

**ENR 4.5 AERONAUTICAL GROUND LIGHTS - EN-ROUTE****4.5.1 General****4.5.1.1 TYPE OF GROUND LIGHTS**

4.5.1.1.1 The aeronautical ground lights are listed in **ENR 4.5.2** table below.

4.5.1.1.2 The list includes aeronautical ground lights which have been installed at and in the vicinity of an aerodrome (aerodrome, identification or hazard beacons) as well as marine lights located in areas close to aerodromes and are likely to be useful to air navigation.

4.5.1.1.3 Only marine lights which have a visibility range of not less than 15 NM are included in this table.

4.5.1.1.4 The aeronautical ground lights in **ENR 4.5.2** are of the following types:

- a) **Identification Beacons** - flashing one or three Morse Code characters which compose a word. The speed of transmission should be between six and eight words per minute. The colour of the flashing is green (white in older installations) at a land aerodrome and yellow at a water aerodrome (ICAO Annex 14, VOL. I, CH 5.3.3).
- b) **Aerodrome Beacons** - normally alternating white/green colour flashes at land aerodromes and white/yellow at water aerodromes. The frequency of total flashes shall be from 20 to 30 per minute (ICAO Annex 14, VOL. I, CH 5.3.3).
- c) **Hazard Beacons** - normally are flashing red colour every 2 seconds.
- d) **Light houses** - normally flashing white.

**Note:** Aerodrome (ABN) and Identification (IBN) beacons are also included in AD 2.15 subsection and/or AD chart – ICAO of each aerodrome.

**4.5.1.2 POSITION**

4.5.1.2.1 With the exception of hazard beacons, the aerodrome and identification beacons are normally sited on the top of the control tower. The ABN and IBN coordinates given in the first column in **ENR 4.5.2** table are those of the Aerodrome Reference Point (ARP).

4.5.1.2.2 Hazard beacons are normally sited in the vicinity of an aerodrome the name of which is given in the Remarks column in **ENR 4.5.2** table.

**4.5.1.3 OPERATIONAL HOURS**

4.5.1.3.1 Aerodrome and identification beacons at civil and military aerodromes are operated during day in conditions of bad visibility and during night whenever the respective aerodrome is in operation. Marine lights are operated during night.

**4.5.1.4 SERVICEABILITY**

4.5.1.4.1 With the exception of marine lights, the serviceability of all the other beacons listed in this subsection, will be advised by NOTAM.

**4.5.1.5 CHARACTERISTICS OF THE SIGNAL**

4.5.1.5.1 To indicate the characteristics of each light (fourth column in **ENR 4.5.2** table), the following abbreviations are generally used:

<b>ABN</b>	Aerodrome Beacon
<b>ALTN</b>	Alternating (light alternates in colour)
<b>HBN</b>	Hazard Beacon
<b>IBN</b>	Identification Beacon
<b>F</b>	Fixed
<b>FLG</b>	Flashing
<b>GP</b>	Group
<b>OCC</b>	Occulting
<b>G</b>	Green
<b>R</b>	Red
<b>W</b>	White
<b>Y</b>	Yellow
<b>EV</b>	every
<b>SEC</b>	seconds

**4.5.2 Table of aeronautical ground lights**

Name IDENT Coordinates (* = Coordinates are NOT in WGS 84)	Type and intensity (1000 Candelas)	Characteristics	Operating hours	Remarks
1	2	3	4	5
AKROTIRI 362100N 0252100E	Light house 69.00	F FLG W EV 30 SEC	HN	
ALEXANDROUPOLIS 405042N 0255236E	Light house 500.00	GP FLG (3) W EV 15 SEC	HN	
ALEXANDROUPOLIS/ DIMOKRITOS 405121N 0255722E	ABN W 100 / G 15	ALTN FLG WG EV 6 SEC	HO: HN & IMC	LGAL at Tower building
ALEXANDROUPOLIS/ DIMOKRITOS 405121N 0255722E	IBN	FLG G "ALX"	HO: HN & IMC	LGAL at Tower building
ALMIROS/ NEA ANCHIALOS 391310N 0224740E	ABN	ALTN FLG WG	HJ/HO: HN & IMC	LGBL
ANDRAVIDA 375514.11N 0211732.47E	ABN W 100 / G 15	ALTN FLG WG EV 6 SEC	HJ/HO: HN & IMC	LGAD at Tower building
ANDRAVIDA 375514.11N 0211732.47E	IBN	FLG "AML"	HJ/HO: HN & IMC	LGAD at Tower building
ANTIPAXOS 390806N 0201518E	Light house 4.27	OCC W & R EV 6 SEC	HN	
APOLITARES 354930N 0231 930E	Light house 62.00	GP FLG (3) W EV 15 SEC	HN	
ARAXOS 380904N 0212532E	ABN W 100 / G 15	ALTN FLG WG EV 12 SEC	HJ/HO: HN & IMC	LGRX at Tower building
ARAXOS 380904N 0212532E	IBN	FLG "ARX"	HJ/HO: HN & IMC	LGRX at Tower building
ARMENISTIS 372924N 0251 836E	Light house 35.20	GP OCC (6) W EV 15 SEC	HN	
ARYIRONISSOS 390030N 0230424E	Light house 26.80	FLG W EV 5 SEC	HN	
ASPROPONTA 363806N 0245154E	Light house 8.15	GP OCC (1+3) W EV 20 SEC	HN	
ASTYPALAI 363448N 0262231E	ABN	ALTN FLG WG	HO: HN & IMC	LGPL at Tower building
ATHINAI/ELEFThERIOS VENIZELOS 375612.12N 0235640.20E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	H24: HN & IMC	LGAV at Tower building
CHANIA/IOANNIS DASKALOGIANNIS 353153N 0240904E	ABN W 100/ G 15	ALTN FLG WG EV 12 SEC	H24: HN & IMC	LGSA at Tower building
CHANIA/IOANNIS DASKALOGIANNIS 353153N 0240904E	IBN	FLG "SUD"	H24: HN & IMC	LGSA at Tower building
CHIOS / OMIROS 382036N 0260826E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	HO: HN & IMC	LGHI at Tower building
CHIOS / OMIROS 382036N 0260826E	IBN 3.7	FLG G "HIO" EV 30 SEC	HO: HN & IMC	LGHI at Tower building
DHISVATO 374024N 0245754E	Light house 34.50	FLG W EV 10 SEC	HN	
DHOUKATO 383354N 0203236E	Light house 17.70	GP OCC (2) W EV 30 SEC	HN	
ELEFSIS 380406N 0233313E	ABN W 100 / G 15	ALTN FLG WG EV 12 SEC	HJ: HN & IMC	LGEL at Tower building
FASSA 375742N 0244206E	Light house 82.50	FLG W EV 5 SEC	HN	
FILERIMOS HILL 362404N 0280832E	HBN 25	FLG R EV 2 SEC	HN	LGRP - LGRD
GAIDAROS 372530N 0245812E	Light house 35.70	FLG W EV 6 SEC	HN	

Name IDENT Coordinates (* = Coordinates are NOT in WGS 84)	Type and intensity (1000 Candelas)	Characteristics	Operating hours	Remarks
1	2	3	4	5
GOUROUNI 391224N 0233530E	Light house F 18.60/FLG 142.00	F FLG W EV 120 SEC	HN	
GRIA 375348N 0245712E	Light house 26.80	FLG W EV 20 SEC	HN	
IKARIA / IKAROS 374058N 0262049E	ABN	ALTN FLG WG	HO: HN & IMC	LGIK at Tower building
IKARIA / IKAROS 374058N 0262049E	IBN	FLG "IKA"	HO: HN & IMC	LGIK at Tower building
IOANNINA / KING PYRROS 394150N 204919E	ABN	ALTN FLG WG	HO: HN & IMC	LGIO at Tower building
→ IOANNINA / KING PYRROS 394150N 204919E	IBN	FLG "YNN"	HO: HN & IMC	LGIO at Tower building
IRAKLION / NIKOS KAZANTZAKIS 352023N 0251049E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	H24: HN & IMC	LGIR at Tower building
IRAKLION / NIKOS KAZANTZAKIS 352023N 0251049E	IBN 25	FLG W „H“, EV 10 SEC	H24: HN & IMC	LGIR at Tower building
KAFKALIDA 375624N 0210718E	Light house W 25.50/ R 5.10	FLG W & R EV 20 SEC	HN	
KALAMATA 370406N 0220131E	ABN W 100/ G 15	ALTN FLG WG EV 7 SEC	HJ/HO: HN & IMC	LGKL at Tower building
KALYMNOS 365748N 0265626E	ABN	ALTN FLG WG	HO: HN & IMC	LGKY at Tower building
KALYMNOS 365748N 0265626E	IBN	FLG W "KLN"	HO: HN & IMC	LGKY at Tower building
KANDHILOUSSA 362948N 0269748E	Light house 17.80	GP OCC (2) W EV 15 SEC	HN	
KASSANDRA 395742N 0232148E	Light house 500.00	GP FLG (2) W EV 15 SEC	HN	
KASTORIA/ ARISTOTELIS 402647N 0211652E	ABN	ALTN FLG WG	HO: HN & IMC	LGKA at Tower building
KASTORIA/ ARISTOTELIS 402647N 0211652E	IBN	FLG G "KSO"	HO: HN & IMC	LGKA at Tower building
KASTRI 395154N 0192548E	Light house 181.00	FLG W EV 10 SEC	HN	
KAVALA/ MEGAS ALEXANDROS 405450N 0243711E	ABN	ALTN FLG WG	HO: HN & IMC	LGKV At Tower building
KAVALA/ MEGAS ALEXANDROS 405450N 0243711E	IBN	FLG W : "KHR"	HO: HN & IMC	LGKV At Tower building
KEFALLINIA 380712N 0203002E	ABN	ALTN FLG WG	HO: HN & IMC	LGKF at Tower building
KEFALLINIA 380712N 0203002E	IBN	FLG W "KFL"	HO: HN & IMC	LGKF at Tower building
KERI 373912N 0204918E	Light house 40.00	GP FLG (3 + 1) EV 15 SEC	HN	
KERKIRA/ IOANNIS KAPODISTRIAS 393607N 0195444E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	H24: HN & IMC	LGKR at Tower building
KERKIRA/ IOANNIS KAPODISTRIAS 393607N 0195444E	IBN 25	FLG W "K" EV 10 SEC	H24: HN & IMC	LGKR at Tower building
KITHIRA 361627N 0230100E	ABN	ALTN FLG WG	HO: HN & IMC	LGKC at Tower building

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1	2	3	4	5
KITHIRA 361627N 0230100E	IBN	FLG "KIT"	HO: HN & IMC	LGKC at Tower building
KOKINOPOULO 383200N 0253630E	Light house 64.40	FLG W EV 5 SEC	HN	
KOS / IPPOKRATIS 364741N 0270528E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	H24: HN & IMC	LGKO at Tower building
KOS / IPPOKRATIS 364741N 0270528E	IBN 3.7	FLG G "KOS" EV 30 SEC	H24: HN & IMC	LGKO at Tower building
KOZANI/ FILIPPOS 401709N 0215030E	ABN	ALTN FLG green and white	HO: HN & IMC	LGKZ at Tower building
KOZANI/ FILIPPOS 401709N 0215030E	IBN	FLG "KZN"	HO: HN & IMC	LGKZ at Tower building
LAKKA 391424N 0200730E	Light house	GP FLG (3) W EV 24 SEC	HN	
LARISSA 393855N 0222655E	ABN W 100/ G 15	ALTN FLG WG EV 12 SEC	HJ: HN & IMC	LGLR at Tower building
LIMNOS/ IFAISTOS 395502N 0251411E	IBN	FLG "LMN"	HO: HN & IMC	LGLM at Tower building
LITHARI 384630N 0244042E	Light house 255.00	GP FLG (4) W EV 120 SEC	HN	
LIVADHA 373642N 0251512E	Light house 3.25	OCC W EV 6 SEC		
MALEAS 362706N 0231206E	Light house 68.00	GP FLG (2) W EV 10 SEC	HN	
MANDHILI 375548N 0243118E	Light house 42.00	GP FLG (3) W EV 10 SEC	HN	
MARATHON / KOTRONI 380848N 0235712"E	IBN 25	FLG G "KRN" EV 6 SEC	HJ: HN & IMC	LGKN at Tower building
MEGALO EMVOLON 403012N 0224906E	Light house W 1570.00/ R 315.00	FLG W & R EV 10 SEC	HN	
MELAGAVI 380142N 0225112E	Light house 91.50	FLG W EV 10 SEC	HN	
MIKONOS 372614N 0252050E	ABN	ALTN FLG WG	HO: HN & IMC	LGMK at Tower building
MIKONOS 372614N 0252050E	IBN	FLG G "MKN"	HO: HN & IMC	LGMK at Tower building
MITILINI / ODYSSEAS ELYTIS 390328N 0263555E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	HO: HN & IMC	LGMT at Tower building
MITILINI / ODYSSEAS ELYTIS 390328N 0263555E	IBN 3.7	FLG G "LSV" EV 30SEC	HO: HN & IMC	LGMT at Tower building
OXIA 381706N 0210554E	Light house 3.20	GP OCC (2) W EV 15 SEC	HN	
PAPPAS 373106N 0255854E	Light house	FLG W EV 30 SEC	HN	
PARADISI HILL 362400N 0280600E	HBN 25	FLG R EV 2 SEC	HN	LGRP - LGRD
PARAPOLA 365548N 0232718E	Light house 17.70	GP OCC (4) W EV 30 SEC	HN	
PASSAS 383006N 0261742E	Light house 37.60	GP FLG (2) W EV 30 SEC	HN	

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1	2	3	4	5
PLAKA 400206N 0252642E	Light house 47.00	GP FLG (3) W EV 10 SEC	HN	
POLIAIGOS 364636N 0243912E	Light house 82.50	FLG W EV 5 SEC	HN	
PONTIKONISSI 390254N 0232012E	Light house W 18.40/ R 3.68	F W & R SECTOR OCC W	HN	
PRASONISSI 355224N 0274542E	Light house 92.00	GP FLG (3) W EV 15 SEC	HN	
PRASOUDHI 383942N 0241448E	Light house F 1.58/ FLG 20.50	F FLG W EV 5 SEC	HN	
PREVEZA/ AKTION 385532N 0204554E	ABN	ALTN FLG WG	HJ/HO: HN and IMC	LGPZ
PSAROMITA 381912N 0221054E	Light house 72.50	FLG W EV 30 SEC	HN	
PSATHOURA 393012N 0241100E	Light house 34.50	F W	HN	
PSITTALIA 375642N 0233542E	Light house 870.00	GP FLG (2) W EV 15 SEC	HN	
RODOS / DIAGORAS 362419N 0280510E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	H24: HN and IMC	LGRP at Tower building
RODOS / DIAGORAS 362419N 0280510E	IBN 3.7	FLG G "R" EV 10 SEC	H24: HN and IMC	LGRP at Tower building
RODOS / MARITSA 362303N 0280704E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	HJ: HN and IMC	LGRD at Tower building
→ SAMOS/ ARISTARCHOS OF SAMOS 374121N 265444E	ABN W 100/ G 15	ALTN FLG WG EV 6 SEC	HO: HN and IMC	LGSM at Tower building
→ SAMOS/ ARISTARCHOS OF SAMOS 374121N 265444E	IBN 3.7	FLG G "SAM" EV 30 SEC	HO: HN and IMC	LGSM at Tower building
SANTORINI 362357N 0252845E	ABN	ALTN FLG WG EV 6 SEC	HO: HN and IMC	LGSR at Tower building
SAPIETZA 364424N 0214142E	Light house 257.80	GP FLG (3) W EV 240 SEC	HN	
→ SEDES 403200N 0230200*E	ABN	ALTN FLG WG	HX: HN and IMC	LGSD at Tower building
SIDHEROS 351900N 0261842E	Light house 16.90	OCC W EV 10 SEC	HN	
SIGRI 391248N 0254954E	Light house F 24.80/ FLG 140.00	F FLG W EV 30 SEC	HN	
SITIA 351258N 0260604E	ABN	ALTN FLG WG	HO: HN and IMC	LGST at Tower building
SITIA 351258N 0260604E	IBN	FLG "SIT"	HO: HN and IMC	LGST at Tower building
SKIATHOS / ALEXANDROS PAPADIAMANDIS 391039N 0233013E	ABN	ALTN FLG WG EV 2.5 SEC	HO: HN and IMC	LGSK at Tower building
SKIATHOS / ALEXANDROS PAPADIAMANDIS 391039N 0233013E	IBN 2	FLG G "SKC" EV 2 SEC	HO: HN and IMC	LGSK at Tower building
SKINARI 375600N 0204230E	Light house 62.00	FLG W EV 1.5 SEC	HN	
SKIROS 385803N 0242915E	ABN	ALTN FLG WG	HJ/HO: HN and IMC	LGSY at Tower building

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SPATHI KITHIRA 362254N 0225706E	Light house F 8.90/ FLG 67.60	F FLG W EV 35 SEC	HN	
SPATHI SERIFOS 370630N 0243012E	Light house 77.00	GP FLG (4) W EV 10 SEC	HN	
STROPHADES 371500N 0210000E	Light house 9.15	GP OCC (2) W EV 6 SEC	HN	
TAINARON 362300N 0222848E	Light house 13.00	OCC W EV 30 SEC	HN	
TANAGRA 382000N 0233300E*	ABN W 100/ G 15	ALTN FLG WG EV 12 SEC	HJ: HN and IMC	LG TG at Tower building
THESSALONIKI / MAKEDONIA 403111N 0225815E	ABN W 100/ G 15	ALTN FLG WG EV 5 SEC	H24: HN and IMC	LG TS at Tower building
THESSALONIKI / MAKEDONIA 403111N 0225815E	IBN 25	FLG G "THS" EV 6 SEC	H24: HN and IMC	LG TS at Tower building
YEROGOMBOS 381054N 0202024E	Light house 230.00	GP FLG (2) W EV 10 SEC	HN	
ZAKINTHOS/ DIONISIOS SOLOMOS 374504N 0205303E	ABN	ALTN FLG WG, EV 24 SEC	HO: HN and IMC	LG ZA at Tower building
ZAKINTHOS/ DIONISIOS SOLOMOS 374504N 0205303E	IBN	FLG G "ZAK"	HO: HN and IMC	LG ZA at Tower building
ZOURVA 372154N 0233454E	Light house 32.80	GP FLG (3) W EV 10 SEC	HN	