

# ENEC LICENSE

License No. ENEC-04047-M1

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Date of Issue 2023-11-24

**License Holder** SIGNIFY NETHERLANDS B.V.  
HIGH TECH CAMPUS 48 EINDHOVEN 5656 AE  
NETHERLANDS

**Production site**

**Certification Mark** See Annex 1

**Certified Product** Built-in LED Module

**Model** Fortimo LED-R f r p x u y zcc dC eVg a  
See page 2 for additional Information

**Trademark** PHILIPS

**Ratings** I<sub>max</sub> 800mA --- (see test report for further ratings)  
See Page 3 for additional ratings

**Tested acc. to** EN IEC 62031:2020, EN IEC 62031:2020/A11:2021

**Test Report No.** 4790267713 issued on 2023-11-23

**Additional Information** The report was revised to include technical modifications.  
See page 3 for additional information

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**Certification Manager**  
Thomas Wilson

**Certification Body**

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

UL International Demko A/S, Borupvang 5A, DK-2750  
Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com  
www.ul.com



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## Additional Model(s):

### Product Key:

Main series: **Fortimo LED-R** f r p x u y z c c d e V g 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)

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## Ratings:

The maximum ratings for safety testing are shown below:

Product name	Vf (V)	If (mA $\equiv$ )	P (W)	Uout (V)	tc (°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:

This certificate replaces previous certificate no. ENEC-04047 issued on 2022-05-17, due to

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

See test report for details

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).

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# Annex 1 to License No.

## ENEC-04047-M1

### Annex of the form of the Mark



15 is the identification number of the Certification Body

Size of the mark:

The size of the mark may be reduced on the condition that it remains legible and that the ratio  $b/a=1,7$  is kept.

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