

CERTIFICATE

Issued to:
Applicant:
Osram GmbH
Marcel-Breuer-Strasse 6
80807 München, Germany

Licensee:
Osram GmbH
Marcel-Breuer-Strasse 6
80807 München, Germany

Product : Built-in LED modules
Trade name(s) : OSRAM
Type(s)/model(s) : TFPXXXX-G1-ZYY-LL, TFPXXXXS-G1-ZYY-LL, TFXXXX-G1-ZYY-LL and TFXXXXS-G1-ZYY-LL

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 62031:2008, EN 62031:2008/A1:2013 and EN 62031:2008/A2:2015
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2196588

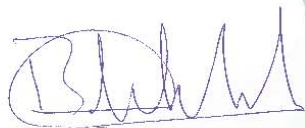
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 26 April 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-113568

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K. Lin
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Built-in LED modules
Trade name(s)	: OSRAM
Type(s)/model(s)	: TFPXXXX-G1-ZYY-LL, TFPXXXXS-G1-ZYY-LL, TFXXXX-G1-ZYY-LL and TFXXXXS-G1-ZYY-LL
Rated voltage	: 24 Vdc
Nature of supply	: dc
Max. power	: Max. 77,5 W
Ambient temperature (ta)	: 50 °C
Rated maximum temperature (tc)	: 80 °C
Degree of protection	: IP66 (TFPXXXXS-G1-ZYY-LL, TFPXXXX-G1-ZYY-LL)
Degree of protection	: IP00 (TFXXXXS-G1-ZYY-LL, TFXXXX-G1-ZYY-LL)
Colour temperature	: 2700-6500 K

TESTS**Test requirements**

EN 62031:2008
EN 62031:2008/A1:2013
EN 62031:2008/A2:2015

Test result

The test results are laid down in DEKRA test file 436327100.

Additional information

TFXXXXS-G1-ZYY-LL, TFPXXXXS-G1-ZYY-LL
(XXXX = 600 to 2000, means the luminous flux is 600-2000 lm/m,
Z = 8 or 9, means CRI80 or CRI90,
YY = 27 to 65, means CCT is 2700-6500 K,
LL = 05, means max module length is 5 m)
TFXXXX-G1-ZYY-LL, TFPXXXX-G1-ZYY-LL
(XXXX = 300 to 2000, means the luminous flux is 300-2000 lm/m,
Z = 8 or 9, means CRI80 or CRI90;
YY = 27 to 65, means CCT is 2700-6500 K,
LL = 05, means max module length is 5 m)

The list of components is laid down at test report 4363271.50.

Conclusion

The examination proved that all requirements were met.