

PID:

04010011

CID:

C.1993.5503

Certificato di approvazione

Approval certificate



**IMQ, ente di certificazione accreditato,
autorizza la ditta**

IMQ, accredited certification body, grants to

PRD N° 005B

Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

**CARIBONI GROUP SPA
VIA G. A PRATO 22
38068 ROVERETO TN
IT - Italy**

all'uso del marchio

the licence to use the mark

ENEC 03,IMQ



Il presente certificato è stato rilasciato sotto la presunzione e subordinatamente al fatto che il concessionario detenga tutti i necessari diritti legali relativi ai prodotti presentati per le prove e la certificazione, descritti nell'Allegato al presente certificato; inoltre, esso è soggetto alle condizioni previste nel Regolamento "MARCHI IMQ - Regolamento per la certificazione di prodotti".

La validità dei certificati ENEC è verificabile sul sito www.enec.com

This certificate has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the products presented for testing and certification, and listed in the annex to this certificate; moreover, it is subjected to the conditions foreseen by Rules "IMQ MARKS - RULES for product certification".

Validity of ENEC licences can be checked at www.enec.com

per i seguenti prodotti

**Apparecchi di illuminazione
stradale
(Serie EP445)**

for the following products

*Luminaires for road and street
lighting
(Series EP445)*

Emesso il | Issued on **2018-06-29**

Aggiornato il | Updated on ---

Sostituisce | Replaces ---

IMQ S.p.A.

Allegato - Certificato di approvazione
Annex - Approval certificate

Emesso il / Issued on 2018-06-29
Aggiornato il / Updated on ---
Sostituisce / Replaces ---

Prodotto | Product

Apparecchi di illuminazione stradale Luminaires for road and street lighting

Concessionario | Licence Holder

CARIBONI GROUP SPA
VIA G. A PRATO 22
38068 ROVERETO TN
IT - Italy

Marchio | Mark



ENEC
03,IMQ

Costruito a | Manufactured at

97001834	CLROBO.C04PPROBO.P	23875	OSNAGO
95001565	CLROBO.C	38068	ROVERETO

LC Italy
TN Italy

Copia del presente certificato deve essere conservata presso i luoghi di produzione sopra elencati.

Copy of this certificate must be available at the manufacturing places listed above

Norme / Specifiche tecniche

Prodotto/i conforme/i alle Norme/Specifiche tecniche:

EN 60598-1:2015
EN 60598-2-3:2003 + A1:2011
IEC/TR 62778:2014
EN 62493:2015
Limitazioni ENEC all. B
Prodotti conformi agli obiettivi di sicurezza della Direttiva B.T.
2014/35/UE (Allegato I).

Standards / Technical specifications

Product/s complying to Standards/Technical specifications:

EN 60598-1:2015
EN 60598-2-3:2003 + A1:2011
IEC/TR 62778:2014
EN 62493:2015
ENEC Limitation encl. B
Products meeting the safety objectives of Low Voltage Directive
2014/35/EU (Annex I).

Rapporti | Test Reports

AI18-0028064-01; AI18-0024708-01

Caratteristiche tecniche | Technical characteristics

Tensione nominale / Rated voltage	220-240V
Tipo di installazione / Type of installation	sospensione-testa palo / suspension-on a post top
Classificazione del materiale del piano di appoggio / Classification according to material of supporting surface	normalmente infiammabile / normally flammable
Classe di isolamento / Degree of protection (class)	II
Serie / Series	EP445
Gruppo di rischio / Risk group	RG0 a una distanza di 350cm / RG0 at 350cm distance (*)

Articoli (con dettagli) | Articles (with details)

AR.S0069E

Marca / Trade mark	THORN
N.lampade/Pn / No.lamps/Rw	12 LED / max 25W
Attacco lamp./tipo / Lamp cap/type	LED
Rif. di tipo / Type ref.	EP445 12L70
Rif. a cat. / Cat. ref.	06EPXABCDE
IP /	66
Gruppo di rischio / Risk group	Distanza di soglia / threshold distance 280cm

AR.S0069F

Marca / Trade mark **THORN**

N.lampade/Pn | No.lamps/Rw **16 LED / max 33W**
Attacco lamp./tipo | Lamp cap/type **LED**
Rif. di tipo | Type ref. **EP445 16L70**
Rif. a cat. | Cat. ref. **06EPXABCDEF**
IP | **66**
Gruppo di rischio | Risk group **Distanza di soglia / threshold distance 280cm**

AR.S0069G

Marca | Trade mark **THORN**
N.lampade/Pn | No.lamps/Rw **24 LED / max 50W**
Attacco lamp./tipo | Lamp cap/type **LED**
Rif. di tipo | Type ref. **EP445 24L70**
Rif. a cat. | Cat. ref. **06EPXABCDEF**
IP | **66**
Gruppo di rischio | Risk group **Distanza di soglia / threshold distance 280cm**

AR.S0069H

Marca | Trade mark **THORN**
N.lampade/Pn | No.lamps/Rw **36 LED / max 74W**
Attacco lamp./tipo | Lamp cap/type **LED**
Rif. di tipo | Type ref. **EP445 36L70**
Rif. a cat. | Cat. ref. **06EPXABCDEF**
IP | **66**
Gruppo di rischio | Risk group **Distanza di soglia / threshold distance 280cm**

Ulteriori informazioni | Additional Information

(*) Distanza richiesta dal costruttore

Descrizione della serie EP445

06EPX: identifica il modello => EP445
06EP3: identifica l'installazione a sospensione
06EP1: identifica l'installazione a testa palo

A: Identifica il numero di LED => B2: 12 LED - B6: 16 LED - C4: 24 LED - D6: 36 LED
B: Identifica la corrente di pilotaggio dei LED => 0: 700mA - 3: 350mA - 5: 525mA
C: Identifica la temperatura di colore dei LED => 0: 4000K - 9: 3000K - 1: 2200K
D: Identifica il tipo di ottica => 30: ST-01 - 31: LA-01 - 32: ME-01 - 33: ME-02 - 34: AP-01_SX - 35: RS-01 -
36: AP-01_DX - 37: LT-6 - 38: LT-5 - 39: SO-01 - 40: MB-01 - 89: LT-S2 - 76: F&B 12 + 12 (ST-01 + LA-01)
- 77 : F & B 12 + 24 (ST-01 + LA-01) - 79: (LA-01 + LA-01 + CONFORT GLASS)
E: Identifica il colore dell'apparecchio di illuminazione
F: Identifica il tipo di cablaggio => HM3: cablaggio autoapprendimento ALVIT
HM4: cablaggio programmabile
HF1: cablaggio per onde convogliate REVERBERI
HH: cablaggio 1-10V
HL: cablaggio DALI

(*) Distance requested by the manufacturer

Description of the EP445 series

06EPX: Identifies the the model => EP445
06EP3: Identifies the suspension installation
06EP1: Identifies the installation on a post top

A: Identifies the number of LED => B2: 12 LED - B6: 16 LED - C4: 24 LED - D6: 36 LED
B: Identifies the driving current of the LED => 0: 700mA - 3: 350mA - 5: 525mA
C: Identifies the color temperature of the LED => 0: 4000K - 9: 3000K - 1: 2200K
D: Identifies the type of optics => 30: ST-01 - 31: LA-01 - 32: ME-01 - 33: ME-02 - 34: AP-01_SX - 35: RS-01 -
36: AP-01_DX - 37: LT-6 - 38: LT-5 - 39: SO-01 - 40: MB-01 - 89: LT-S2 - 76: F&B 12 + 12 (ST-01 + LA-01)
- 77: F & B 12 + 24 (ST-01 + LA-01) - 79: (LA-01 + LA-01 + CONFORT GLASS)
E: Identifies the color of the luminaire
F: Identifies the type of wiring => HM3: self-learning wiring ALVIT
HM4: programmable wiring
HF1: wiring for power line communication REVERBERI
HH: wiring 1-10V
HL: DALI wiring

Componenti | Component List



IMQ S.p.A. - Società con Socio Unico
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Rea Milano 1595884
Registro Imprese Milano 12898410159
C.F./P.I. 12898410159
Capitale Sociale €4.000.000

CA04.09521

SN.S00184

Vedere apposito elenco /See relevant annex

Emesso il | Issued on **2018-06-29**

Aggiornato il | Updated on ---

Sostituisce | Replaces ---

Diritti di concessione | Annual Fees

<i>SN.S00184</i>	BTS.040100.DD23	<i>Importo modelli ENEC - 0401 - Apparecchi di illuminazione e accessori ENEC models - 0401 - Luminaires</i>	1
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COMPONENT/MATERIAL LIST ANNEXED TO LICENCE No. CA04.09521 / TRF No. AI18-0028064-01
(To be attached to the relevant TRF and/or license)

COMPONENTS LIST FOR 36 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Electronic control gear for LED module	B/D	ALVIT	ALSMQ10070/1-10-IP	PRI 220-240V Iout 700mA max Uout 160V max 105W tc 85°C	IEC 61347-1 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B	ALVIT	ALSM2Q10570/1-10	PRI 220-240V Iout 700mA max Uout 170V max 105W tc 85°C	IEC 61347-1 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	OSRAM	OT 100/120...277/800 2DIMLT2 P	PRI 120-277V Iout 800mA max Uout 200V max 100W tc 85°C	IEC 61347-1 IEC 61347-2-13	ENEC 15
Electronic control gear for LED module	B/D	OSRAM	OT 90/170...240/1A0 4DIMLT2 E	PRI 220-240V Iout 1050mA max Uout 200V max 90W tc 90°C	IEC 61347-1 IEC 61347-2-13	ENEC 10
Electronic control gear for LED module	B/D	PHILIPS	Xi LP 110W 0.2-0.7A S1 230V C150 sXt (9290009646)	PRI 220-240V Iout 700mA max Uout 250V max 110W tc 85°C	IEC 61347-1 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	PHILIPS	Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt (9290016390)	PRI 202...254V Iout 700mA max Uout 300V max 110W tc 85°C	IEC 61347-1 IEC 61347-2-13	ENEC 05
Protection device	B	VOSSLOH	SPC 230/10K/I (142737)	100-277V/50-60Hz tc 80°C	IEC 61643-11	KEMA
Varistor	A	LITTELFUSE	TMOV20RP230E	10 kV	IEC 61051-1 IEC 61051-2-2 IEC 61051-2	VDE
Resistors High Voltage	B	VISHAY	VR37	2,2 Mohm 10kV	IEC 60065, clause 14.1	VDE
Internal wiring	A	CAVEL	FFV	1x0,75mm ² 300/300V	Tested acc. to IEC 60598-1 clause 5	VDE

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COMPONENTS LIST FOR 36 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Connector	A	3M	UY2	0,9±0,4mm ² 150V	Tested acc. to IEC 60.598-1 clause 13: 15	Tested by IMQ
LED module	B	Cariboni Group	600001512C	36 XP-G3 4000K 74W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module	B	Cariboni Group	600001522C	36 XP-G3 3000K 74W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module	B	Cariboni Group	600001558C	36 XP-G3 2200K 74W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
Electronic control board	B	REVERBERI	LPL01-AL-00	100-240V 165W	IEC 60950	Tested by IMQ
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001510C	12 XP-G3 4000K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001520C	12 XP-G3 3000K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001556C	12 XP-G3 2200K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001511C	24 XP-G3 4000K 50W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001521C	24 XP-G3 3000K 50W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001557C	24 XP-G3 2200K 50W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
Internal connector	A	WAGO	873-902 873-903	400V 6A	IEC60998-2-2	KEMA
Connecting device	A	WIELAND	ST18/4	380V 16A	IEC 60998-2-2	VDE
Internal connector	A/C	BM	BM9200	400V 2,5A	IEC 60998-1 IEC 60998-2-1	ENEC 03
Knife switch	A	EMC	M26N	400V 20A T120	IEC 60598-1	IMQ

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COMPONENTS LIST FOR 24 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Electronic control gear for LED module	B	ALVIT	ALSM6070/1-10-IP	PRI 220-240V Iout 700mA max Uout 110V SELV max 63W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	ALVIT	ALSM2Q5070/1-10	PRI 220-240V Iout 700mA max Uout 85V SELV max 53,2W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	OSRAM	OT 100/120...277/800 2DIMLT2 P	PRI 120-277V Iout 800mA max Uout 200V max 100W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 15
Electronic control gear for LED module	B/D	OSRAM	OT 60/170...240/1A0 4DIMLT2 E	PRI 220-240V Iout 1050mA max Uout 120V SELV max 60W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 10
Electronic control gear for LED module	B/D	PHILIPS	Xi LP 70W 0.2-0.7A S1 230V C150 sXt (9290009642)	PRI 220-240V Iout 700mA max Uout 170V max 70W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	PHILIPS	Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt (9290014084)	PRI 220-240V Iout 700mA max Uout 220V max 75W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Protection device	B	VOSSLOH	SPC 230/10K/I (142737)	100-277V/50-60Hz tc 80°C	IEC 61643-11	KEMA
Varistor	A	LITTELFUSE	TMOV20RP230 E	10 kV	IEC 61051-1 IEC 61051-2-2 IEC 61051-2	VDE
Resistors High Voltage	B	VISHAY	VR37	2,2 Mohm 10kV	IEC 60065, clause 14.1	VDE
Internal wiring	A	CAVEL	FFV	1x0,75mm ² 300/300V	Tested acc. to IEC 60598-1 clause 5	VDE

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(To be attached to the relevant TRF and/or license)

COMPONENTS LIST FOR 24 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Connector	A	3M	UY2	0,9±0,4mm ² 150V	Tested acc. to IEC 60.598-1 clause 13: 15	Tested by IMQ
LED module	B	Cariboni Group	600001511C	24 XP-G3 4000K 50W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module	B	Cariboni Group	600001521C	24 XP-G3 3000K 50W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module	B	Cariboni Group	600001557C	24 XP-G3 2200K 50W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
Electronic control board	B	REVERBERI	LPL01-AL-00	100-240V 165W	IEC 60950	Tested by IMQ
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001510C	12 XP-G3 4000K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001520C	12 XP-G3 3000K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
LED module (only with optical F&B and COMFORT)	B	Cariboni Group	600001556C	12 XP-G3 2200K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S000O5)
Internal connector	A	WAGO	873-902 873-903	400V 6A	IEC60998-2-2	KEMA
Connecting device	A	WIELAND	ST18/4	380V 16A	IEC 60998-2-2	VDE
Internal connector	A/C	BM	BM9200	400V 2,5A	IEC 60998-1 IEC 60998-2-1	ENEC 03
Knife switch	A	EMC	M26N	400V 20A T120	IEC 60598-1	IMQ

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COMPONENTS LIST FOR 16 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Electronic control gear for LED module	B	ALVIT	ALSM4570/1-10-IP	PRI 220-240V Iout 700mA max Uout 85V SELV max 48W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	ALVIT	ALSM2Q5070/1-10	PRI 220-240V Iout 700mA max Uout 85V SELV max 53,2W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	OSRAM	OT 50/120...277/80 0 2DIMLT2 P	PRI 120-277V Iout 800mA max Uout 120V SELV max 50W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 15
Electronic control gear for LED module	B/D	OSRAM	OT 40/120...277/1 A0 4DIMLT2 E	PRI 220-240V Iout 1050mA max Uout 60V SELV max 40W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 10
Electronic control gear for LED module	B/D	PHILIPS	Xi LP 40W 0.2-0.7A S1 230V C175 sXt (9290009307)	PRI 220-240V Iout 700mA max Uout 90V SELV max 40W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	PHILIPS	Xi FP 40W 0.2-0.7A SNLDAE 230V C175 sXt (9290009892)	PRI 220-240V Iout 700mA max Uout 100V SELV max 40W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Protection device	B	VOSSLOH	SPC 230/10K/I (142737)	100-277V/50-60Hz tc 80°C	IEC 61643-11	KEMA
Varistor	A	LITTELFUSE	TMOV20RP230 E	10 kV	IEC 61051-1 IEC 61051-2-2 IEC 61051-2	VDE
Resistors High Voltage	B	VISHAY	VR37	2,2 Mohm 10kV	IEC 60065, clause 14.1	VDE
Internal wiring	A	CAVEL	FFV	1x0,75mm ² 300/300V	Tested acc. to IEC 60598-1 clause 5	VDE

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COMPONENTS LIST FOR 16 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Internal connector	A	WAGO	873-902 873-903	400V 6A	IEC60998-2-2	KEMA
Connector	A	3M	UY2	0,9±0,4mm ² 150V	Tested acc. to IEC 60.598-1 clause 13: 15	Tested by IMQ
LED module	B	Cariboni Group	600001446C	16 XP-G3 4000K 33W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S00005)
LED module	B	Cariboni Group	600001447C	16 XP-G3 3000K 33W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S00005)
LED module	B	Cariboni Group	600001559C	16 XP-G3 2200K 33W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S00005)
Electronic control board	B	REVERBERI	LPL01-AL-00	100-240V 165W	IEC 60950	Tested by IMQ
Connecting device	A	WIELAND	ST18/4	380V 16A	IEC 60998-2-2	VDE
Internal connector	A/C	BM	BM9200	400V 2,5A	IEC 60998-1 IEC 60998-2-1	ENEC 03
Knife switch	A	EMC	M26N	400V 20A T120	IEC 60598-1	IMQ

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C – Integrated component/material tested together with the appliance

D – Alternative component/material

COMPONENT/MATERIAL LIST ANNEXED TO LICENCE No. CA04.09521 / TRF No. AI18-0028064-01
(To be attached to the relevant TRF and/or license)

COMPONENTS LIST FOR 12 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Electronic control gear for LED module	B	ALVIT	ALSM4570/1-10-IP	PRI 220-240V Iout 700mA max Uout 85V SELV max 48W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	ALVIT	ALSM2Q5070/1-10	PRI 220-240V Iout 700mA max Uout 85V SELV max 53,2W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	OSRAM	OT 50/120...277/80 0 2DIMLT2 P	PRI 120-277V Iout 800mA max Uout 120V SELV max 50W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 15
Electronic control gear for LED module	B/D	OSRAM	OT 40/120...277/1 A0 4DIMLT2 E	PRI 220-240V Iout 1050mA max Uout 60V SELV max 40W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 10
Electronic control gear for LED module	B/D	PHILIPS	Xi LP 40W 0.2-0.7A S1 230V C175 sXt (9290009307)	PRI 220-240V Iout 700mA max Uout 90V SELV max 40W tc 80°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Electronic control gear for LED module	B/D	PHILIPS	Xi FP 40W 0.2-0.7A SNLDAE 230V C175 sXt (9290009892)	PRI 220-240V Iout 700mA max Uout 100V SELV max 40W tc 85°C	IEC 61347-1+A1+A2 IEC 61347-2-13	ENEC 05
Protection device	B	VOSSLOH	SPC 230/10K/I (142737)	100-277V/50-60Hz tc 80°C	IEC 61643-11	KEMA
Varistor	A	LITTELFUSE	TMOV20RP230 E	10 kV	IEC 61051-1 IEC 61051-2-2 IEC 61051-2	VDE
Resistors High Voltage	B	VISHAY	VR37	2,2 Mohm 10kV	IEC 60065, clause 14.1	VDE
Internal wiring	A	CAVEL	FFV	1x0,75mm ² 300/300V	Tested acc. to IEC 60598-1 clause 5	VDE

(*) These columns are filled in by IMQ. Queste colonne sono compilate a cura dell'IMQ.

(**) CSv: Certificate under Surveillance. CSv: Certificato di sorveglianza

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(*) Each Component / Material is signed by a letter having the following meaning

A – Approved component/material replaceable with another one, also certified, with equivalent characteristics

B – The component/material is replaceable if authorised by the Test House

C – Integrated component/material tested together with the appliance

D – Alternative component/material

COMPONENT/MATERIAL LIST ANNEXED TO LICENCE No. CA04.09521 / TRF No. AI18-0028064-01
(To be attached to the relevant TRF and/or license)

COMPONENTS LIST FOR 12 LED

Type of component or material	Letter (*)	Manufacturer Trademark	Type Model	Technical data	Complies with the standard(s)	Mark(s) of conformity
Connector	A	3M	UY2	0,9±0,4mm ² 150V	Tested acc. to IEC 60.598-1 clause 13: 15	Tested by IMQ
LED module	B	Cariboni Group	600001510C	12 XP-G3 4000K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S00005)
LED module	B	Cariboni Group	600001520C	12 XP-G3 3000K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S00005)
LED module	B	Cariboni Group	600001556C	12 XP-G3 2200K 25W 700mA max	IEC 62031+A1+A2	AUT. IMQ (SN.S00005)
Electronic control board	B	REVERBERI	LPL01-AL-00	100-240V 165W	IEC 60950	Tested by IMQ
Knife switch	A	EMC	M26N	400V 20A T120	IEC 60598-1	IMQ
Connecting device	A	WIELAND	ST18/4	380V 16A	IEC 60998-2-2	VDE
Internal connector	A	WAGO	873-902 873-903	400V 6A	IEC60998-2-2	KEMA
Internal connector	A/C	BM	BM9200	400V 2,5A	IEC 60998-1 IEC 60998-2-1	ENEC 03

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