

Testing, Certification, and Logo Trademark Licensing

An introduction

The Zhaga logo

- Members may use the Zhaga logo on certified products that implement a Zhaga specification



- Compliance with the Zhaga specification must be verified
 - The verification is done by an authorized test lab
 - Zhaga certifies products that have been verified to be compliant

Zhaga is about interchangeability

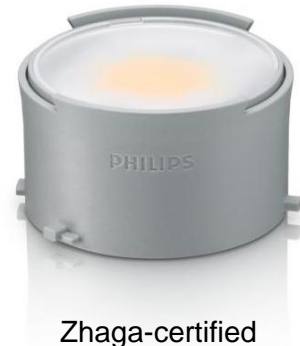
- Interchangeability of LED light engines is achieved when light engines, luminaires, and holders fit together and behave correctly, even when they are made by different manufacturers.
 - the Zhaga logo delivers the message of interchangeability.
- The Zhaga logo has *no intended meaning* for:
 - Quality
 - Reliability
 - Safety
 - Energy efficiency
 - Lifetime
 - Color stability

Logo on different product types

- Members may use the Zhaga logo on:
 - LED light engines with integrated control gear
 - LED luminaires
 - LED modules
 - Electronic control gear (drivers)
 - Holders
- In each case, the logo can be used only after compliance with the relevant Zhaga specification was verified by an authorized Zhaga test lab.

Logo on an LED light engine with integrated ECG

- Zhaga logo on an LED light engine means:
 - The engine will fit correctly in a Zhaga-certified luminaire
 - The maximum temperature of the engine can be predicted when used in a Zhaga-certified luminaire.
 - The photometric properties comply with the relevant Zhaga specification



Zhaga-certified
light engine with integrated control gear
from Philips

Logo on an LED module and ECG

- LED light engines with separate electronic control gear (ECG) consist of two products that are sold independently:
 - LED module
 - Electronic control gear (driver)
- Zhaga logo on an LED module means:
 - The module will fit correctly in a Zhaga-certified luminaire
 - The maximum temperature of the module can be predicted when used in a Zhaga-certified luminaire
 - The photometric properties comply with the relevant Zhaga specification
- Zhaga logo on an ECG means:
 - The mechanical dimension and fixation method complies with Annex A.2 of Zhaga Book 1



Zhaga-certified module
from Osram



Zhaga-certified module
from Philips



Zhaga-certified module
from Lustrous

Logo on a luminaire

- Zhaga logo on luminaire means:
 - A Zhaga-certified LED light engine will fit correctly
 - The luminaire will produce the intended light distribution in combination with a Zhaga-certified LED light engine
 - The maximum temperature of an LED light engine can be predicted when a Zhaga-certified LED light engine is used in this luminaire
- Zhaga logo on the luminaire does not mean:
 - “Zhaga-certified module inside”
(although it probably has one)



Zhaga-certified luminaire
from iGuzzini



Zhaga-certified luminaire
from Cooper Lighting

Logo on a holder

- Socketable LED light engines need a holder
- Zhaga logo on a holder means:
 - A Zhaga-certified LED light engine will fit in this holder
 - The mechanical dimensions, tolerances, electrical connection, and forces comply with the relevant Zhaga specification



Zhaga-certified holder
from AAG Stucchi

Logo Trademark Licensing

- The Zhaga Consortium has filed trademark applications for the Zhaga Logo and the word “zhaga” in many jurisdictions. Use of the logo may require a trademark license.
- The Zhaga Consortium prohibits use of its trademark on products and on product documentation without a trademark license.
- **Regular members** can obtain a conditional trademark license by means of the so-called Zhaga Logo Trademark License Agreement. This agreement licenses the Zhaga Logo for use on products that have been tested and certified to be compliant with the Zhaga specifications.
- **Associate members** pay an annual fee for the trademark license. The annual license fee is 5000 Euro. See clause 3 of the Zhaga Logo License Agreement. Regular members don't have to pay an additional annual fee for use of the logo.

Product Testing by Authorized Test Labs

- Products must be tested to verify compliance with a Zhaga specification
- Zhaga will certify products that have been tested by an Authorized Test Lab
- Each Zhaga Book describes the tests that must be performed
- If the product passes all tests, the Authorized Test Lab delivers:
 - a) A test report
 - b) A test report summary

Authorized Test Labs

- Zhaga authorizes test labs by location and by Zhaga specification
- As of February 25, 2013, the Authorized Test Labs are:
 - Book 2 and Book 3
 - UL Luminaire Testing Laboratory, Inc., Allentown PA, USA
 - DEKRA Certification B.V., Arnhem, The Netherlands
 - VDE Testing and Certification Institute, Offenbach, Germany
 - Other Books
 - no labs authorized yet.
- More test labs are welcome. Zhaga does not limit the number of authorized test labs.

Product Certification

- The manufacturer submits the test report summary to the Zhaga Logo License Administrator
- The Logo License Administrator certifies the product if the test report summary is correct.
- The product is published in the “Certified Product Database”
 - <http://www.zhagastandard.org/products/certified-products.html>
- Use of the Zhaga logo is restricted to products that are visible in the Certified Product Database

More Information on Zhaga Certification

- Public information on certification:
 - <http://www.zhagastandard.org/specifications/certification.html>
- Details of individual Books within the Zhaga Interface Specification:
 - <http://www.zhagastandard.org/specifications/>
- Certified Products Database:
 - <http://www.zhagastandard.org/products/certified-products.html>

www.zhagastandard.org