

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN

Printing device and settings	
Test Start Date and Time	4/24/2019 20:12
Tester	TOW
Machine name/model	HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN
Colour or B&W	Colour
FW Version	2407346_045648
Temperature and Humidity	177 degF / 25 degC 29.7 %rH
Voltage	110V
Test End Date and Time	8/5/2019 9:31

Item	Value	
Mode and Setting	Driver Version	6.7.0
	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	9.81	55.82
	Duplex	13.81	57.70
B&W	Simplex	9.57	55.78
	Duplex	13.12	56.78

Notes

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

Detailed Report: LETTER

Office Category Test	FSOT (secs)	EFTP (ipm)				
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec	
Color Mode	Simplex - Adobe Reader	9.55	25.13 (1 set)	49.06 (9 sets)	50.81 (60 sets)	55.83
	Simplex - Word	10.13	23.72 (1 set)	48.66 (9 sets)		55.81
	Simplex - Excel	9.74	24.63 (1 set)	48.63 (9 sets)		55.82
	Simplex - Average	9.81	24.49 (1 set)	48.78 (9 sets)	50.81 (60 sets)	55.82
	Duplex - Adobe Reader	13.72	17.48 (1 set)	43.28 (9 sets)		57.10
	Duplex - Word	14.00	17.12 (1 set)	44.28 (9 sets)		57.14
	Duplex - Excel	13.70	17.52 (1 set)	45.48 (9 sets)		58.86
	Duplex - Average	13.81	17.37 (1 set)	44.34 (9 sets)		57.70
B&W mode (optional for color device)	Simplex - Adobe Reader	9.89	24.27 (1 set)	49.49 (9 sets)	49.26 (60 sets)	55.78
	Simplex - Word	9.41	25.51 (1 set)	48.19 (8 sets)		55.79
	Simplex - Excel	9.39	25.55 (1 set)	48.25 (9 sets)		55.79
	Simplex - Average	9.57	25.11 (1 set)	48.97 (9 sets)	49.3 (60 sets)	55.78
	Duplex - Adobe Reader	12.90	18.58 (1 set)	45.30 (9 sets)		57.12
	Duplex - Word	13.22	18.14 (1 set)	46.24 (11 sets)		56.12
	Duplex - Excel	13.24	18.10 (1 set)	45.14 (9 sets)		57.12
	Duplex - Average	13.12	18.27 (1 set)	45.56 (9 sets)		56.78

Notes

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

Test System Parameters

Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVDWRV GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
	TCPIIP TCP/IP 10/100
Operating System	Win 10 Enterprise 64 Bit (10240)
Printing Applications	Microsoft Office Word 2016
	Acrobat Reader DC
	Microsoft Office Excel 2016
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN

Printing device and settings	
Test Start Date and Time	4/24/2019 20:12
Tester	TOW
Machine name/model	HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN
Colour or B&W	Colour
FW Version	2407346_045648
Temperature and Humidity	177 degF / 25 degC 29.7 %RH
Voltage	110V
Test End Date and Time	8/5/2019 9:31

Item	Value	
Mode and Setting	Driver Version	6.7.0
	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: A4			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Colour	Simplex	9.56	57.32
	Duplex	14.00	58.47
B&W	Simplex	9.31	57.28
	Duplex	13.20	58.48

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

Detailed Report: A4						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)		
Colour Mode	Simplex - Adobe Reader	9.38	25.59 (1 set) 49.61 (9 sets) 50.51 (61 sets)	50.51 (61 sets)	57.31	
	Simplex - Word	9.94	24.15 (1 set) 49.69 (9 sets)		57.34	
	Simplex - Excel	9.36	25.65 (1 set) 49.98 (9 sets)		57.33	
	Simplex - Average	9.56	25.13 (1 set) 49.76 (9 sets)	50.51 (61 sets)	57.32	
	Duplex - Adobe Reader	13.66	17.56 (1 set) 45.30 (9 sets)		58.48	
	Duplex - Word	14.50	16.54 (1 set) 43.84 (9 sets)		58.48	
	Duplex - Excel	13.82	17.36 (1 set) 45.40 (9 sets)		58.46	
	Duplex - Average	14.0	17.15 (1 set) 44.84 (9 sets)		58.47	
B&W mode (optional for color device)	Simplex - Adobe Reader	8.86	27.10 (1 set) 51.04 (9 sets) 48.97 (61 sets)	48.97 (61 sets)	57.27	
	Simplex - Word	9.41	25.51 (1 set) 50.05 (9 sets)		57.29	
	Simplex - Excel	9.66	24.85 (1 set) 50.53 (9 sets)		57.30	
	Simplex - Average	9.3	25.82 (1 set) 50.54 (9 sets)	49.0 (61 sets)	57.28	
	Duplex - Adobe Reader	12.81	18.72 (1 set) 46.60 (9 sets)		58.46	
	Duplex - Word	13.57	17.68 (1 set) 45.86 (9 sets)		58.50	
	Duplex - Excel	13.20	18.18 (1 set) 45.92 (9 sets)		58.48	
	Duplex - Average	13.2	18.19 (1 set) 46.12 (9 sets)		58.48	

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

Test System Parameters	
Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVDWRV GUD1N
I/O Subsystem	Builton
USB Subsystem	USB 2.0/3.0
	TCPIP TCP/IP 10/100
Operating System	Win 10 Enterprise 64 Bit (10240)
Printing Applications	Microsoft Office Word 2016
	Acrobat Reader DC
	Microsoft Office Excel 2016
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - Tabloid

HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN

Printing device and settings	
Test Start Date and Time	4/24/2019 20:12
Tester	TOW
Machine name/model	HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN
Colour or B&W	Colour
FW Version	2407346_045648
Temperature and Humidity	77 degF / 25 degC 29.7 %RH
Voltage	110V
Test End Date and Time	8/5/2019 9:31

Item	Value	
Mode and Setting	Driver Version	6.7.0
	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			
Color	Office Category Test for Color Device	FSOT (seconds)	ESAT (ipm)
Color	Simplex	9.81	26.32
	Duplex	13.81	28.06
B&W	Simplex	14.38	26.55
	Duplex	17.84	27.09

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	14.63	16.41 (1 set)	23.32 (5 sets)	23.71 (28 sets)	26.27
	Simplex - Word	15.66	15.32 (1 set)	23.41 (5 sets)		26.42
	Simplex - Excel	14.60	16.44 (1 set)	23.48 (5 sets)		26.27
	Simplex - Average	14.97	16.05 (1 set)	23.40 (5 sets)	23.71 (28 sets)	26.32
	Duplex - Adobe Reader	21.91	10.94 (1 set)	20.34 (5 sets)		27.08
	Duplex - Word	19.03	12.60 (1 set)	21.50 (5 sets)		27.10
	Duplex - Excel	18.12	13.24 (1 set)	23.26 (5 sets)		30.00
	Duplex - Average	19.69	12.26 (1 set)	21.70 (5 sets)		28.06
B&W mode (optional for color device)	Simplex - Adobe Reader	14.09	17.03 (1 set)	24.23 (5 sets)	24.52 (28 sets)	27.14
	Simplex - Word	14.88	16.13 (1 set)	23.33 (5 sets)		26.26
	Simplex - Excel	14.15	16.98 (1 set)	23.59 (5 sets)		26.26
	Simplex - Average	14.38	16.70 (1 set)	23.71 (5 sets)	24.52 (28 sets)	26.55
	Duplex - Adobe Reader	17.40	13.78 (1 set)	21.92 (5 sets)		27.08
	Duplex - Word	18.11	13.24 (1 set)	21.80 (5 sets)		27.10
	Duplex - Excel	18.00	13.32 (1 set)	21.88 (5 sets)		27.10
	Duplex - Average	17.84	13.44 (1 set)	21.86 (5 sets)		27.09

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

Test System Parameters	
Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVDWRV GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
	TCPIIP TCP/IP 10/100
Operating System	Win 10 Enterprise 64 Bit (10240)
Printing Applications	Microsoft Office Word 2016
	Acrobat Reader DC
	Microsoft Office Excel 2016
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A3

HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN

Printing device and settings	
Test Start Date and Time	4/24/2019 20:12
Tester	TOW
Machine name/model	HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN
Colour or B&W	Colour
FW Version	2407346_045648
Temperature and Humidity	77 degF / 25 degC 29.7 %RH
Voltage	110V
Test End Date and Time	8/5/2019 9:31

Item	Value	
Mode and Setting	Driver Version	6.7.0
	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)
	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	9.81	26.26
	Duplex	13.81	27.10
B&W	Simplex	14.42	26.26
	Duplex	17.85	27.14

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://w.w.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)				
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec	
Color Mode	Simplex - Adobe Reader	14.46	16.60 (1 set)	21.72 (5 sets)	24.56 (28 sets)	26.27
	Simplex - Word	15.03	15.96 (1 set)	22.94 (5 sets)		26.26
	Simplex - Excel	14.33	16.74 (1 set)	23.50 (5 sets)		26.27
	Simplex - Average	14.61	16.43 (1 set)	22.72 (5 sets)	24.56 (28 sets)	26.26
	Duplex - Adobe Reader	21.91	10.94 (1 set)	20.44 (5 sets)		27.10
	Duplex - Word	18.40	13.02 (1 set)	21.02 (5 sets)		27.10
	Duplex - Excel	17.87	13.42 (1 set)	21.14 (5 sets)		27.10
	Duplex - Average	19.40	12.46 (1 set)	20.86 (5 sets)		27.10
B&W mode (optional for color device)	Simplex - Adobe Reader	14.47	16.59 (1 set)	23.66 (5 sets)	24.12 (28 sets)	26.26
	Simplex - Word	14.55	16.49 (1 set)	23.13 (5 sets)		26.27
	Simplex - Excel	14.24	16.85 (1 set)	23.24 (5 sets)		26.26
	Simplex - Average	14.42	16.64 (1 set)	23.34 (5 sets)	24.12 (28 sets)	26.26
	Duplex - Adobe Reader	17.49	13.70 (1 set)	21.92 (5 sets)		27.14
	Duplex - Word	17.91	13.40 (1 set)	21.84 (5 sets)		27.14
	Duplex - Excel	18.14	13.24 (1 set)	21.82 (5 sets)		27.14
	Duplex - Average	17.85	13.44 (1 set)	21.86 (5 sets)		27.14

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://w.w.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters

Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVDWRV GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCPIP	TCPIP 10/1000
Operating System	Win 10 Enterprise 64 Bit (10240)
Printing Applications	Microsoft Office Word 2016
	Acrobat Reader DC
	Microsoft Office Excel 2016
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test
 HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN

Printing device and settings	
Test Start Date and Time	4/24/2019 20:12
Tester	TOW
Machine name/model	HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN
Colour or B&W	Colour
FW Version	2407346_045648
Temperature and Humidity	77 degF / 25 degC 29.7 %rH
Voltage	110V
Test End Date and Time	8/5/2019 9:31

Item	Value	
Mode and Setting	Driver Version	6.7.0
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	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	78%	63%
A5, Portrait Feed, Simplex, Colour	Simplex		
Legal, Simplex, Colour	Simplex	67%	54%
Legal, Duplex, Colour	Duplex	58%	56%
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	77%	63%
A5, Portrait Feed, Simplex, B/W	Simplex		
Legal, Simplex, B/W	Simplex	68%	51%
Legal, Duplex, B/W	Duplex	58%	56%
A4, 1200 dpi, Simplex, B/W	Simplex		
Letter, 1200 dpi, Simplex, B/W	Simplex		
A4, General Office, Simplex, B/W	Simplex		
Letter, General Office, Simplex, B/W	Simplex		

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

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

Printing Modes Feature Adobe Reader - Office test file (8-page)	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	13.68	56.43	17.62	35.7	78%	63%
A5, Portrait Feed, Simplex, Colour	13.68	56.43				
Legal, Simplex, Colour	13.91	55.68	20.82	30.2	67%	54%
Legal, Duplex, Colour	13.91	55.68	24.28	31.7	58%	56%
A4, 1200 dpi, Simplex, Colour	13.68	56.43				
Letter, 1200 dpi, Simplex, Colour	13.91	55.68				
A4, General Office, Simplex, Colour	13.68	56.43				
Letter, General Office, Simplex, Colour	13.91	55.68				
A5, Landscape Feed, Simplex, B/W	13.22	56.44	17.22	35.7	77%	63%
A5, Portrait Feed, Simplex, B/W	13.22	56.44				
Legal, Simplex, B/W	13.51	55.79	20.07	29.0	68%	51%
Legal, Duplex, B/W	13.51	55.79	23.39	31.7	58%	56%
A4, 1200 dpi, Simplex, B/W	13.22	56.44				
Letter, 1200 dpi, Simplex, B/W	13.51	55.79				
A4, General Office, Simplex, B/W	13.22	56.44				
Letter, General Office, Simplex, B/W	13.51	55.79				

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

Test System Parameters

Item	Value	
Test System	Computer	HP Z240 SFF Workstation
	Processor	Intel Core i7 -6770, 3.4 GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	8 GB
	Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	IO Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
I/O	TCP/IP 10/1000	
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Office Word 2016 Acrobat Reader DC
	Print Driver	Microsoft Office Excel 2016 Not Specified
	Test files and location	Office category files, hard drive

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

Full Detailed Test Report - LETTER

HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN

Printing device and settings	
Test Start Date and Time	4/24/2019 17:16
Tester	TQW
Machine name/model	HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN
Colour or B&W	Colour
FW Version	2407346_045648
Configuration (options)	Default
Controller	7.134
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	77 degF / 25 degC 29.7 %rH
Voltage	110V
Test End Date and Time	5/1/2019 22:50

Item	Value
Mode and Setting	
PDL and driver version	6.7.0
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	6.15
	Duplex	
B&W	Simplex	5.76
	Duplex	

Notes

- All printing device and driver settings were default mode.
- For the B/W results, the print driver was set to "print in B/W".
- For more information see <http://www.hp.com/go/printerclaims>.
- Port monitor not configured to follow device if the IP address changes.
- 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	6.11	6.15	6.17	6.15	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.60		63 Minutes
	Recovery Time			7.4		
	FPOT from Off - Simplex			144.87		
	Warm-up Time			138.70		
B&W Mode	FPOT from Ready - Simplex	5.73	6.11	5.43	5.76	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.97		63 Minutes
	Recovery Time			7.5		
	FPOT from Off - Simplex			144.62		
	Warm-up Time			139.19		

Notes

- All printing device and driver settings were default mode.
- For the B/W results, the print driver was set to "print in B/W".
- For more information see <http://www.hp.com/go/printerclaims>.
- Port monitor not configured to follow device if the IP address changes.
- Page counts were collected after completion of the tests.
- 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	13.60	13.47	13.72	N/A	Adobe Reader	63 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.21	10.16	10.25	N/A	Adobe Reader	15 Minutes
	FPOT from Sleep	12.97	12.75	13.18	N/A	Adobe Reader	63 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.25	9.94	10.56	N/A	Adobe Reader	15 Minutes

Notes

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

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

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

Full Detailed Test Report - A4

HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN

Printing device and settings	
Test Start Date and Time	4/24/2019 17:16
Tester	TQW
Machine name/model	HP Color LaserJet M856 Series & Color LaserJet Managed E8055DN
Colour or B&W	Colour
FW Version	2407346_045648
Configuration (options)	Default
Controller	7.134
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	77 degF / 25 degC 29.7 %rH
Voltage	110V
Test End Date and Time	5/1/2019 22:50

Item	Value
Mode and Setting	
PDL and driver version	6.7.0
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	6.07
	Duplex	
B&W	Simplex	5.73
	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	6.13	6.15	5.93	6.07	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			14.36		63 Minutes
	Recovery Time			8.4		
	FPOT from Off - Simplex			146.67		
	Warm-up Time			140.74		
B&W Mode	FPOT from Ready - Simplex	5.86	6.01	5.31	5.73	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.33		63 Minutes
	Recovery Time			8.0		
	FPOT from Off - Simplex			145.55		
	Warm-up Time			140.24		

- 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	14.36	14.17	14.55	N/A	Adobe Reader	63 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.70	10.72	10.68	N/A	Adobe Reader	15 Minutes
B&W Mode	FPOT from Sleep	13.33	13.00	13.66	N/A	Adobe Reader	63 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.48	10.65	10.31	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 Z240 SFF Workstation
	Processor	Intel Core i7 -6770, 3.4 GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	8 GB
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	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Win 10 Enterprise 64 Bit (10240)
	Printing Applications	Microsoft Word 2016
		Microsoft Excel 2016
		Adobe Reader DC