

# AENOR

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## LICENCE

to use the European Mark



**Licence Nr.** ENEC/000979

**Under the conditions given in the following pages of this document, the licence to use the ENEC Mark in conjunction with the suffix 01, as shown above, has been issued to:**

ESPECIALIDADES LUMINOTÉCNICAS, S.A.U.  
PI MALPICA, CL E, 11  
50016 ZARAGOZA (España *Spain*)

**For the product(s):**

Electronic ballast for tubular fluorescent lamps

**Trade name(s):**

ELT

**Complying with the following European Standards:**

EN 60929:2011; EN 61347-1:2015;  
EN 61347-2-3:2011

**Date:** 2017-04-27

**Signature:**

A handwritten signature in blue ink, appearing to be 'Avelino Brito', written over a large, faint circular watermark.

**Name:** Avelino Brito  
**Position:** Chief Executive Officer

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

AENOR INTERNACIONAL, S.A.U.  
Cl Génova, 6  
28004 MADRID (Spain)

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## CERTIFICADO ENEC DE PRODUCTO



Tipo de producto / Type of Product	BALASTO ELECTRÓNICO PARA LÁMPARAS FLUORESCENTES TUBULARES
r1) N° Certificado / Certificate n°	ENEC/000979
r2) Fecha Certificado / Date of the Certificate	2017-04-27
r3) N° de Informe de ensayo / Test report n°	201403130072, 201403130070, 201403130074, 2016120778B1-M1
r4) Nombre y dirección del licenciario Name and address of the licensee	ESPECIALIDADES LUMINOTÉCNICAS, S.A.U. PI MALPICA, CL E, 11 50016 ZARAGOZA (España)
r5) Dirección de la factoría Address of the factory	PI MALPICA, CL E NAVÉ 11 50016 ZARAGOZA (España)
r6) Referencia de la Norma Española Spanish Standard	UNE-EN 60929:2011; UNE-EN 61347-1:2016; UNE-EN 61347-2-3:2012
r7) Referencia de la Norma Europea European Standard	EN 60929:2011; EN 61347-1:2015; EN 61347-2-3:2011
r8) Referencia / Reference	Ver Anexo I <i>refer to Annex I</i>
r9) Marca comercial / Trade Mark	ELT
r10) Tensión y frecuencia asignadas Rated voltage and frequency	220-240 V-; 50/60 Hz
r11) Tipo de lámparas y potencias asignadas Lamps type and rated power	Ver Anexo I <i>refer to Annex I</i>
r12) Temperatura envolvente asignada (tc) y ambiental Rated case temperature (tc) and ambient	Ver Anexo I <i>refer to Annex I</i>
r13) Clasificación del balasto Classification of the ballast	To build-in
r14) Características generales General features	Ver Anexo I <i>refer to Annex I</i>
Fecha de caducidad: 2019-07-10 Date of expiry	Este certificado anula y sustituye al 007/000979, de fecha 2014-07-10. This certificate supersedes certificate 007/000979, dated 2014-07-10.

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## CERTIFICADO ENEC DE PRODUCTO



**ANEXO I AL CERTIFICADO ENEC/000979**  
**ANNEX I TO CERTIFICATE ENEC/000979**

<b>REFERENCIA</b> <i>Reference</i>	<b>TIPO DE LAMPARAS Y POTENCIAS ASIGNADAS</b> <i>Lamps type and rated power</i>	<b>TEMPERATURA ENVOLVENTE ASIGNADA (TC) Y AMBIENTAL</b> <i>Rated case temperature (tc) and ambient</i>	<b>CARACTERÍSTICAS GENERALES</b> <i>General features</i>
BE 324-T5-2	Fluorescent; 3 x 24 W	tc = 70 °C; ta = -25 ... +55 °C	80 W; 0,355 A; FP: 0,98
BE 414-T5-2	Fluorescent; 3 to 4 x 14 W	tc = 70 °C; ta = -20 ... +55 °C	51 to 62 W; 0,21 to 0,283 A; FP: 0,97
BE-114-35-T5-S	Fluorescent T5-HE; 1 x 14, 21, 28 or 35 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,078 ... 0,172 A; PF: 0,97; voltage-driven pre-heat starting
BE-118-4-UN	Fluorescent T8; 1 x 18 W	tc = 70 °C; ta = -25 ... +55 °C	In = 85 ... 185 mA; PF: 0,98; pre-heat starting
BE-124-T5-S	Fluorescent T5-HO; 1 x 24 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,12 A; PF: 0,98; voltage-driven pre-heat starting
BE-136-2	Fluorescent; 1 x 36 W	tc = 70 °C; ta = -20 ... +50 °C	-
BE-136-3	Fluorescent; 1 x 36 W	tc = 75 °C; ta = -25 ... +55 °C	38 W; 0,165 A; FP: 0,97
BE-136-4-UN	Fluorescent T8; 1 x 36 W	tc = 70 °C; ta = -25 ... +55 °C	In = 0,10 ... 0,38 A; PF: 0,98; pre-heat starting
BE-139-T5-S	Fluorescent T5-HO; 1 x 39 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,19 A; PF: 0,98; voltage-driven pre-heat starting
BE-149-T5-S	Fluorescent T5-HO; 1 x 49 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,24 A; PF: 0,98; voltage-driven pre-heat starting
BE-154-T5-S	Fluorescent T5-HO; 1 x 54 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,26 A; PF: 0,98; voltage-driven pre-heat starting
BE-158-2	Fluorescent; 1 x 58 W	tc = 70 °C; ta = -20 ... +50 °C	-
BE-158-3	Fluorescent; 1 x 58 W	tc = 75 °C; ta = -25 ... +55 °C	55 W; 0,243 A; FP: 0,97
BE-158-4-UN	Fluorescent T8; 1 x 58 W	tc = 70 °C; ta = -25 ... +55 °C	In = 0,25 ... 0,53 A; PF: 0,98; pre-heat starting
BE-180-T5-S	Fluorescent T5-HO; 1 x 80 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,37 A; PF: 0,98; voltage-driven pre-heat starting
BE-214-28-T5-2	Fluorescent T5-HE; 2 x 14, 21, or 28 W	tc = 70 °C; ta = -20 ... +50 °C	In = 0,07 ... 0,29 A; PF: 0,94; voltage-driven pre-heat starting
BE-214-35-T5-S	Fluorescent T5-HE; 2 x 14, 21, 28 or 35 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,15 ... 0,34 A; PF: 0,98; voltage-driven pre-heat starting
BE-218-4-UN	Fluorescent T8; 2 x 18 W	tc = 70 °C; ta = -25 ... +55 °C	In = 0,10 ... 0,34 A; PF: 0,95; pre-heat starting
BE-224-T5-S	Fluorescent T5-HO; 2 x 24 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,24 A; PF: 0,98; voltage-driven pre-heat starting
BE-236-3	Fluorescent; 2 x 36 W	tc = 70 °C; ta = -25 ... +55 °C	70 W; 0,17 - 0,31 A; FP: 0,98
BE-236-4-UN	Fluorescent T8; 2 x 36 W	tc = 70 °C; ta = -25 ... +55 °C	In = 0,19 ... 0,70 A; PF: 0,98; pre-heat starting
BE-239-T5-S	Fluorescent T5-HO; 2 x 39 W	tc = 70 °C; ta = -20 ... +55 °C	In = 0,36 A; PF: 0,97; voltage-driven pre-heat starting
BE-240-4-UN	Fluorescent T8; 2 x 36 W	tc = 70 °C; ta = -25 ... +55 °C	In = 0,19 ... 0,70 A; PF: 0,95; pre-heat starting
BE-258-3	Fluorescent; 2 x 58 W	tc = 75 °C; ta = -25 ... +55 °C	108 W; 0,475 A; FP: 0,98
BE-318-2	Fluorescent; 3 x 18 W (18)	tc = 70 °C; ta = -20 ... +50 °C	-
BE-418-2	Fluorescent; 4 x 18 W (18)	tc = 70 °C; ta = -20 ... +55 °C	-
BE-436-2	Fluorescent; 4 x 36 W	tc = 70 °C; ta = -20 ... +50 °C	-

Original Electrónico

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Entidad de certificación de producto acreditada por ENAC con nº 01/C-PR275  
Product certification body accredited by ENAC, number 01/C-PR275