

## 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

Ratings and principal characteristics

Imax 800mA --- (see test report for further ratings)  
 Additional Information on page 3

Trademark / Brand (if any)

PHILIPS

Customer's Testing Facility (CTF) Stage used

CTF Stage 3

Model / Type Ref.

Fortimo LED-R f r p xu y zcc dC eVg a  
 Additional Information on page 2

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

**Additionally evaluated to:** EN IEC 62031:2020, EN IEC 62031:2020/A11:2021  
The report was revised to include technical modifications.  
National Differences: EU Group Differences  
 Additional Information on page 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

4790267713 issued on 2023-11-23

This CB Test Certificate is issued by the National Certification Body



UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA  
 UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK  
 UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN  
 UL Solutions (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: 2023-11-24

Original Issue Date: 2022-05-17

Signature:

Thomas Wilson



Ref. Certif. No.

**DK-127633-M1-UL**

Factory(ies):

**Additional Model Detail(s):**

**Product Key:**

Main series: **Fortimo LED-R f r p xu y zcc dC eVg a**

Where:

f = Variant (may be blank or "FT" or "BioUP")

r = Control (may be blank or "CES" or "CED")

p = Performance (may be blank or "PR" or "ST" or "VO")

x = Product length in feet or mm or inch (1-4 digits/characters (for example 1.5 or 102))

u = Measurement unit for product length (two characters, may be "ft" or "mm" or "in")

y = Lumen output classification (may be "LF", or "MF", or "SMF", or "HF", or "VHF" or blank if r="CED")

z = CRI of LED divided by 10 (one digit, may be "8" or "9" or blank if r="CED")

cc = Color temperature of LED divided by 100 (two digits, may be between 27 and 65) or "27-865" or "27-965", or blank if r="CED"

d = Connector designator (may be blank or "F" = front connector, or "B" = back connector, or "D" = dual entry connector)

e = Voltage type (one character, may be "H" or "L")

g = Number of LED module's generation (one digit)

a = Commercial suffix for commercial purposes (optional)

**Additional information (if necessary)**



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
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**Additional Ratings:**

The maximum ratings for safety testing are shown below:

| Product name                     | Vf<br>(V) | If<br>(mA $\equiv$ ) | P<br>(W) | Uout<br>(V) | tc<br>(°C) |
|----------------------------------|-----------|----------------------|----------|-------------|------------|
| <b>HV series, generation 5</b>   |           |                      |          |             |            |
| Fortimo LED-R xu y zcc dC HV5    | 50        | 600                  | 30       | 350         | 85         |
| Fortimo LED-R FT xu y zcc dC HV5 | 74        | 240                  | 17,76    | 350         | 85         |
| Fortimo LED-R BioUP r xu dC HV5  | 78        | 240                  | 18,72    | 350         | 85         |
| <b>LV series, generation 5</b>   |           |                      |          |             |            |
| Fortimo LED-R xu y zcc dC LV5    | 37        | 800                  | 29,6     | 120         | 85         |
| Fortimo LED-R FT xu y zcc dC LV5 | 37        | 480                  | 17,76    | 120         | 85         |
| Fortimo LED-R BioUP r xu dC LV5  | 39        | 480                  | 18,72    | 120         | 85         |

**Additional Information:**

The following standard was also applied:

IEC/TR 62778: 2014

Test results are reported on separate test report No. 4790267713.2.1\_1 issued by UL-CCIC Company Limited. The modules are classified as RISK GROUP 1 (See also photobiological test report for more information).

**Summary of Modifications:**

- Add a new factory and remove one factory;
- Upgrade EU group difference and add Enclosure 4;
- Update UL logo;

See test report for details

**Additional information (if necessary)**


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