PERMANENT DOCUMENT	EPRS 003

PROPOSED UPDATES FROM ANDY HUGHES MARKED AS TRACK CHANGES

ENEC+ Requirement Sheet 003

Luminaire Performance – LED Luminaires

Application of EN 62722-2-1:~~2016~~2023

Approved by:	MCCB General Meeting 18 April 2018	Nr of pages: 4
Date of issue:	~~May 2018~~September 2024	
Supersedes:	PD EPRS 003 – May 2018~~January 2015~~	Page 1 of 4
Previous edition can be used until (DoW)	June 2026	

ETICS, the European Testing, Inspection and Certification System
Rue des Deux Églises, 29 - 1000 BRUSSELS – E-mail : secretariat@etics.org

Application of EN 62722-2-1:~~2016~~ 2023 for the granting of the ENEC+ Mark within the European Certification System (ECS)

Table of change

Revision	Reason to change
April 2014	Initial version
January 2015	Addition of new paragraphs 100 and 200, addition of the reference to the TRF document Change from IEC/PAS to IEC standard
May 2018	Main reference standard updated from IEC 62722-2-1:2014 to EN 62722-2-1:2016 throughout this document. References to 'Type A' and Type 'B' luminaires have been updated to reflect the revision of these classification that occurred when the original IEC PAS was updated to a full standard
September 2024	Main reference standard updated from EN 62722-2-1:2016 to EN 62722-2-1:2023 throughout this document.

1 Introduction

This Permanent Document details the application of EN 62722-2-1 with respect to the specifications use for the granting of the ENEC+ Mark for LED Luminaires.

Because of the very rapid development of LED technology and the long test times specified for some requirements of EN 62722-2-1, variations from the precise test conditions are specified by this PD. This is to allow the practical application of the specification for third party certification, under the scope of the ENEC+ Mark. This PD details the test and certification variations that may be applied.

The prescribed variations are justified on the basis that the use of EN 62722-2-1 for ENEC+ certification is always accompanied with a system of ongoing quality assurance applied by the manufacturer and supervised by the CB.

This PD will be kept under review as standardised techniques for the acceleration and extrapolation of LED performance test data become better evolved.

Note: The variations in this PD are relevant only to Type B LED Luminaires. For Type A initial measurements only are required in any case (see EPRS 001). For Type C luminaires only IEC 62722-1 is applied.

2 Variations

The following variations for Type 'B' LED luminaires, compared to EN 62722-2-1:~~2016~~ 2023 shall be applied:

Variation 1 – Clause 6.3 General Test Conditions (Luminaires using LED modules where compliance with EN 62717 has not been proven)
The scope of the ENEC+ Scheme with respect to this standard is limited to the verification of initial performance data claimed by the manufacturer and endurance

testing to demonstrate robust construction. Life testing to verify maintained performance data is not required. It is expected that requirements for maintained performance verification will be added under the scope of this scheme as practical techniques for deriving these characteristics become better defined and evolved.

Consequently the requirements of the standard are to be applied as summarised by Table A.

Table A – Application of EN 62722-2-1 (Limited for Initial Performance Data and Endurance Tests)

Clause	Requirement	Notes for application
4	Product information	Not required for characteristics and ratings associated with maintained performance – E.g. Lumen maintenance code, failure fraction, maintained chromaticity coordinate, etc.
5	General requirements~~Not used~~	No variation ~~– No requirement~~~~No variation – No requirement~~
6	Test conditions	To be amended according to Variation 1 and Variation 3 of this PD
7	Input power	No variation – Initial data only
8	Photometric performance	No variation – Initial data only
9	Chromaticity, colour temperature and colour rendering	Limited to verification of initial performance data only
10	LED luminaire life	To be applied as detailed for 10.2, 10.3
10.2	Lumen maintenance	Not applicable – No requirement
10.3	Endurance tests	All tests to be applied as detailed by EPRS 001
11	Verification	Sample size to be amended according to Variation 2 of this PD

Variation 2 – Test Sample Sizes

For the purposes of type testing under the scope of the ENEC+ certification scheme the test sample sizes detailed by Table 3 may be reduced to one sample in all cases.

Note 3: Type testing conducted for the purpose of this ENEC+ Scheme is to demonstrate capability of conformity for the product design. The type test does not justify the control of possible production and manufacturing batch variations. For the ENEC scheme these aspects are controlled by separate quality system requirements and procedures applied to the manufacturing process.

Variation 3 – Luminaires with LED modules in compliance with EN 62717 (Type A luminaires)

EN 62722-2-1 specifies reduced testing requirements for luminaires that use LED modules shown to be in conformity with EN 62717 (Type A luminaire).

Under the scope of this ENEC+ scheme LED modules where conformity to PD EPRS 001 is proven (see AD ENEC 331) are accepted.

3 Additional guidance

The test report shall be provided according to the available TRF document.

4 Licence requirement information text

The following requirement information shall be stated on the ENEC+ licence.
EPRS 003: 2024-09~~2018-05~~
Based on EN 62722-2-1: 2023~~2016~~

100 Initial acceptance of a MPL

In the application of clause 7.2 from OD ENEC 312, only photometric measurements will be performed on the same sample by the TL in order to monitor the outcome.
Endurance tests will be assessed by the CB at the MPL testing facility.

200 Additional data to be shown on the ENEC+ licence

In addition to the common data for all EPRS listed in the document OD ENEC 321, the ENEC+ Licence for this EPRS shall contain at least the following data:

(r 11) Supply Voltage
(r 12) Input Power
(r 13) Luminous Flux
(r 14) Colour temperature (CCT)
(r 15) Colour rendering index (CRI)
(r 16) Luminous Efficacy
(r 17) Lamp Type/Rating
(r 18) Luminaire (Type A, B, C)
(r 19) Ambient Temperature Rating (tq)