

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC

## CB TEST CERTIFICATE

Product  
Produit

Name and address of the applicant  
Nom et adresse du demandeur

Name and address of the manufacturer  
Nom et adresse du fabricant

Name and address of the factory  
Nom et adresse de l'usine

Note: When more than one factory, please report on page 2  
Note: Lorsque il y a plus d'une usine, veuillez utiliser la 2<sup>ème</sup> page

Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales

Trademark (if any)  
Marque de fabrique (si elle existe)

Type of Manufacturer's Testing Laboratories used  
Type de programme du laboratoire d'essais  
constructeur

Model / Type Ref.  
Ref. De type

Additional information (if necessary may also be  
reported on page 2)  
Les informations complémentaires (si nécessaire,,  
peuvent être indiqués sur la 2<sup>ème</sup> page

A sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à la

As shown in the Test Report Ref. No. which forms part  
of this Certificate  
Comme indiqué dans le Rapport d'essais numéro de  
référence qui constitue partie de ce Certificat

## CERTIFICAT D'ESSAI OC

Built-in LED module

Philips Lighting B.V.  
High Tech Campus 45  
Eindhoven, 5656 AE The Netherlands

Philips Lighting B.V.  
High Tech Campus 45  
Eindhoven, 5656 AE The Netherlands



☒ Additional Information on page 2

HV: I<sub>max</sub>: 1000 mA ---  
LV: I<sub>max</sub>: 1120 mA ---  
(see Test Report for further ratings)

**PHILIPS**

Fortimo LED line xft ylm zcc qR eVg a  
See Page 2-3

☒ Additional Information on page 2

IEC 62471 (ed.1)

4786996605-2 issued on 2016-06-06

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**



- ☐ 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

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

Date: 2016-06-09  
Original Issue Date: 2015-09-21

Signature:

*Jan Erik Storgaard*  
Jan-Erik Storgaard

## Model Details:

**Main series:** Fortimo LED line *xft ylm zcc qR eVg a*

## Where:

- x* = Product length in feet (one digit or three characters (for example 1.5))
- y* = Lumen output (three or four digits);
- z* = CRI of LED divided by 10 (one digit, may be "8" or "9");
- cc* = Color temperature of LED divided by 100 (two digits, may be between 27 and 65);
- q* = Number of LED's rows (one digit, may be "1" or "3");
- e* = Voltage type (one character, may be "H" or "L");
- g* = Number of LED module's generation (one digit, may be "2" or "3");
- a* = Alphanumeric commercial suffix for commercial purposes (optional)

**Variant series 1:** LBA *bs xft ylm zcc eh a*

## Where:

- b* = Platform shape (4-5 characters, may be "Area", "Line", "Slim", "Point")
- s* = Segment (one character, Commercial application);
- x* = Product length (or diameter) in feet or dimensions in mm for "Slim" shape (1-6 characters)
- y* = Lumen output (three or four digits);
- z* = CRI of LED divided by 10 (one digit, may be "8" or "9");
- cc* = Color temperature of LED divided by 100 (two digits, may be between 27 and 65);
- e* = Voltage type (one character, may be "H" or "L");
- h* = Last digit of release year (one digit);
- a* = Alphanumeric commercial suffix for commercial purposes (optional)

**Variant series 2:** *b LED Strip xu ylm zcc d eVg a*

## Where:

- b* = Family name (may be "Fortimo" or "CertaFlux")
- x* = Product length in feet or mm (one digit or three characters (for example 1.5 or 102))
- u* = Measurement unit for product length (two characters, may be "ft" or "mm")
- y* = Lumen output (three or four digits);
- z* = CRI of LED divided by 10 (one digit, may be "8" or "9");
- cc* = Color temperature of LED divided by 100 (two digits, may be between 27 and 65);
- d* = Connector designator (may be "1R" or "FC" = front connector, or "BC" = back connector)
- e* = Voltage type (one character, may be "H" or "L");
- g* = Number of LED module's generation (one digit, may be "1" or "2" or "3" or "4");
- a* = Alphanumeric commercial suffix for commercial purposes (optional)

**Additional information (if necessary)****Information complémentaire (si nécessaire)**

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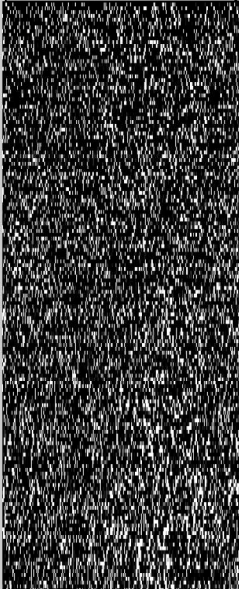
Date: 2016-06-09

Original Issue Date: 2015-09-21

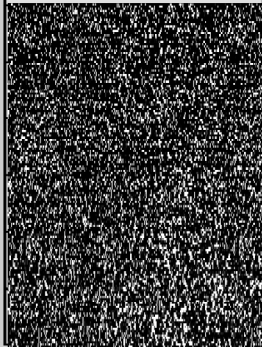
Signature:

Jan-Erik Storgaard

The LED chips listed in the table below have been evaluated into this test report according IEC/TR 62778 and the Lamp classification Group for Blue Light Hazard is **Risk Group 1 Unlimited** :

LED Chip	Current flowing on LED [mA]	CCT rated [K]	Blue light Measured [W / m <sup>2</sup> sr]	Risk Group Classification
	200	6500	4885	Risk Group 1 Unlimited
	280	6500	3982	Risk Group 1 Unlimited
	180	6500	5151	Risk Group 1 Unlimited
	50	6500	9482	Risk Group 1 Unlimited
	55	5000	9415	Risk Group 1 Unlimited
	72	4000	9363	Risk Group 1 Unlimited
	135	3000	9465	Risk Group 1 Unlimited
	Current flowing on LED [mA]	CCT rated [K]	Blue light small source measured [W / m <sup>2</sup> ]	Risk Group Classification
	240	5000	0,929	Risk Group 1 Unlimited

The LED chips listed in the table below have been evaluated into this test report according IEC/TR 62778 and the Lamp classification Group for Blue Light Hazard is **Risk Group 2** (Ethv value is listed in the table) :

LED Chip	Current flowing on LED [mA]	CCT rated [K]	Blue light Measured [W / m <sup>2</sup> sr]	Ethv value [lx]
	240	3000	14682	1341
	240	4000	27523	655
	240	5000	33371	494
	240	6500	42732	338
	200	6500	17764	833
	240	6500	38583	394

**Additional information (if necessary)**  
**Information complémentaire (si nécessaire)**



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Date: 2016-06-09

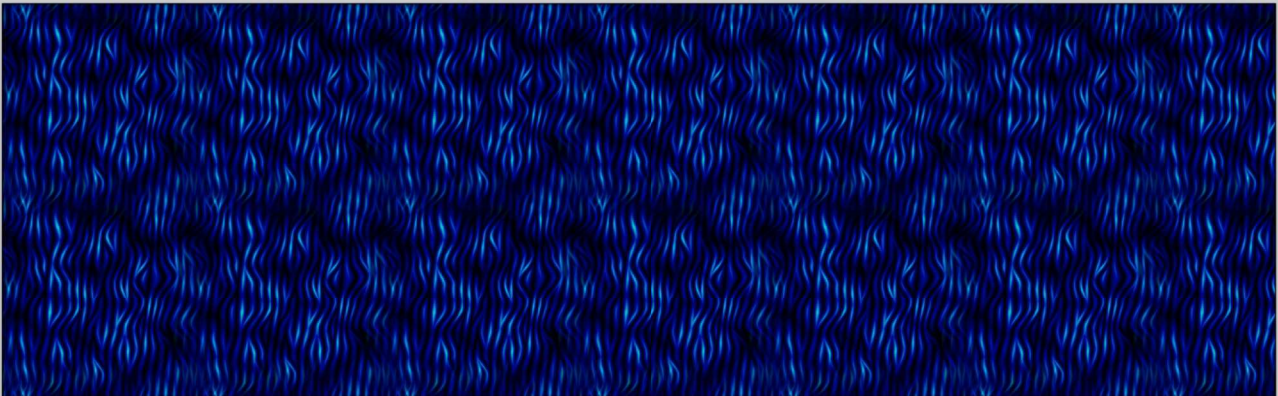
Original Issue Date: 2015-09-21

Signature:

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Factories:



Additional Information:

Also investigated to: EN 62471:2008

National differences specified in the CB Test Report

The original report was modified to include the following changes/additions:

- Addition of parameter d of product key of variant series 2 and update its maximum ratings.

- [REDACTED]

**Additional information (if necessary)**

**Information complémentaire (si nécessaire)**



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