

# ENEC License

**License**  
ENEC-04943-M1

**Issue date**  
2025-10-20



This is to acknowledge that

**Signify Netherlands B.V.**

High Tech Campus 48 EINDHOVEN 5656 AE Netherlands

has had

**Constant Voltage Built-in LED Module**

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

See page 2 and 3 for additional Information

evaluated and meets the requirements of the standard

**EN IEC 62031:2020, EN IEC 62031:2020/A11:2021,  
EN 62262:2002, EN 62262:2002/A1:2021**

Test Report Nos. 4791250693.3 issued on 2025-10-15,  
4788248818.1 issued on 2025-10-17

A handwritten signature in black ink.

Certification Manager  
Thomas Wilson

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See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

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## ENEC LICENSE TECHNICAL DETAILS

### Production site(s)

#### Trademark

**PHILIPS** or **Signify**

#### Ratings

24 V  $\equiv$   $t_c$ : 75 °C IK02  
(see further ratings in "Models")

#### Additional Information

The report was revised to include technical modifications.

Add InteGrade G5 models, and so updated product key, rating table and the relevant; add one factory.

This Certificate replaces earlier issued ENEC Certificate No. ENEC-04943 dated 2024-07-03.

- The LED Module shall be energized only by a separately approved power supply 24 V  $\equiv$  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  $t_c$  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, 22.114 and Annex BB of IEC/EN 60335-2-89 standard and Clause 5.3 of IEC/EN 60079-7 (for G4 and G5) as required by clause 22.112 of IEC/EN 60335-2-89.
- 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.

**Models (continued from page 1)**

Product Key:

Main series:

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

Where:

*a* = Assembly type (may be "F" or "FIX" or "fixture" or "engine")

*o* = Optic type (may be "NB" (Narrow Beam) or "UB" (defrost Narrow Beam) or "ECO" (half scattered) or blank (defrost lens));

*r* = 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)

*x* = Module length in mm (three or four digits)

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

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

*z* = 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)

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

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

*g* = Number of LED module's generation (may be "1" or "2" or "3" or "4" or "5" or blank)

*s* = Commercial suffix for commercial purposes (optional)

Maximum ratings:

Assembly Type	Length [mm]	Power [W]	DC Current [mA]	Number of LEDs	CCT [K]	$t_c$ [°C]
<b>LED module's generation <math>g \leq 3</math></b>						
engine	1725	60	2640	336	6500	70
F or FIX or fixture	1750	120	5280	672	6500	70
<b>LED module's generation <math>g = 4</math></b>						
engine	1750	51,1	2128	273	6500	70
F or FIX or fixture	1600	61	2540	528	6500	70
<b>LED module's generation <math>g = 5</math></b>						
engine	1660	24	1000	284	6500	75

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));

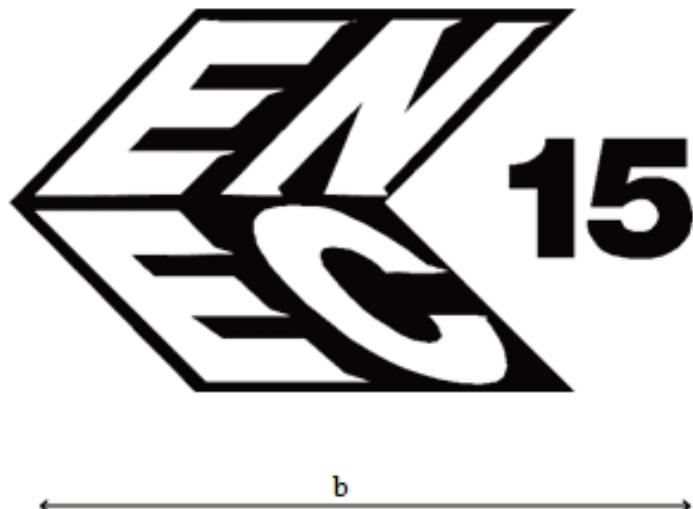
*g* = Number of LED module's generation (may be "3")

*s* = Commercial suffix for commercial purposes (optional)

Maximum ratings:

Length [mm]	Power [W]	DC Current [mA]	Number of LEDs	CCT [K]	$t_c$ [°C]
1200	12	500	112	5000	70

## ENEC LICENSE FORM OF THE ENEC 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.