

Product application checklist

Please complete in BLOCK CAPITALS

White LED Lighting Modules for Backlit Illuminated Signs

Manufacturer/supplier name:

Applicant's name:

Telephone number:

Product information

Product name:

Model number:

Please complete each section of this form based on your product's characteristics. Incomplete or incorrect data could affect the processing of your product application.

Each product application should be made on a separate form unless a product's design characteristics are common to all the products. In this instance a single application can be made for multiple products.

1. Product testing and certification

No Yes

Where type testing has been applied to demonstrate product performance please ensure that the information supplied is sufficient to demonstrate the performance of all the products for which applications are being made.

1.1 Is the product CE marked?

1.2 Does the product comply with the following EU safety directives:

- a) BS EN 50107-3
- b) BS EN 61347-2-13:2014

1.3 Has the product been tested in accordance with the test procedures and standard rating conditions in the following standards?

- a) BS EN13032-1:2004 +A1:2012
- b) IESNA LM-79-08
- c) BS EN 62722-2-1:2016

1.4 How was the product(s) performance tested? (Please select one)

- a) Tested by an independent laboratory (i.e. 'independent testing')
- b) Representative model/s used

1.5 Where products have been tested by an independent laboratory:

- a) What is the name of the independent laboratory?

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- b) What is the laboratory's registration number (where accredited)?

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1. Product testing and certification (continued)	No	Yes
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1.6 If representative testing has been used, what are the “representative models”?

ETL Product ID number	Product name and model number

Representative testing may be used where applications are being made for a range of two or more products that are variants of the same basic design. Test data may be submitted for a representative selection of models provided that all variants parameters such as size, shape, power rating and constructional design do not reduce product energy efficiency performance or basic functionality.

The representative models must be selected by dividing the range of products into groups of models with similar design characteristics, and testing a model in the lowest quartile of predicted performance in each group. The performance of each model in the group must be predicted using a validated mathematical model. As a minimum, at least one model must be tested in each range of products.

2. Product type and features	No	Yes
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2.1 Does the product:

- a) Include one or more LEDs, driven by suitable electronic control gear?
- b) Include only CE marked components?
- c) Only include components that are compliant with the Ecodesign requirements and energy labelling regulations in force, where applicable.

2.2 Is the product:

- a) Used exclusively to back light illuminated signage?
- b) Capable of producing white light?

White light is defined in Annex 2, paragraph 3b of EC regulation 245/2009 “Implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to Ecodesign requirements for florescent lamps without integrated ballast, for high intensity discharge lamps, and for ballast and luminaries able to operate such lamps”

2.3 Please confirm that the product is not:

- a) Used as road traffic signs, safety signs or fire safety signs, trackside railway signs or airside airport signs.
- b) Designed to incorporate or be supplied with LED based ‘lamps’ that retrofit to traditional light sources.

3. Product performance	No	Yes
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3.1 Is the lighting efficacy greater than, or equal to, 93 lumens per circuit watt? (lumens of light output emitted by the module per circuit watt of electrical power consumed)

3.2 Is the power factor greater than, or equal to 0.9 at ≥75% of designed driver load at highest light output level?

3.3 Is the product able to provide light output (in lumens) after 6000 hours of continuous operation that is not less than 90% of their initial light output (in lumens)?

3.4 Is the electrical power consumed (in circuit watts) defined as the total power consumed by the whole unit from the main circuit connection point to the LED light source, including losses in the control gear?

3.5 Does the individual control gear have a standby power not exceeding 0.5 watts when the lighting unit incorporates an electronically addressed dimming or switching circuit? Or if the product is not fitted with an automatic switching or dimming circuit, does the product not consume power when it is switched off?

4. Summary of documents to be included

No

Yes

Please send **ONE** copy of each of the following documents:

If the relevant information in support of the questions above is contained within a larger document, please indicate the location of the relevant information. Note that all documentation submitted must directly refer to the model numbers for which you are making this application. Documentation should be added to your online application at <https://www.gov.uk/energy-technology-list>.

- a. A technical sales brochure or leaflet for the product clearly summarising:
- i) The key features of the product (ideally including photographs of the product's exterior).
 - ii) The product's operation (i.e. in-built functionality) and intended applications (i.e. usage).
 - iii) Any product selection options (including optional extras, alternative configurations etc.).

This documentation should contain sufficient detail to enable the assessor to confirm that the proposed entry on the Energy Technology Product List (ETPL) is correct, and uniquely represents a single product of fixed design (as defined by the rules of the ECA Scheme). If the model names contain any 'wildcards' in respect of cosmetic variations please check with ECA Questions that this is permitted before submitting your application.

- b. A technical specification for the product, including:
- i) Details of the model numbers covered (including individual features of each model).
 - ii) The product's design ratings (electrical, mechanical, thermal, flow rates, energy use etc.).
 - iii) A description of how to install the product including connection/wiring diagrams. Where the product must be assembled, configured and/or commissioned on site before use, please include instructions.

This documentation should contain sufficient detail to enable the assessor to confirm that each product entry on the Energy Technology Product List (ETPL) has the design features specified in the eligibility criteria for that category of product. Please indicate on the checklist where information on specific design features is located in the documentation.

- c. Evidence that the product meets the performance criteria, including:
- i) Test reports showing product performance at the standard rating/test conditions. ii) Details of the test procedures/standards used to determine product performance. iii) A declaration certifying the accuracy of the test reports and confirming that:
 - The test facilities used comply with the minimum specifications outlined in the test standard, and the required test conditions where applied during testing.
 - All measurement equipment used in testing was calibrated by an accredited laboratory, or its calibration is otherwise traceable back to national standards.
 - Appropriate quality assurance procedures have been used to verify or cross-check the accuracy and repeatability of the test procedures and test results.

Please note that summary test reports will only be accepted, where the accuracy of the test reports has been certified by a recognised independent body, or where two detailed test reports have been submitted per product range.

Please refer to ECA Guidance Note 5 "ECA Testing Programme: Energy Technology List (ETL) Product Testing Framework" for further guidance on the submission of test results, and minimum information requirements.

- d. A Declaration of Conformity with EU Directives on product safety, including:
- i) CE Marking Directives
 - ii) BS EN 50107-3
 - iii) BS EN 61347-2-13:2014
- e. Evidence that a quality assurance system/procedures is/are in place to:
- i) Control the specification, design, manufacturing and testing of the products.
- f. Signed application checklist.

Please note that all product documentation provided must be written in, or translated into, English.

5. Declaration

I confirm that the information given above is correct to the best of my knowledge and that I have read and agree to the terms and conditions governing the management of the Enhanced Capital Allowance Energy Technology List (ETL).
A copy of the terms and conditions can be found at <https://www.gov.uk/guidance/energy-technology-list>

Signature: Date:

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