duplex - Excel	33.08	7.24 (1 set)	9.18 (3 sets)		10.82
	Duplex - Average	34.18	7.01 (1 set)	9.10 (3 sets)		10.82
<b>B&amp;W mode</b> (optional for color device)	Simplex - Adobe Reader	22.80	10.53 (1 set)	13.40 (3 sets)	12.24 (17 sets)	15.66
	Simplex - Word	22.21	10.80 (1 set)	13.60 (3 sets)		15.67
	Simplex - Excel	22.55	10.64 (1 set)	13.66 (3 sets)		15.67
	Simplex - Average	22.52	10.65 (1 set)	13.55 (3 sets)	12.24 (17 sets)	15.66
	Duplex - Adobe Reader	32.72	7.32 (1 set)	9.40 (3 sets)		11.04
	Duplex - Word	31.00	7.72 (1 set)	9.64 (3 sets)		11.06
	Duplex - Excel	30.62	7.82 (1 set)	9.62 (3 sets)		11.06
	Duplex - Average	31.45	7.62 (1 set)	9.55 (3 sets)		11.05

Notes

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

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
I/O Subsystem	Built-in
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 E77428DN

Printing device and settings		
Test Start Date and Time	5/6/2019 21:29	
Tester	TQW	
Machine name/model	HP Color LaserJet MFP E77428DN	
Colour or B&W	Colour	
FW Version	2407346_045696	
Temperature and Humidity	74 degF / 23 degC 22.0 %rH	
Voltage	110V	
Test End Date and Time	8/5/2019 13:36	

Item	Value	
Mode and Setting	Driver Version	6.6.5.23510
	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)
	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		
A5, Portrait Feed, Simplex, Colour	Simplex	101%	100%
Legal, Simplex, Colour	Simplex	75%	64%
Legal, Duplex, Colour	Duplex	51%	42%
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	72%	64%
Legal, Duplex, B/W	Duplex	51%	43%
A4, 1200 dpi, Simplex, B/W	Simplex		
Letter, 1200 dpi, Simplex, B/W	Simplex		
A4, General Office, Simplex, B/W	Simplex		
Letter, General Office, Simplex, B/W	Simplex		

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

**Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test**

Printing Modes Feature Adobe Reader - Office test file (8-page)	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	25.78	28.16				
A5, Portrait Feed, Simplex, Colour	25.78	28.16	25.76	28.2	101%	100%
Legal, Simplex, Colour	26.19	28.16	35.16	18.2	75%	64%
Legal, Duplex, Colour	26.19	28.16	51.97	12.0	51%	42%
A4, 1200 dpi, Simplex, Colour	25.78	28.16				
Letter, 1200 dpi, Simplex, Colour	26.19	28.16				
A4, General Office, Simplex, Colour	25.78	28.16				
Letter, General Office, Simplex, Colour	26.19	28.16				
A5, Landscape Feed, Simplex, B/W	23.66	28.17				
A5, Portrait Feed, Simplex, B/W	23.66	28.17	23.44	28.2	101%	100%
Legal, Simplex, B/W	23.51	28.17	32.83	18.2	72%	64%
Legal, Duplex, B/W	23.51	28.17	46.83	12.3	51%	43%
A4, 1200 dpi, Simplex, B/W	23.66	28.17				
Letter, 1200 dpi, Simplex, B/W	23.51	28.17				
A4, General Office, Simplex, B/W	23.66	28.17				
Letter, General Office, Simplex, B/W	23.51	28.17				

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

**Test System Parameters**

Item	Value	
Test System	Computer	HP 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 DH16aC5HR 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 E77428DN

Printing device and settings	
Test Start Date and Time	5/6/2019 21:29
Tester	TQW
Machine name/model	HP Color LaserJet MFP E77428DN
Colour or B&W	Colour
FW Version	2407346_045696
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 22.0 %rH
Voltage	110V
Test End Date and Time	8/5/2019 13:36

Item	Value
<b>Mode and Setting</b>	
PDL and driver version	6.6.5.23510
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
<b>Paper</b>	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
<b>Paper Path</b>	
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	10.50
	Duplex	
B&W	Simplex	8.36
	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	10.18	10.41	10.91	10.50	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			34.52		95 Minutes
	Recovery Time			23.6		
	FPOT from Off - Simplex			154.97		
	Warm-up Time			144.06		
B&W Mode	FPOT from Ready - Simplex	8.18	8.32	8.58	8.36	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			31.05		95 Minutes
	Recovery Time			22.5		
	FPOT from Off - Simplex			154.47		
	Warm-up Time			145.89		

- 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	34.52	34.40	34.64	N/A	Adobe Reader	95 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	20.19	18.36	22.02	N/A	Adobe Reader	15 Minutes
B&W Mode	FPOT from Sleep	31.05	31.27	30.83	N/A	Adobe Reader	95 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	16.72	16.56	16.87	N/A	Adobe Reader	15 Minutes

- Notes
- 1) All printing device and driver settings were default mode.
  - 2) For the B/W results, the print driver was set to "print in B/W".
  - 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
Test System	Computer	HP 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 Memory	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 DH16aC5HR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2 Adobe Reader 10.1.4
	Print Driver	6.6.5.23510

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

Full Detailed Test Report - A4

HP Color LaserJet MFP E77428DN

Printing device and settings		
Test Start Date and Time	5/6/2019 21:29	
Tester	TQW	
Machine name/model	HP Color LaserJet MFP E77428DN	
Colour or B&W	Colour	
FW Version	2407346_045696	
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 22.0 %rH	
Voltage	110V	
Test End Date and Time	8/5/2019 13:36	

Item	Value
<b>Mode and Setting</b>	PDL and driver version: 6.6.5.23510
	Print Quality mode: default
	B&W settings: default
	Paper feed orientation: Short Edge
<b>Paper</b>	Paper type setting: default
	Paper feeding: Standard cassette
	Paper exit: Standard exit tray
<b>Paper Path</b>	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	10.53
	Duplex	
B&W	Simplex	8.24
	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	10.27	10.44	10.86	10.53	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			33.24		95 Minutes
	Recovery Time			22.4		
	FPOT from Off - Simplex			155.12		
	Warm-up Time			144.26		
B&W Mode	FPOT from Ready - Simplex	8.13	8.14	8.43	8.24	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			29.61		95 Minutes
	Recovery Time			21.2		
	FPOT from Off - Simplex			152.99		
	Warm-up Time			144.56		

- 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.
  - 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	33.24	33.11	33.37	N/A	Adobe Reader	95 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	20.10	19.30	20.90	N/A	Adobe Reader	15 Minutes
B&W Mode	FPOT from Sleep	29.61	29.74	29.47	N/A	Adobe Reader	95 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	16.98	17.00	16.96	N/A	Adobe Reader	15 Minutes

- Notes
- 1) All printing device and driver settings were default mode.
  - 2) For the B/W results, the print driver was set to "print in B/W".
  - 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
Test System	Computer	HP 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 DH16aC5HR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2 Adobe Reader 10.1.4
	Print Driver	6.6.5.23510

# ISO/IEC 29183 Copy Productivity Report

## Full Detailed Test Report - LETTER

HP Color LaserJet MFP E77428DN

Machine Setup Information	
Test Start Date and Time	5/19/2019 19:34
Tester	TQW
Machine name/model	HP Color LaserJet MFP E77428DN
Colour or B&W	Colour
FW Version	2407346_045696
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 22.0 %rH
Test End Date and Time	8/8/2019 15:50

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

Summary Report: <b>Letter</b>		
	sFCOT	sESAT (ipm)
<b>Color</b>	9.59	28.16
<b>B&amp;W</b>	6.80	28.16

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: <b>LETTER</b>						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
<b>Color</b>	A	9.59	6.25	23.98 19 sets	21.52 115 sets	28.16
	B					
	C					
	D					
	Average	9.59	6.25	23.98	21.52	28.16
<b>B&amp;W</b>	A	6.80	8.81	24.03 17 sets	21.65 114 sets	28.16
	B					
	C					
	D					
	Average	6.80	8.81	24.03	21.65	28.16

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 E77428DN

Machine Setup Information	
Test Start Date and Time	5/19/2019 19:34
Tester	TQW
Machine name/model	HP Color LaserJet MFP E77428DN
Colour or B&W	Colour
FW Version	2407346_045696
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 22.0 %rH
Test End Date and Time:	8/8/2019 15:50

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

Summary Report: A4		
	sFCOT	sESAT (ipm)
<b>Colour</b>	8.00	28.17
<b>B&amp;W</b>	6.66	28.16

Notes  
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.  
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
<b>Colour</b>	A	8.00	7.49	23.58 17 sets	21.57 115 sets	28.17
	B					
	C					
	D					
	Average	8.00	7.49	23.58	21.57	28.17
<b>B&amp;W</b>	A	6.66	9.00	24.36 16 sets	21.60 113 sets	28.16
	B					
	C					
	D					
	Average	6.66	9.00	24.36	21.60	28.16

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 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	5/19/2019 20:22
Tester	TQW
Machine name/model	HP Color LaserJet MFP E77428DN
Colour or B&W	Colour
FW Version	2407346_045696
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 22.0 %rH
Test End Date and Time:	8/7/2019 13:18
Pre-set Item	
Pre-set Value	
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default
Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4

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	16.37	14.66	24.28	21.57	28.16
			( 1 set )	6 sets	30 sets	
	1:2	34.63	6.92	14.90	<del>21.57</del>	19.80
			( 1 set )	5 sets	<del>30 sets</del>	
	2:2	36.06	6.64	14.60	<del>21.57</del>	19.82
			( 1 set )	5 sets	<del>30 sets</del>	
B&W mode	1:1	15.37	15.61	24.85	21.63	28.16
				6 sets	30 sets	
	1:2	28.53	8.40	16.06	<del>21.63</del>	19.70
				5 sets	<del>30 sets</del>	
	2:2	35.40	6.76	14.66	<del>21.63</del>	19.60
				5 sets	<del>30 sets</del>	
Notes						
Reports located: <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a>						

# ISO/IEC 24735 Copy Productivity Report

## Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	5/19/2019 20:22
Tester	TQW
Machine name/model	HP Color LaserJet MFP E77428DN
Colour or B&W	Colour
FW Version	2407346_045696
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 22.0 %rH
Test End Date and Time:	8/7/2019 13:18
Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default
Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / 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	17.64	13.60	24.18	21.57	28.17
			( 1 set )	6 sets	30 sets	
	1:2	34.60	6.92	14.96	<del>21.57</del>	19.90
			( 1 set )	5 sets	<del>30 sets</del>	
	2:2	35.66	6.72	14.76	<del>21.57</del>	19.90
			( 1 set )	5 sets	<del>30 sets</del>	
B&W mode	1:1	15.40	15.58	24.72	21.61	28.16
				6 sets	30 sets	
	1:2	28.90	8.28	15.54	<del>21.61</del>	19.72
				5 sets	<del>30 sets</del>	
	2:2	35.06	6.84	14.72	<del>21.61</del>	19.70
				5 sets	<del>30 sets</del>	
Notes						
Reports located: <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a>						

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	6/27/2019 15:03
Tester	NMP
Machine name/model	HP_Color LaserJet MFP E77428DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	73 degF / 23 degC 20.0 %rH
Voltage	110V
Test End Date and Time	7/29/2019 7:46

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	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 feed direction	default (long edge)
Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

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

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result
			Scanning side	scESAT 30secA (ipm)	
Colour	PDF 1.4	200	single sided	46.26	
			double sided	19.45	
B&W	PDF 1.4	200	single sided	46.08	
			double sided	19.45	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result		
			Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)	
Colour	PDF 1.4	200	single sided	33.94	2.64	7.00	
			double sided	15.60	2.01	4.00	
B&W	PDF 1.4	200	single sided	35.00	1.20	7.00	
			double sided	15.86	0.75	4.00	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

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

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result		
			Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)	
Colour	PDF 1.4	200	single sided	30.15	42.42	46.26	
			double sided	15.16	18.3	19.45	
B&W	PDF 1.4	200	single sided	27.80	41.82	46.08	
			double sided	15.57	18.25	19.45	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result			
			Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)	
Colour	PDF 1.4	200	single sided	15.00	33.94	2.64	7	
			double sided	11.16	15.60	2.01	4	
B&W	PDF 1.4	200	single sided	16.57	35.00	1.20	7	
			double sided	11.16	15.86	0.75	4	

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
	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 - A4

Machine Setup Information	
Test Start Date and Time	6/27/2019 15:03
Tester	NMP
Machine name/model	HP_Color LaserJet MFP E77428DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	73 degF / 23 degC 20.0 %rH
Voltage	110V
Test End Date and Time	7/29/2019 7:46

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	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 feed direction	default (long edge)
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	46.45
			double sided	19.75
B&W	PDF 1.4	200	single sided	46.51
			double sided	19.74

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	33.60	2.59	7.00
			double sided	16.00	1.66	4.00
B&W	PDF 1.4	200	single sided	35.76	1.15	7.00
			double sided	16.13	0.67	4.00

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	28.31	42.63	46.45
			double sided	15.67	18.58	19.75
B&W	PDF 1.4	200	single sided	29.05	42.85	46.51
			double sided	15.63	18.51	19.74

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	15.05	33.60	2.59	7
			double sided	10.71	16.00	1.66	4
B&W	PDF 1.4	200	single sided	17.23	35.76	1.15	7
			double sided	11.42	16.13	0.67	4

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
	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	6/27/2019 15:03
Tester	NMP
Machine name/model	HP_Color LaserJet MFP E77428DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	73 degF / 23 degC 20.0 %rH
Voltage	110V
Test End Date and Time	7/29/2019 7:46

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	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 feed direction	default (long edge)
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	27.52
			double sided	13.61
B&W	PDF 1.4	200	single sided	27.54
			double sided	13.61

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	20.33	3.43	5.00
			double sided	10.98	2.90	3.00
B&W	PDF 1.4	200	single sided	21.81	1.56	5.00
			double sided	11.51	1.05	3.00

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	20.28	25.56	27.52
			double sided	12.06	13.02	13.61
B&W	PDF 1.4	200	single sided	20.29	25.63	27.54
			double sided	12.08	13.06	13.61

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	12.31	20.33	3.43	5
			double sided	9.22	10.98	2.90	3
B&W	PDF 1.4	200	single sided	12.31	21.81	1.56	5
			double sided	9.60	11.51	1.05	3

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
	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 - A3

Machine Setup Information	
Test Start Date and Time	6/27/2019 15:03
Tester	NMP
Machine name/model	HP_Color LaserJet MFP E77428DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	73 degF / 23 degC 20.0 %rH
Voltage	110V
Test End Date and Time	7/29/2019 7:46

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	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 feed direction	default (long edge)
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	28.44
			double sided	13.88
B&W	PDF 1.4	200	single sided	27.97
			double sided	13.88

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	20.69	3.46	5.00
			double sided	11.33	2.49	3.00
B&W	PDF 1.4	200	single sided	22.01	1.55	5.00
			double sided	11.70	0.94	3.00

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	19.47	26.37	28.44
			double sided	12.15	13.25	13.88
B&W	PDF 1.4	200	single sided	20.82	25.88	27.97
			double sided	12.09	13.26	13.88

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	12.00	20.69	3.46	5
			double sided	9.05	11.33	2.49	3
B&W	PDF 1.4	200	single sided	13.33	22.01	1.55	5
			double sided	9.41	11.70	0.94	3

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
	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
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	Connection Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	