



Energy Technology List

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
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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 Does the product have an appropriate Conformity Assessment mark?
If so, to which directive?

1.2 Does the product comply with the following EU safety directives:
a) BS EN 50107-3:2018
b) BS EN 61347-2-13:2014+A1:2017

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-79-19
c) BS EN 62722-2-1:2023

1.4 How was the product(s) performance tested? (Please select one)
a) Tested in the manufacturer's in-house laboratory, in accordance with a registered Quality Management System and a representative sample of the test data has been cross-checked and verified by an independent body (i.e. 'self-tested and verified or cross-checked by an independent body')
b) Tested in a laboratory either in house or on-site, witnessed by an independent body (i.e. 'witnessed testing')
c) Tested by an independent laboratory (i.e. 'independent testing')
d) Representative testing

Further information regarding the first three routes can be found in Guidance Note 5 on the ETL product testing framework.

<https://www.gov.uk/government/publications/energy-technology-list-etl-product-testing-framework>

	1. Product testing and certification (continued)	No	Yes																							
1.5	<p>Where product testing has been done in accordance with a registered Quality Management System, what is its registration number?</p> <p>_____</p>																									
1.6	<p>Where a representative sample of the test data has been cross-checked and verified by an independent body:</p> <p>a) What is the name of the independent laboratory?</p> <p>_____</p> <p>b) What is the laboratory’s registration number (where accredited)?</p> <p>_____</p>																									
1.7	<p>Where product testing has been witnessed by an independent body, what was the name of the witness?</p> <p>_____</p>																									
1.8	<p>Where products have been tested by an independent laboratory:</p> <p>a) What is the name of the independent laboratory?</p> <p>_____</p> <p>b) What is the laboratory’s registration number (where accredited)?</p> <p>_____</p>																									
1.9	<p>If representative testing has been used, what are the “representative models”?</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">ETL Product ID number</th> <th style="width: 50%; text-align: center;">Product name and model number</th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> </tbody> </table> <p><i>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, product category and constructional design do not reduce product energy efficiency performance or basic functionality.</i></p> <p><i>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.</i></p>		ETL Product ID number	Product name and model number	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
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	2. Product type and features	No	Yes
2.1	<p>What product category are you applying for? (Please select one)</p> <p>a) Channel letters</p> <p>b) Box and cabinet signs</p> <p>c) Faux neon</p>		

2. Product type and features (continued)		No	Yes
2.2	<p>Does the product:</p> <ul style="list-style-type: none"> a) Include one or more LEDs, driven by suitable electronic control gear? b) Include only components with an appropriate Conformity Assessment mark? c) Only include components that are compliant with the Ecodesign requirements and energy labelling regulations in force, where applicable? <p><i>The relevant regulations are: The Ecodesign for Energy-related Products and Energy Information (Lighting Products) Regulations 2021 No 1095</i></p>		
2.3	<p>Is the product:</p> <ul style="list-style-type: none"> a) Used exclusively to back light illuminated signage? b) Capable of producing white light? <p><i>The definition of white light is as defined in “The Ecodesign for Energy-related Products and Energy Information (Lighting Products) Regulations 2021 No 1095”</i></p>		
2.4	<p>Please confirm that the product is not:</p> <ul style="list-style-type: none"> 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								
3.1	<p>Does the product have the appropriate lighting efficacy performance thresholds set out in Table 1 below, when tested after 100 hours of continuous operation?</p> <p>Table 1 Performance thresholds for white LED lighting modules for backlit illuminated signs</p> <table border="1"> <thead> <tr> <th>Product Category</th> <th>Lumens / Circuit Watt¹</th> </tr> </thead> <tbody> <tr> <td>Channel Letters</td> <td>≥100</td> </tr> <tr> <td>Box and Cabinet signs</td> <td>≥125</td> </tr> <tr> <td>Faux Neon signs</td> <td>≥100</td> </tr> </tbody> </table> <p>¹ Lumens of light output emitted by the module per circuit watt of electrical power consumed.</p>	Product Category	Lumens / Circuit Watt ¹	Channel Letters	≥100	Box and Cabinet signs	≥125	Faux Neon signs	≥100		
Product Category	Lumens / Circuit Watt ¹										
Channel Letters	≥100										
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3.2	<p>Is the power factor greater than, or equal to 0.9 at ≥ 75% of the designed driver load at highest light output level?</p>										
3.3	<p>Is the product able to provide light output (in lumens) after 3,000 hours of continuous operation that is not less than 90% of their initial light output (in lumens) as per The Ecodesign for Energy-related Products and Energy Information (Lighting Products) Regulations 2021 No 1095?</p>										
3.4	<p>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?</p>										
3.5	<p>Please confirm that:</p> <ul style="list-style-type: none"> a) The individual control gear has a standby power not exceeding 0.5 Watts when the lighting unit incorporates an electronically addressed dimming or switching circuit. b) If the product is not fitted with an automatic switching or dimming circuit, the product does not consume any power when it is switched off. 										
3.6	<p>Does the product meet the L70B50 performance threshold at 50,000hrs in line with the TM-21 – “Lumen degradation lifetime” estimation method for LED light sources?</p>										

4. Summary of documents to be included	No	Yes
<p>Please send ONE copy of each of the following documents:</p> <p>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://etl.beis.gov.uk/engetl/fox/live/ETL_LOGIN/login</p>		
<p>a) A technical sales brochure or leaflet for the product clearly summarising:</p> <ul style="list-style-type: none"> 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.). <p><i>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 that the supplied documentation can evidence the conformity of the products against the requirements of the ETL eligibility criteria. If the model names contain any 'wildcards' in respect of cosmetic variations please check with ETL Questions that this is permitted before submitting your application.</i></p>		
<p>b) A technical specification for the product, including:</p> <ul style="list-style-type: none"> 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. <p><i>This documentation should contain sufficient detail to enable the assessor to confirm that each product entry on the 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.</i></p>		
<p>c) Evidence that the product meets the performance criteria, including:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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. iv) Where the test reports have not been prepared by an independent body, evidence that the accuracy of product performance data has been independently verified or cross-checked by an independent body (where the in-house laboratory does not hold UKAS/ILAC accreditation) v) Where representative testing has been used, please include details of selection method used, and evidence that the products covered by the representative model(s) are variants of the same basic design. <p><i>Please refer to ETL Guidance Note 5 "ETL Testing Programme: Energy Technology List (ETL) Product Testing Framework" for further guidance on the submission of test results, and minimum information requirements.</i></p>		
<p>d) A Declaration of Conformity with UK/EU Directives on product safety, including:</p> <ul style="list-style-type: none"> i) An appropriate Conformity Assessment mark ii) BS EN 50107-3: 2018 iii) BS EN 61347-2-13:2014+A1:2017 		
<p>e) Evidence that a quality assurance system/procedures is/are in place to:</p> <ul style="list-style-type: none"> i) Control the specification, design, manufacturing and testing of the products. 		
<p>f) Signed application checklist.</p> <p><i>Please note that all product documentation provided must be written in, or translated into, English.</i></p>		

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 Energy Technology List.
A copy of the terms and conditions can be found at www.gov.uk/guidance/energy-technology-list.

Signature: Date:

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