

ISO/IEC 24734 Printing Productivity Report: Office Category  
 ISO/IEC 29183 Copying Productivity Report  
 ISO/IEC 17629 First Page Out Time Report

Full Detailed Test Reports  
 HP OfficeJetPro 8020 All-in-One series

Printing device and test settings	
Test Start Date and Time	1/20/18 12:00:00 AM
Tester	Lj/less
Machine product number	16R57A
Machine name/model	HP OfficeJetPro 8020 All-in-One
FW Version	1843B
Colour or B&W	Color
Temperature and humidity	22.5 degrees C, 68%
Voltage	240 volts AC
Test End Date and Time	1/21/18 12:00:00 AM

Modes and Settings	Item	Value
	Driver version	Full WebStart-49.1.4417
	Media / Quality Setting	A4 Normal
	Simplex B&W settings	black ink only
	Duplex B&W settings	black ink only
	Setting N set count	Application
	Collate function	On
Paper Path	Paper sending direction	Default
	Paper size setting	Default
	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
Paper	Output destination	to postnet
	Duplexing ADP Unit	No
	Duplexing Print Line	No
	Paper Manufacturer	Print: HP Copy: HP
	Weight	Print: 80 gsm Copy: 80 gsm
	Size	Print: A4 Copy: A4
	Paper type/name	Print: HP Everyday Paper Copy: HP Everyday Paper

Summary Reports		
ISO/IEC 24734	FSOT (seconds)	ESAT (gpm)
Color	Single Sided	37
	Two Sided	47
B&W	Single Sided	24
	Two Sided	30

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, black ink only  
 3) For Duplex B&W results, black ink only  
 4) Scale content for A4 for 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183		
Color	FCOT (seconds)	sESAT (gpm)
B&W	12	13

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629		
Color	Simplex	FPOT From Ready (sec)
B&W	Simplex	13

Notes: 1) For B&W results, black ink only

Full Reports						
ISO/IEC 24734		Office Category	FSOT (sec)	EFTP (gpm)		sESAT (gpm)
Color	Single Sided	PDF (# sets)	44.00	5.00	5.00	7.00
		Word (# sets)	27.00	1	3	10
Excel (# sets)	30.00	1	3	10	7.60	
Average	37	1	3	10	10	
Two Sided	PDF (# sets)	54.00	4.00	5.00	5.80	
	Word (# sets)	34.00	1	3	9.60	
Excel (# sets)	52.00	1	3	5.60		
Average	47	1	3	7		
B&W	Single Sided	PDF (# sets)	28.00	9.00	14.00	18.40
		Word (# sets)	21.00	1	3	24.30
Excel (# sets)	23.00	1	3	17.80		
Average	24	1	3	20		
Two Sided	PDF (# sets)	38.00	1	3	9.60	
	Word (# sets)	30.00	1	3	12.20	
Excel (# sets)	35.00	1	3	9.40		
Average	35	1	3	10		

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, black ink only  
 3) For Duplex B&W results, black ink only  
 4) Scale content for A4 for 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183						
Color	Page 1 (# copies)	Page 2 (# copies)	Page 3 (# copies)	Page 4 (# copies)	Average (# copies)	FCOT (sec)
						16.60
Black	Page 1 (# copies)	Page 2 (# copies)	Page 3 (# copies)	Page 4 (# copies)	Average (# copies)	FCOT (sec)
						10.70

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629			
Color Simplex	FPOT from Ready (sec)	FPOT from Sleep (sec)	Recovery Time (sec)
	PDF	17.30	4.00
	Word	13.40	4.00
	Excel	15.60	4.00
	Average	17.00	4.00
	Delay Time	50 sec	120 min
B&W Simplex	PDF	13.00	4.00
	Word	12.50	4.00
	Excel	11.80	4.00
	Average	13.00	4.00
	Delay Time	50 sec	120 min

Notes: 1) For B&W results, black ink only  
 2) FPOT from Sleep Average = FPOT from Ready Average + Recovery Time  
 3) Scale content for A4 for 8.5x11 paper sizes set to off for Word and Excel

Test system parameters	
Item	Value
Computer	HP Envoy 15 Notebook
Processor	Intel Core i5-4210U 1.70GHz
System Disk Set	Intel Celeron
System Board	228A
System Memory	8GB 1600MHz DDR3L
Hard Drive subsystem	HGST 200GB of storage
Video subsystem	Intel HD graphics
Optical Drive	HP DVDRW G8-B0N
IO subsystem	Built in
USB subsystem	USB 2.0/3.0
Printer Connection	USB
Operating System	Microsoft Windows 10 Enterprise
Printing Applications	Microsoft Office Word 2016 MSO 64-bit Microsoft Office Excel 2016 64-bit Apple iWork Reader Doc Version 2018.099.20044
Test Files and location	Office Category files, hard drive