

Lisbon (LPPT) to Barajas (LEMD)

Cruising altitude 32,000 ft, **departure to top of climb** 78 NM, **start of descent to destination** 125 NM.

Arrive using STAR **TLD2C** at runway .

Distance 310 NM, **time** 0 h 51 m.

Flight Plan File: /home/luc/TPshare/FlightPlan/LPPTLEMD_MFS_26Nov23.pln

Aircraft Performance FlyByWire A32NX - A20N

Aircraft

Estimated range with reserve: 4,659 NM, 10 h 14 m

Minimum runway: Hard surface, 5,000 ft

Flight Plan

Distance and Time: 310 NM, 0 h 51 m

Average Ground Speed: 367 kts

True Airspeed at Cruise: 455 kts

Mach at cruise: 0.78

Average wind total (NOAA): 287°T, 31 kts
▲ 23 kts tailwind

Average wind at cruise (NOAA): 278°T, 37 kts
▲ 34 kts tailwind

Fuel Plan

Fuel Type: Jetfuel

Usable Fuel: 46,899 lbs, 7,000 gal

Trip Fuel: 2,527 lbs, 377 gal (1,146 kg, 1,428 l)

Block Fuel: 6,307 lbs, 941 gal (2,861 kg, 3,564 l)
13 % of usable Fuel

Fuel at Destination: 3,560 lbs, 531 gal

Reserve Fuel: 2,205 lbs, 329 gal

Taxi Fuel: 220 lbs, 33 gal

Extra Fuel: 1,102 lbs, 165 gal

Contingency Fuel: 10 %, 253 lbs, 38 gal

Climb and Descent

Climb: 2,593 fpm at 364 kts, 3.8° Flight Path Angle

Time to Climb: 0 h 12 m

Descent: 1,238 fpm at 278 kts, -2.4° Flight Path Angle

Descent Rule of Thumb: 4.0 NM per 1,000 ft

Remarks

A320Neo - A32NX by FBW

Performance File: /home/luc/Documents/Little Navmap Files/Aircraft Performance/Airbus A32NX FlyByWire.Inmperf

Flight Plan

Ident	Region	Name	Altitude ft	Procedure	Airway or Procedure	Restriction ft/kts/angle	Type	Freq. MHz/kHz/Cha.	Range NM	Course °M	Course °T	Distance NM	Remaining NM	Leg Time hh:mm	ETA hh:mm	Fuel Rem. lbs	Fuel Rem. gal	Wind °M/kts	Head - or Tailwind kts	Leg Safe Alt. ft	Latitude	Longitude	Related Ident / Freq. / Dist. / Bearing	Remarks
LPPT	LP	Lisbon	338	Departure								0.0	310		0:00	6,087	908				38° 46' 27.01" N	9° 8' 3.01" W		
PORLI	LE		32,000							62	61	94	216	0:14	0:14	4,910	733	275 / 36	▲ 31	2,500	39° 31' 44.00" N	7° 21' 59.00" W		
RODAP	LE		32,000							67	66	15.3	201	0:02	0:16	4,786	714	277 / 36	▲ 31	3,000	39° 37' 56.70" N	7° 3' 55.10" W		
OGE RO	LE		32,000							73	71	32	169	0:04	0:20	4,523	675	280 / 37	▲ 33	3,500	39° 48' 6.00" N	6° 24' 1.90" W		
ROLDO	LE		32,000		UZ409 / J	24,500-46,000				84	83	40	129	0:05	0:25	4,202	627	284 / 38	▲ 36	3,500	39° 52' 32.99" N	5° 32' 40.90" W		
RUKE R	LE		22,044		UZ409					84	84	43	86	0:08	0:33	3,989	595	293 / 37	▲ 32	3,000	39° 56' 40.00" N	4° 36' 40.00" W		

Ident	Region	Name	Altitude ft	Procedure	Airway or Procedure	Restriction ft/kts/angle	Type	Freq. MHz/kHz/Cha.	Range NM	Course °M	Course °T	Distance NM	Remaining NM	Leg Time hh:mm	ETA hh:mm	Fuel Rem. lbs	Fuel Rem. gal	Wind °M/kts	Head - or Tailwind kts	Leg Safe Alt. ft	Latitude	Longitude	Related Ident / Freq. / Dist. / Bearing	Remarks
																					57.70° N	1° 00' W		
TLD	LE	Toledo	18,871	STAR TLD2C	Initial fix	B 21,000	VOR DME (H)	113.20	130	85	84	12.6	73	0:02	0:35	3,929	586	295 / 36	▲ 31	3,000	39° 58' 10.00° N	4° 20' 14.90° W		
D130 F	LE		17,393	STAR TLD2C	Track to fix	B 250				129	129	5.9	67	0:01	0:37	3,902	582	296 / 36	▲ 35	3,000	39° 54' 26.89° N	4° 14' 17.38° W		
D130 P	LE		14,887	STAR TLD2C	Track to fix					129	129	10.0	57	0:02	0:38	3,856	575	300 / 37	▲ 36	3,500	39° 48' 8.03° N	4° 4' 12.90° W		
			13,566	STAR TLD2C	Heading to intercept					92	92	5.3	52	0:01	0:39	3,831	572	302 / 37	▲ 32	3,500	39° 47' 56.72° N	3° 57' 22.10° W		
BUREX	LE		13,301	STAR TLD2C	Course to fix	B 14,000, B 220				47	47	1.1	51	0:00	0:40	3,826	571	302 / 37	▲ 9	3,500	39° 48' 39.80° N	3° 56' 21.50° W	PDT, 116.95 MHz, 38	

Ident	Region	Name	Altitude ft	Procedure	Airway or Procedure	Restriction ft/kts/angle	Type	Freq. MHz/kHz/Cha.	Range NM	Course °M	Course °T	Distance NM	Remaining NM	Leg Time hh:mm	ETA hh:mm	Fuel Rem. lbs	Fuel Rem. gal	Wind °M/kts	Head - or Tailwind kts	Leg Safe Alt. ft	Latitude	Longitude	Related Ident / Freq. / Dist. / Bearing	Remarks
																							NM, R227	
D227R	LE		8,287	STAR TLD2C	Track to fix					45	46	20.0	31	0:04	0:44	3,723	556	306 / 32	▲ 5	3,500	40° 2' 38.46" N	3° 37' 44.48" W		
TOBEK	LE		5,000	STAR TLD2C	Track to fix	5,000, B 220				45	46	13.1	17.7	0:03	0:47	3,656	546	305 / 21	▲ 4	3,500	40° 11' 46.70" N	3° 25' 28.00" W		
LEMD	LE	Barajas	1,949	Destination						339	339	17.7	0.0	0:04	0:51	3,560	531			3,500	40° 28' 20.00" N	3° 33' 38.96" W		

Departure Airport

Lisbon (LPPT) ★★☆☆

Region:	LP
City:	Lisbon
Elevation:	338 ft
Magnetic declination:	1.7° West
Transition altitude:	4,000 ft
Sunrise and sunset:	7:03 AM, 5:45 PM UTC (civil twilight, real date)
Coordinates:	38° 46' 27.01" N 9° 8' 3.01" W

Facilities

ALS, Aprons, Fuel, ILS, Parking, Procedures, Taxiways, Tower Object, VASI

Runways

Hard, Lighted

Weather

NOAA Station: LPPT 280830Z 22004KT 9999 FEW002 SCT018 15/15 Q1016 **(VFR - Map)**

Prefers runway: 20

Longest Runway

Length: 12,482 ft

Width: 148 ft

Heading: 24°M, 204°M

Surface: Bituminous

COM Frequencies

Tower: 118.105 MHz

ATIS: 121.955 MHz

Parking

Gates: 15

GA Ramp:	77
Largest Ramp:	Large
Largest Gate:	Gate Medium

Departure Airport Runways

Elevation: 338 ft

Runway 02, 20

Size:	12,482 x 148 ft
Surface:	Bituminous
Pattern Altitude:	1,000 ft
Edge Lights:	High
Center Lights:	Low
Runway Markings:	Edges, Threshold, Fixed Distance, Touchdown, Dashes, Ident, Precision, Alternate Touchdown

Departure Airport COM Frequencies

Type	Frequency	Name
Approach Control	119.105 MHz	Lisboa
Approach Control	119.555 MHz	Lisboa
Approach Control	120.355 MHz	Lisboa
Approach Control	125.130 MHz	Lisboa
ATIS	121.955 MHz	LPPT
ATIS	124.155 MHz	LPPT
Clearance Delivery	118.505 MHz	Lisboa
Clearance Delivery	118.955 MHz	Lisboa
Ground Control	118.505 MHz	Lisboa
Ground Control	121.755 MHz	Lisboa
Tower, Air Traffic Control	118.105 MHz	Lisboa
Tower, Air Traffic Control	118.505 MHz	Lisboa
Tower, Air Traffic Control	119.555 MHz	Lisboa
Tower, Air Traffic Control	120.355 MHz	Lisboa
Tower, Air Traffic Control	123.980 MHz	Lisboa

Data Source

Simulator

Departure Airport Weather

Transition: Altitude 4,000 ft

NOAA Station Weather

Time:	11/28/23 8:30 AM UTC
Flight Rules:	VFR - Map
Wind:	222°M, 4 kts
Temperature:	15°C, 59°F
Dewpoint:	15°C, 59°F
Pressure:	1,016 hPa, 30.00 inHg
Density Altitude:	325 ft
Visibility:	Greater than 5.4 NM

Clouds

Few	200 ft
Scattered	1,800 ft

Best runway for wind

Runway	Surface	Length	Headwind	Crosswind
20	Hard	12,482 ft	4 kts ▼	1 kts

Destination Airport

Barajas (LEMD) ★★☆☆-

Region:	LE
City:	Madrid
Elevation:	1,949 ft
Magnetic declination:	0°
Transition altitude:	13,000 ft
Sunrise and sunset:	6:44 AM, 5:19 PM UTC (civil twilight, real date)
Coordinates:	40° 28' 20.00" N 3° 33' 38.96" W

Facilities

ALS, Aprons, Fuel, ILS, Parking, Procedures, Taxiways, Tower Object, VASI

Runways

Hard, Lighted

Weather

NOAA Station: LEMD 280830Z 21005G15KT 170V250 6000 SCT004 BKN005 08/08 Q1015 NOSIG **(LIFR - Map)**

Prefers runways: 18R, 18L

Longest Runway

Length: 14,216 ft

Width: 197 ft

Heading: 180°M, 360°M

Surface: Asphalt

COM Frequencies

Tower: 118.080 MHz

ATIS: 118.255 MHz

Parking

Gates: 103

GA Ramp:	281
Largest Ramp:	Large
Largest Gate:	Gate Heavy

Destination Airport Runways

Elevation: 1,949 ft

Runway 14R, 32L

Size:	13,494 x 171 ft
Surface:	Asphalt
Pattern Altitude:	1,000 ft
Edge Lights:	High
Center Lights:	High
Runway Markings:	Edges, Fixed Distance, Touchdown, Dashes, Ident, Precision, Alternate Touchdown

Runway 18R, 36L

Size:	14,216 x 197 ft
Surface:	Asphalt
Pattern Altitude:	1,000 ft
Edge Lights:	High
Center Lights:	Low
Runway Markings:	Edges, Threshold, Fixed Distance, Touchdown, Dashes, Ident, Precision, Alternate Touchdown

Runway 18L, 36R

Size:	11,651 x 192 ft
Surface:	Asphalt
Pattern Altitude:	1,000 ft
Edge Lights:	High
Center Lights:	Low
Runway Markings:	Edges, Threshold, Fixed Distance, Touchdown, Dashes, Ident, Precision, Alternate Touchdown

Runway 32R, 14L

Size:	11,682 x 179 ft
Surface:	Asphalt
Pattern Altitude:	1,000 ft

Edge Lights:	High
Center Lights:	Low
Runway Markings:	Edges, Threshold, Fixed Distance, Touchdown, Dashes, Ident, Precision, Alternate Touchdown

Destination Airport COM Frequencies

Type	Frequency	Name
Approach Control	118.400 MHz	Madrid
Approach Control	118.755 MHz	Madrid
Approach Control	124.030 MHz	Madrid
Approach Control	124.230 MHz	Madrid
Approach Control	127.100 MHz	Madrid
Approach Control	127.505 MHz	Madrid
Approach Control	128.700 MHz	Madrid
Approach Control	130.800 MHz	Madrid
Approach Control	131.175 MHz	Madrid
Approach Control	134.030 MHz	Madrid
Approach Control	134.955 MHz	Madrid
Approach Control	136.105 MHz	Madrid
ATIS	118.255 MHz	LEMD
ATIS	130.855 MHz	LEMD
Clearance Delivery	130.080 MHz	Barajas
Clearance Delivery	130.355 MHz	Barajas
Ground Control	121.630 MHz	Barajas
Ground Control	121.705 MHz	Barajas
Ground Control	121.755 MHz	Barajas
Ground Control	121.850 MHz	Barajas
Ground Control	121.980 MHz	Barajas
Ground Control	123.005 MHz	Barajas
Ground Control	123.155 MHz	Barajas
Ground Control	123.255 MHz	Barajas
Ground Control	123.480 MHz	Barajas
Tower, Air Traffic Control	118.080 MHz	Barajas
Tower, Air Traffic Control	118.155 MHz	Barajas

Tower, Air Traffic Control 118.680 MHz Barajas

Tower, Air Traffic Control 118.980 MHz Barajas

Tower, Air Traffic Control 119.500 MHz Barajas

Tower, Air Traffic Control 120.155 MHz Barajas

Tower, Air Traffic Control 120.655 MHz Barajas

Tower, Air Traffic Control 122.980 MHz Barajas

Tower, Air Traffic Control 123.330 MHz Barajas

Tower, Air Traffic Control 130.255 MHz Barajas

Data Source

Simulator

Destination Airport Weather

Transition: Altitude 13,000 ft

NOAA Station Weather

Time:	11/28/23 8:30 AM UTC
Flight Rules:	LIFR - Map
Wind:	210°M, 5 kts, variable 170°M to 250°M
Wind gusts:	15 kts
Temperature:	8°C, 46°F
Dewpoint:	8°C, 46°F
Pressure:	1,015 hPa, 29.97 inHg
Density Altitude:	1,515 ft
Visibility:	3.2 NM

Clouds

Scattered 400 ft

Broken 500 ft

Best runways for wind

Runways	Surface	Length	Headwind	Crosswind
18R, 18L	Hard	11,651-14,216 ft	4 kts ▼	3 kts
14R, 14L	Hard	11,682-13,494 ft	2 kts ▼	5 kts

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