

# DK-52305-P3-UL

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

## **CB TEST CERTIFICATE**

**Product** 

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

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

Ratings and principal characteristics

Trademark / Brand (if any)

Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

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

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

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

Constant Voltage Built-in LED Module

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

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☐ Additional Information on page 2

24 V === tc: 70 °C

□ Additional Information on page 2-3

PHILIPS or Signify

Main series: InteGrade a o r l xmm (y") cz n f Gg s

□ Additional Information on page 2-3

□ Additional Information on page 3

IEC 62031:2018

4790565921.1 issued on 2022-11-11

This CB Test Certificate is issued by the National Certification Body



Date: 2022-11-15

□ 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

Signature:

Jan-Erik Storgaard



DK-52305-P3-UL

## Additional Model Detail(s):

**Product Key:** 

Main series:

InteGrade a o r l xmm (y") cz n f Gg s

Where:

= Assembly type (may be "F" or "FIX" or "fixture" or "engine"); а

0 = Optic type (may be "NB" (Narrow Beam) or "UB" (defrost Narrow Beam) or blank

(defrost lens));

= Version indication (may be "Va" or "value" or "Vi" or "vision" or blank);

= Lumen indication (may be "NB" (Narrow Beam) or "HL" (High Lumen) or "HF"

(High Flux) or blank);

= Module length in mm (three or four digits);

= Module length in inch (one or two digits or blank); *(y")* 

= CRI of LED divided by 10 (one character, may be "8" or "9" or "C" (Cool) or "W" С

(Warm) or blank);

= CCT of LED module divided by 100 (two characters, may be a value between 22

and 65 or "WR" (White Red) or "XR" (Extra Red) or blank);

= Color nuance (may be "PW" (Premium White) or "Rose" or blank);

= Fixture type (may be "SD" or "CTR" or blank);

= Number of LED module's generation (may be "1" or "2" or "3" or "4" or blank); g

= Commercial suffix for commercial purposes (optional) s

#### Maximum ratings:

Assembly Type	Length [mm]	Power [W]	DC Current [mA]	Number of LEDs	ССТ [К]	tc [°C]		
LED module's generation <i>g</i> ≤ 3								
engine	1725	60	2640	336	6500	70		
F or FIX or fixture	1750	120	5280	672	6500	70		
LED module's generation $g = 4$								
engine	1750	51,1	2128	273	6500	70		
F or FIX or fixture	1600	61	2540	528	6500	70		

## Additional information (if necessary)



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for Est Sexual

Jan-Erik Storgaard



# DK-52305-P3-UL

#### **Product Key:**

#### Variant series :

CertaFlux LCM400 r xmm cz Geng s

#### Where:

r = Version indication (may be "Va" (value) or "Vi" (vision) or blank);

- x = Module length in mm (three or four digits);
- c = CRI of LED divided by 10 (one character, may be "8" or "9" or "C" (Cool) or "W" (Warm));
- z = CCT of LED module divided by 100 (two characters, may be a value between 27 and 50 or "WR" (White Red));
- g = Number of LED module's generation (may be "3");
  - = Commercial suffix for commercial purposes (optional)

#### Maximum ratings:

Length [mm]	Power [W]	DC Current [mA]	Number of LEDs	сст [к]	tc [°C]
1200	12	500	112	5000	70

#### Additional information:

- The LED Module shall be energized only by a separately approved power supply 24 V constant voltage, SELV and short-circuit proof. The connection to power supply shall be made by the DC plug with connecting leads (tails) provided with the Module.
- When two or more LED Modules are connected in a daisy chain configuration (string) the total maximum load of daisy chain shall be 100 W (Maximum supply current: 4,2 A).
- The customer is obligated to add an appropriated cooling system to the LED Module in order to not exceed to value.
- Connecting leads of the Module shall be considered as "internal wiring" on the appliances in which the Module will be installed.
- The Module has been evaluated according to IEC TR 62778: 2014: Risk Group 1.
- The Module (as required by the client) has been also evaluated according to clause 4.14.1 of IEC/EN 60598-1 Standard, clauses 21.1, 22.31 and 30.2 of IEC/EN 60335-1 standard, clauses 7.1, 19.104 and Annex CC of IEC/EN 60335-2-24 standard, clauses 7.1, 19.103 and Annex BB of IEC/EN 60335-2-89 standard.
- The Module (as required by the client) have been also evaluated according to IEC 62262 (ed. 1.1) and IEC 60068-2-75 (ed. 2): IK 02 test performed with positive results.

Additionally evaluated to: EN IEC 62031:2020, EN IEC 62031:2020/A11:2021 National Differences specified in the CB Test Report.

### Additional information (if necessary)



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