

CARTA DE SALIDA NORMALIZADA
VUELO POR INSTRUMENTOS (SID)-OACI

TA 6000 ft

VAR 3°35.0'W (2025)

APP 129.300 MHz
TWR 120.700 MHz

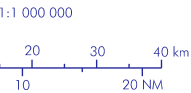
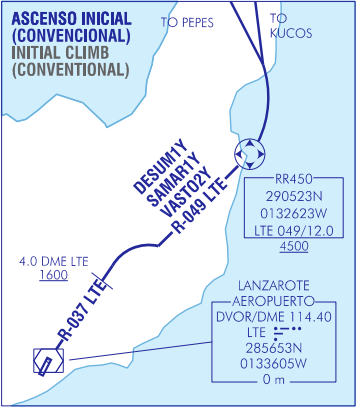
LANZAROTE/César Manrique Lanzarote
RNAV RWY 03

DESUM1Y SAMAR1Y VASTO2Y

RNAV1
- DESUM1Y: (DME/DME/IRU) REQUERIDO // REQUIRED;
- DME GDV DEBE ESTAR OPERATIVO PARA // MUST BE OPERATIONAL FOR (DME/DME/IRU).
- SAMAR1Y, VASTO2Y: (DME/DME) REQUERIDO // REQUIRED;
- VASTO2Y: DME GDV DEBE ESTAR OPERATIVO PARA // MUST BE OPERATIONAL FOR (DME/DME).

NOTAS:
- LOS DME ASOCIADOS A LOS ILS NO DEBERÁN UTILIZARSE PARA ESTAS SALIDAS RNAV1.
- NOTAS, RESTRICCIONES, OBSTÁCULOS CERCANOS QUE VULNERAN LAS OIS: VER DESCRIPCIÓN TEXTUAL.

NOTES:
- DME ASSOCIATED WITH ILS MAY NOT BE USED FOR THESE DEPARTURES RNAV1.
- NOTES, RESTRICTIONS, CLOSE-IN OBSTACLES WHICH PENETRATE THE OIS: SEE TEXTUAL DESCRIPTION.



PBN BOX

CHANGES

WAYPOINTS COORDINATES

WPT	COORD
DESUM	302323.8N 0131906.8W
EDUPI	295602.0N 0132333.0W
KUCOS	292615.0N 0132819.0W
MANZU	300823.0N 0133216.0W
PEPES	303704.0N 0141557.0W
RR450	290522.9N 0132622.9W
SAMAR	305359.0N 0142456.0W
VASTO	303034.0N 0133422.0W

DEPARTURES CRITICAL DME

INSTALACIÓN (ID) FACILITY (ID)	FREQ/CH	COORD
GRAN CANARIA (GDV)	112.90 MHz CH 76X	280437.5038N 0152544.3622W

STANDARD INSTRUMENT DEPARTURES (SID)

RUNWAY 03

NOTES APPLICABLE TO ALL SID:

- RNAV1.
- (DME/DME) required.
- Chart included in the CANARIAS TMA speed adjustment area:
MAX IAS 250 KT at FL100 or BLW, EXC MIL FLT on operational or air defense missions or when the operational characteristics do not allow for it.
- Maximum speed 250 kt until reaching FL100.
- The RNAV (DME/DME) procedure will start once the initial conventional climb is completed at the waypoint RR450.
- Minimum climb gradient due to operational reasons.

INITAL CONVENTIONAL CLIMBING

Climb on R-037 LTE direct to cross 4.0 DME LTE at 1600 ft or above. Turn to right to intercept and follow R-049 LTE to RR450 at 4500 ft or above.

Minimum climb gradient of 7.0% up to 4500 ft.

INITIAL ATC CLEARANCE: Climb to FL120 and await further clearance.

PROCEDURE TABULAR DESCRIPTION

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
DESUM1Y (DME/DME): DME GDV critical.											
001	IF	RR450	Y	–	+3.6	–	–	+4500	–	–	RNAV 1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
002	DF	KUCOS	–	–	+3.6	–	–	+FL080	–	–	RNAV 1
003	TF	EDUPI	–	12 (007.9)	+3.6	30	–	+FL130	–	–	RNAV 1
004	TF	DESUM	Y	12 (008.0)	+3.6	27.6	–	+FL160	–	–	RNAV 1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
SAMAR1Y Minimun climb gradient of 4.1% up to SAMAR.											
001	IF	RR450	Y	–	+3.6	–	–	+4500	–	–	RNAV1
002	DF	PEPES	Y	–	+3.6	–	–	+FL260	–	–	RNAV1
003	TF	SAMAR	Y	339 (335.4)	+3.6	18.6	–	+FL340	–	–	RNAV1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
VASTO2Y (DME/DME): DME GDV critical.											
001	IF	RR450	Y	–	+3.6	–	–	+4500	–	–	RNAV1
002	DF	KUCOS	–	–	+3.6	–	–	+FL080	–	–	RNAV1
003	TF	MANZU	–	359 (355.3)	+3.6	42.2	–	+FL120	–	–	RNAV1
004	TF	VASTO	Y	359 (355.3)	+3.6	22.2	–	+FL160	–	–	RNAV1

CLOSE-IN OBSTACLES

OBS	RWY	LAT	LON	HGT (ft)	ELEV (ft)
TREE	03	285723.7N	0133601.4W	18	87
TREE	03	285723.9N	0133558.5W	37	93
BOARD	03	285727.3N	0133600.1W	40	107
FOCUS	03	285725.1N	0133600.9W	19	89
OBSTACLE LIGHT	03	285723.5N	0133602.2W	11	73
BUILDING	03	285725.3N	0133601.3W	22	86
BUILDING	03	285727.7N	0133559.5W	37	104
LAMPPOST	03	285726.6N	0133600.3W	27	92
LAMPPOST	03	285726.8N	0133559.2W	28	93
LAMPPOST	03	285725.8N	0133559.1W	28	88
LAMPPOST	03	285726.3N	0133559.2W	28	90
ELECTRICITY PYLON	03	285733.4N	0133559.1W	42	123
BUILDING	03	285727.5N	0133559.1W	26	94
BUILDING	03	285731.6N	0133559.2W	39	107
SENAL VERTICAL	03	285723.9N	0133600.2W	17	75
LAMPPOST	03	285726.0N	0133558.1W	28	86
LAMPPOST	03	285726.5N	0133558.1W	28	88
ROAD	03	285724.5N	0133600.5W	16	76
LAMPPOST	03	285727.0N	0133558.2W	28	90
CHIMNEY ON BUILDING	03	285731.5N	0133559.2W	36	104
CRANE	03	285735.1N	0133540.7W	83	147
BOARD	03	285727.7N	0133558.3W	26	90
TREE	03	285723.9N	0133559.0W	19	75
BUILDING	03	285730.9N	0133558.6W	31	99
BUILDING	03	285727.7N	0133558.1W	26	88

OBS	RWY	LAT	LON	HGT (ft)	ELEV (ft)
TERRAIN	03	285756.0N	0133546.0W	0	192
TERRAIN	03	285737.6N	0133555.5W	0	117
TREE	03	285756.9N	0133523.9W	48	206
TREE	03	285743.4N	0133519.6W	40	171
OBSTACLE LIGHT	03	285723.5N	0133600.5W	12	70
CHIMNEY ON BUILDING	03	285751.4N	0133513.6W	23	191
POST	03	285755.0N	0133515.8W	22	197
TREE	03	285752.3N	0133521.3W	35	183
POST	03	285754.9N	0133514.6W	23	197
POST	03	285756.1N	0133508.8W	24	206
ANTENNA ON BUILDING	03	285755.8N	0133510.0W	20	204
POST	03	285743.5N	0133518.6W	32	164
POST	03	285754.7N	0133511.4W	24	197
LAMPPOST	03	285722.6N	0133549.7W	35	79
BUILDING	03	285743.7N	0133520.1W	29	159
POST	03	285731.5N	0133557.6W	29	91
LAMPPOST	03	285725.3N	0133544.7W	41	90
CHIMNEY ON BUILDING	03	285755.8N	0133512.2W	16	194
BUILDING	03	285751.3N	0133514.4W	14	181
ANTENNA ON BUILDING	03	285743.8N	0133519.9W	27	158
ANTENNA ON BUILDING	03	285728.7N	0133543.9W	43	98
TERRAIN	03	285744.0N	0133551.1W	0	126
TREE	03	285725.9N	0133552.9W	33	83
TERRAIN	03	285755.9N	0133553.1W	0	217
TERRAIN	03	285754.2N	0133553.1W	0	196
TERRAIN	03	285751.8N	0133555.0W	0	157
TERRAIN	03	285740.5N	0133557.9W	0	123
TERRAIN	03	285728.3N	0133559.9W	0	90

SIGNIFICANT OBSTACLES

OBS	RWY	LAT	LON	HGT (ft)	ELEV (ft)
TERRAIN	03	285813.7N	0133543.7W	0	379
WINDMILL	03	290009.1N	0133500.3W	392	1028
TERRAIN	03	285949.4N	0133441.5W	0	815
TERRAIN	03	285813.7N	0133543.7W	0	379
TERRAIN	03	285949.7N	0133442.2W	0	811
TERRAIN	03	285948.8N	0133442.3W	0	806
TERRAIN	03	285948.0N	0133444.1W	0	766
TERRAIN	03	285947.2N	0133445.1W	0	734
TERRAIN	03	285946.4N	0133446.0W	0	704
TERRAIN	03	285944.8N	0133446.9W	0	663
TERRAIN	03	285819.4N	0133547.2W	0	390
TERRAIN	03	285816.1N	0133549.1W	0	368
TERRAIN	03	285812.9N	0133550.1W	0	341
TERRAIN	03	285809.7N	0133551.0W	0	315
TERRAIN	03	285803.2N	0133552.0W	0	283
TERRAIN	03	285759.1N	0133553.0W	0	253