



DEKRA & Zhaga Book 18

(Zhaga-D4i) certification

What is Zhaga & Zhaga-D4i?

Zhaga is a global lighting consortium that defines open interface specifications to make LED luminaires and components interchangeable across manufacturers.

Zhaga Book 18 (Zhaga-D4i) standardizes mechanical, electrical, and communication interfaces for outdoor luminaires, sensors, and control nodes - enabling true plug-and-play smart lighting.

Watch this video to discover what Zhaga is all about



Why certify Zhaga-D4i?

- ✓ **Plug-and-Play Interoperability**
Certified products can host compatible components (sensors, nodes, drivers) from any manufacturer.
- ✓ **Future-Proof & Flexible**
Supports upgrades, retrofit modules, and evolving smart city requirements over product lifetime.
- ✓ **Procurement Advantage**
Many public lighting tenders now require Zhaga-D4i certification as standard.

DEKRA's role

- ✓ **Authorized Test Center**
DEKRA Netherlands is an accredited test lab for Zhaga Book 18 Ed. 3.0 - including full scope testing of hybrid interfaces (e.g., Zhaga + ANSI/NEMA).
- ✓ **One-Stop Certification Hub**
DEKRA supports Zhaga and D4i (DALI) testing - making it a single partner for integrated certification.
- ✓ **Industry Expertise**
With long experience and active involvement in Zhaga standardization, DEKRA guides manufacturers through testing and certification.

Certification flow (simplified)



- 1. Design & membership**
 - Design product per **Book 18** specifications.
 - Company must be a **Zhaga member** (regular or associate).
- 2. Logo agreements**
 - Sign **Zhaga logo license** (and **D4i Sublicense** if applicable).
- 3. Choose test lab**
 - Select an **authorized testing center** (e.g., DEKRA) accredited for Book 18.
- 4. Testing & verification**
 - Submit product data and samples (if needed) for compliance verification.
- 5. Certificate & listing**
 - Upon compliance, generate the certificate and publish in the **Zhaga Product Database**.

What can be certified?

- IoT-ready outdoor luminaires
- Smart sensors & communication nodes
- Interchangeable LED components & modules

Connect with DEKRA

DEKRA experts are available to help plan tests, optimize designs, and navigate your certification journey at **Light & Building 2026** and beyond.

DEKRA Product Testing



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