



Ref. Certif. No.

DK-83412-UL

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

## CB TEST CERTIFICATE

Product

Built-in LED Module

Name and address of the applicant

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

Name and address of the manufacturer

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

Name and address of the factory

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

☐ Additional Information on page 2

Ratings and principal characteristics

Voltage 24 V  P nominal 22.5 W/m

tc 85°C, SELV input only (see page 2-4 for further ratings)

Trademark (if any)

PHILIPS

Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

Fortimo LEDFlex ym xlm/m zcc Ca Gg  
See Page 2.

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

Additionally evaluated to EN 62031:2008/ A1:2013/ A2:2015 ;  
National Differences specified in the CB Test Report.☒ Additional Information on page 2

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

IEC 62031:2008/AMD1:2012, IEC 62031:2008/AMD2:2014, IEC 62031:2008

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

4788959894-1 issued on 2019-05-09

This CB Test Certificate is issued by the National Certification Body



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Denko), 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

Date: 2019-05-16

Signature:

Jan-Erik Storgaard

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

**Model Details:**

Fortimo LEDFlex ym xlm/m zcc Ca Gg Where:

y - Module length in m. one or two digits up to 50.

x - Lumen output/m, three or four digits up to 2500.

z - CRI of LED divided by 10. one digit, may be "7", "8" and "9".

cc - CCT of Module divide by 100. May be followed by PW.

a - Unit minimum cut length in cm. May be "5" or "10".

g - Number of module generation. May be "1".

**Additional Information:**

Maximum ratings of the series:

Model name	Modelname on min. cuttable unit. (Optional)	Modelname on min. cuttable unit.	CCT [K]	Power [W/m]	DC Voltage [V]	tc [°C]
Fortimo LEDFlex 5m 1000lm/m 830 C10 G1	1000lm/m 830	929001490880	3000	7.1	24	85
Fortimo LEDFlex 5m 1000lm/m 840 C10 G1	1000lm/m 840	929001490980	4000	6.6	24	85
Fortimo LEDFlex 5m 1000lm/m 827 C10 G1	1000lm/m 827	929001491080	2700	7.4	24	85
Fortimo LEDFlex 5m 1000lm/m 865 C10 G1	1000lm/m 865	929001491180	6500	6.6	24	85
Fortimo LEDFlex 5m 1500lm/m 830 C10 G1	1500lm/m 830	929001491280	3000	10.9	24	85
Fortimo LEDFlex 5m 1500lm/m 840 C10 G1	1500lm/m 840	929001491380	4000	10.0	24	85
Fortimo LEDFlex 5m 1500lm/m 827 C10 G1	1500lm/m 827	929001491480	2700	11.2	24	85
Fortimo LEDFlex 5m 1500lm/m 865 C10 G1	1500lm/m 865	929001491580	6500	10.0	24	85
Fortimo LEDFlex 5m 2000lm/m 830 C10 G1	2000lm/m 830	929001491680	3000	14.9	24	85
Fortimo LEDFlex 5m 2000lm/m 840 C10 G1	2000lm/m 840	929001491780	4000	13.8	24	85
Fortimo LEDFlex 5m 2000lm/m 827 C10 G1	2000lm/m 827	929001491880	2700	15.6	24	85
Fortimo LEDFlex 5m 2000lm/m 865 C10 G1	2000lm/m 865	929001491980	6500	13.8	24	85
Fortimo LEDFlex 5m 2500lm/m 830 C10 G1	2500lm/m 830	929001492080	3000	18.9	24	85
Fortimo LEDFlex 5m 2500lm/m 840 C10 G1	2500lm/m 840	929001492180	4000	17.6	24	85

**Additional information (if necessary)**


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Fortimo LEDFlex 5m 2500lm/m 827 C10 G1	2500lm/m 827	929001492280	2700	19.9	24	85
Fortimo LEDFlex 5m 2500lm/m 865 C10 G1	2500lm/m 865	929001492380	6500	17.6	24	85
Fortimo LEDFlex 50m 1000lm/m 830 C10 G1	1000lm/m 830	929001493280	3000	7.1	24	85
Fortimo LEDFlex 50m 1000lm/m 840 C10 G1	1000lm/m 840	929001493380	4000	6.6	24	85
Fortimo LEDFlex 50m 1500lm/m 830 C10 G1	1500lm/m 830	929001493480	3000	10.9	24	85
Fortimo LEDFlex 50m 1500lm/m 840 C10 G1	1500lm/m 840	929001493580	4000	10.0	24	85
Fortimo LEDFlex 50m 2000lm/m 830 C10 G1	2000lm/m 830	929001493680	3000	14.9	24	85
Fortimo LEDFlex 50m 2000lm/m 840 C10 G1	2000lm/m 840	929001493780	4000	13.8	24	85
Fortimo LEDFlex 50m 2500lm/m 830 C10 G1	2500lm/m 830	929001493880	3000	18.9	24	85
Fortimo LEDFlex 50m 2500lm/m 840 C10 G1	2500lm/m 840	929001493980	4000	17.6	24	85
Fortimo LEDFlex 5m 1000lm/m 930PW C5 G1	1000lm/m 930PW	929001489280	3000	8.2	24	85
Fortimo LEDFlex 5m 1000lm/m 940PW C5 G1	1000lm/m 940PW	929001489380	4000	7.6	24	85
Fortimo LEDFlex 5m 1000lm/m 927 C5 G1	1000lm/m 927	929001489480	2700	8.6	24	85
Fortimo LEDFlex 5m 1000lm/m 965 C5 G1	1000lm/m 965	929001489580	6500	7.6	24	85
Fortimo LEDFlex 5m 1500lm/m 930PW C5 G1	1500lm/m 930PW	929001489680	3000	12.6	24	85
Fortimo LEDFlex 5m 1500lm/m 940PW C5 G1	1500lm/m 940PW	929001489780	4000	11.8	24	85
Fortimo LEDFlex 5m 1500lm/m 927 C5 G1	1500lm/m 927	929001489880	2700	13.2	24	85
Fortimo LEDFlex 5m 1500lm/m 965 C5 G1	1500lm/m 965	929001489980	6500	11.8	24	85
Fortimo LEDFlex 5m 2000lm/m 930PW C5 G1	2000lm/m 930PW	929001490080	3000	17.1	24	85

**Additional information (if necessary)**


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Fortimo LEDFlex 5m 2000lm/m 940PW C5 G1	2000lm/m 940PW	929001490180	4000	16.0	24	85
Fortimo LEDFlex 5m 2000lm/m 927 C5 G1	2000lm/m 927	929001490280	2700	18.0	24	85
Fortimo LEDFlex 5m 2000lm/m 965 C5 G1	2000lm/m 965	929001490380	6500	16.0	24	85
Fortimo LEDFlex 5m 2500lm/m 930PW C5 G1	2500lm/m 930PW	929001490480	3000	21.2	24	85
Fortimo LEDFlex 5m 2500lm/m 940PW C5 G1	2500lm/m 940PW	929001490580	4000	20.0	24	85
Fortimo LEDFlex 5m 2500lm/m 927 C5 G1	2500lm/m 927	929001490680	2700	22.5	24	85
Fortimo LEDFlex 5m 2500lm/m 965 C5 G1	2500lm/m 965	929001490780	6500	20.0	24	85
Fortimo LEDFlex 50m 1000lm/m 930PW C5 G1	1000lm/m 930PW	929001492480	3000	8.2	24	85
Fortimo LEDFlex 50m 1000lm/m 940PW C5 G1	1000lm/m 940PW	929001492580	4000	7.6	24	85
Fortimo LEDFlex 50m 1500lm/m 930PW C5 G1	1500lm/m 930PW	929001492680	3000	12.6	24	85
Fortimo LEDFlex 50m 1500lm/m 940PW C5 G1	1500lm/m 940PW	929001492780	4000	11.8	24	85
Fortimo LEDFlex 50m 2000lm/m 930PW C5 G1	2000lm/m 930PW	929001492880	3000	17.1	24	85
Fortimo LEDFlex 50m 2000lm/m 940PW C5 G1	2000lm/m 940PW	929001492980	4000	16.0	24	85
Fortimo LEDFlex 50m 2500lm/m 930PW C5 G1	2500lm/m 930PW	929001493080	3000	21.2	24	85
Fortimo LEDFlex 50m 2500lm/m 940PW C5 G1	2500lm/m 940PW	929001493180	4000	20.0	24	85

- The modules have been evaluated according to IEC/TR 62778 and the Lamp classification Group for Blue Light Hazard is Risk Group 1.

- 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 tc 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 Built-in LED module for linear lighting applications (indoor and outdoor use).

-The maximum use length shall not draw current exceeding 5A.

-The lead wires, connectors have been evaluated according to IEC/EN 60598 Clause 5.3 and Clause 15.5, to carry current not exceeding 5A.

-As requested, the thermal test according to IEC/EN 60598 Clause 12.4 has been conducted additionally.

#### Additional information (if necessary)



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