**Input paper:** ENG21-3.1.1.5

**Input paper for the following Committee(s):** **Purpose of paper:**

(Select as appropriate)

ARM  ENG  PAP  Input

ENAV VTS  Information

**Agenda item** n.n

**Technical domain/ Task number** 2.1.4

**Author(s)/Submitter(s)** Task Group (submitter Task Group Leader)

# Develop e-112 leading lights and G1023 leading lines into a guideline – intersessional working and status

# Summary

The Annex A to this input paper describes the intersessional work of WG1 Task Group Leading Lines/Lights and should be read together with the italicised documents below

# References

1. IALA. (2005) Recommendation R0112 Leading Lights
2. IALA. (2005) Guideline G1023 The Design of Leading Lines
3. IALA. (2001) Design of Leading Lines Program (Excel Workbook)
4. IALA. Task 2.1.4 Develop e-112 leading lights and G1023 leading lines into a guideline October 2023
5. IALA. Report ENG 13, Action item 29 Input paper: IALA Documents on Leading Lines April 2020 (ENG 14)
6. IALA. (2020) ENG14-3.1.1.2 Revised G1023 on Design of Leading Lines
7. IALA. (2020) ENG14-3.1.1.4 Spreadsheet Tutorial
8. IALA. (2020) ENG14-3.1.1.3 Revised Leading Line Design Programme E-112-2
9. Task 2.1.4 Review of Leading Lights and Lines documentation - update ENG20
10. IALA. (2021) Guideline G1148 Determination of Required Luminous Intensity for Marine Signal Lights
11. Design Intensity and Intensity Ratio Formulas – Excel Spreadsheet intersessional work by Partel Keskula

# Action requested of the Committee

The Committee is requested to:

1. Note the contents of the intersessional working report
2. Review the current working draft of Guideline G1023 during ENG 21 with the intention of finalising the document for submission to the Council in December 2025.
3. intersessional working
   1. Purpose

The purpose of this paper is to update the Committee on the work undertaken since ENG20 under Task 2.1.4 [4]

* 1. Background

The Review of Leading Lines and Lights documents has been carried out intermittently since ENG14. This review covers three existing documents:

* Recommendation R0112 (E-112) Leading Lights
* Guideline G1023 The Design of Leading Lines
* Leading Line Design Programme (MS Excel workbook)
  1. Progress of Working Group since ENG 20 (see also ENG 18 summary paper [9])
* The WG agreed to retain the Recommendation in principle; Leading Lines and Lights is a specific situation that requires a recommendation on the separation and sensitivity parameters.
* The WG met five times for 1.5 – 2-hour sessions between March and October 2025 to collectively review Guideline G1023. The working paper attached to this input document is the status of the Guideline being edited.
* The Guideline has been reviewed and edited up to and including section 6. It is intended that Section 7 onwards will be removed to a separate “manual” explaining the use of the Excel workbook. This work and revision of the Recommendation will be part of the next work for WG1. The current version is attached to this input paper and titled *ENG21\_x.x.x.x Review of Leading Lights and Lines documentation - Intersessional working (Task 2.1.4)*.
* There is an outstanding point requiring consensus agreement in the WG, at ENG 21 regarding the minimum 1’ and whether this applies to the height of a dayboard only or also the width.