



Ref. Certif. No.

**DK-119769-A1-UL**

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

**CB TEST CERTIFICATE**

Product

Independent LED Module

Name and address of the applicant

Signify Netherlands B.V.  
High Tech Campus 48 Eindhoven 5656 AE  
The Netherlands


Name and address of the manufacturer

Signify Netherlands B.V.  
High Tech Campus 48 Eindhoven 5656 AE  
The Netherlands

Name and address of the factory

Note: When more than one factory, please report on page 2

Ratings and principal characteristics

China  
☐ Additional Information on page 2  
Voltage 24 V  P 17.24 W/m  
Ta -35~+50°C, tc max 75°C, IP 67, SELV input only  
☒ Additional Information on page 2

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

Main series: Fortimo LEDFlex S xm ylm/m f d Ce Gg a  
☒ Additional Information on page 2

Additional information (if necessary may also be reported on page 2)

The report was revised to include administrative modifications.  
☒ Additional Information on page 2-3

A sample of the product was tested and found to be in conformity with

IEC 62031:2018

As shown in the Test Report Ref. No. which forms part of this Certificate

4789995951.1-1 issued on 2022-04-13

This CB Test Certificate is issued by the National Certification Body



- ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2022-04-14

Original Issue Date: 2021-10-20

Signature:

Jan-Erik Storgaard

**Additional Model Detail(s):**

Fortimo LEDFlex S xm ylm/m f d Ce Gg a

**Product Key:**

Main series: Fortimo LEDFlex S xm ylm/m f d Ce Gg a

Where:

x - Module length in m. one or two digits, may be 6 or 10.

y - Lumen output/m, three or four digits, maximum 2000.

f - Color of light (optional, for single channel f represents zcc of 3 digits, where z is CRI of LED divided by 10, minimum 8, cc is color temperature of LED divided by 100, maximum 65);

d - Flavor of light (optional, may be blank or "PW" or "WWR").

e - Minimum cuttable length in centimeter (1 to 2 digits, may be 5 or 10).

g - Generation (1 digit, may be 1).

a - Commercial suffix (optional).

**Maximum ratings of the series:**

Series	Model name on min. cuttable unit.	CCT [K] Max	Lumen/m Max.	Power [W/m] Max	DC Voltage [V]	Min. cuttable unit	Min. Module length	Max. Module length	tc [°C]	ta [°C]
Fortimo LEDFlex S xm ylm/m f d Ce Gg a	ylm/m f d	6500	2000	17.24	24	5cm	6m	10m	75	-35~+50

**Models used for the tests:**

The complete tests have been performed on the following models which are the most representatives of all the series.

Model	Maximum ratings and characteristics
Fortimo LEDFlex S 6m 2000lm/m 830 C5 G1 (0.5 m)	24V 17.24 W/m ta: -35~+50°C tc max: 75 °C IP67

**Additional information (if necessary)**


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**Additionally evaluated to:** EN IEC 62031:2020  
National Differences specified in the CB Test Report

**Additional information:**

- Test results of assessment of blue light hazard are reported on separate test reports No. 4789995951.2\_1 according to IEC TR 62778: 2014. The modules are classified as RISK GROUP 0 UNLIMITED.
- The modules can be supplied only by SELV electronic LED controlgears separately approved according to IEC/EN 61347-2-13 and protected against output short-circuit and overload.
- The customer is obligated to add an appropriated cooling system to the LED module in order to not exceed to value. Temperature test shall be performed on the final product to verify the effectiveness of this cooling system.
- The product under test is a constant voltage Independent LED module for linear lighting applications.
- The cord has been evaluated according to IEC/EN 60598 Clause 5.2.
- The thermal test according to IEC/EN 60598 Clause 12.4 has been conducted.
- The modules can be optionally provided with metal mounting rail, and tests were conducted without metal mounting rail.
- The product can be cut at one end and with end cap applied tightly by glue, the maximum use length shall not draw current exceeding 4.31A.
- The product can also be cut, with connectors applied for Cable-Strip, or Strip-Strip connection, sealed with glue, which is for built-in application only. The maximum use length shall not draw current exceeding 4.31A, and the construction has been qualified additionally according to IEC 60598-1 IP65.

**Summary of Modifications:**

- Change factory address

**Additional information (if necessary)**



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