

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 plus d'une usine, veuillez utiliser la 2^{ème} 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^{ème} 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 Self-Ballasted 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

Philips Lighting Poland S A
UL PRZEMYSLOWA 29
PILA, 64-920 Poland

☐ Additional Information on page 2

220-240 V~ 50/60 Hz tc: 95 °C
(see Test Report for further ratings)

PHILIPS

Main series: Certaflux LLS ES xmm ylm zcc HVg a
See Page 2

☒ Additional Information on page 2

IEC 62031(ed.1), IEC 62031(ed.1);am1, IEC 62031(ed.1);am2

4787087861-2 issued on 2017-02-28

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 (Denmark), 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

Date: 2017-02-28

Signature:

Jan-Erik Storgaard

Model Details:
Product Key:

Main series: **Certaflux LLS ES xmm ylm zcc HVg a**

Where:

- x = Product length in mm (four digits, may be "1150" or "1450")
- y = Lumen output (four digits, may be "4500" or "6750");
- 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 30 and 65);
- g = Number of LED module's generation (one digit, may be "1" or "2");
- a = Commercial suffix for commercial purposes (optional)

Maximum ratings:

Lumen output (y) [lm]	Supply Voltage	Power [W]	Number of LEDs	t _c [°C]
6750	220-240 V~ 50/60 Hz	54	132	95
4500	220-240 V~ 50/60 Hz	35	80	95

Product Key:

Variant series: **LBA DLineC xft ylm zcc Hg**

Where:

- x = Product length in feet (one digit, may be "4" or "5")
- y = Lumen output (four digits, may be "4500" or "6750" or "6700");
- 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 30 and 65);
- g = Number of LED module's generation (one digit, may be "6" or "7");

Maximum ratings:

Lumen output (y) [lm]	Supply Voltage	Power [W]	Number of LEDs	t _c [°C]
6750 or 6700	220-240 V~ 50/60 Hz	54	132	95
4500	220-240 V~ 50/60 Hz	35	80	95

Additional Information:

- Customer shall maintain clearances and creepage distances between tracks/components on PCB and screws/accessible conductive parts in compliance with table 11.1 of IEC/EN 60598-1 standard.
- M3 fixing screws with diameter of their heads not exceeding 6 mm shall be used (if in metallic material). The fasteners used to secure the module to the mounting surface must be tightened with a torque between 0,6 and 1 Nm.
- The demarcated areas on PCBs for components and fixing screws and the installation drawings on datasheet shall be respected by the customer.
- The customer is obligated to add an appropriated cooling system to the LED module in order to not exceed t_c value and the maximum temperatures of the module's components. Temperature test shall be performed on the final product to verify the effectiveness of this cooling system.
- The integral LED controlgear of the module was evaluated as integral component according to IEC/EN 61347-2-13 and IEC/EN 61347-1.
- The module has been also evaluated according to IEC TR 62778 (Second Edition): **RISK GROUP 2** (Worst value of E_{thr} = 338 lx) for modules using LEDs Lumileds 3020 series and **RISK GROUP 1 Unlimited** for modules using LEDs APT 2835 series.

Also investigated to: EN 62031:2008/A1:2013/A2:2015

National Differences specified in the CB Test Report

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

- Addition of one alternative LED (APT 2835 series) in the table of components (in bold).
- Changing of Number of LED module's generation into product keys of mains and variant series.

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

☐ 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

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