DECLARACIÓN JURADA DE CONFORMIDAD (DJC)

Res. S.I. y C. N° 236/24 y complementarias

Nro.: LP800Bi

Información del Fabricante o Importador:

- **Razón Social:** DEXEL SRL
- **C.U.I.T. N°**: 30601770039
- **Nombre Comercial o Marca Registrada:** LITEMONS/ GODOX
- **Domicilio Legal:** Avenida Lisandro de la Torre 2473 - CABA
- **Domicilio de la planta de producción o del depósito del importador:** ------
- **Teléfono:** 11 7079-3101 CEL. 54911 35054907
- **Correo Electrónico:** info@dexel.com

Representante Autorizado (si corresponde):

- **Nombre y Apellido / Razón Social:** ---
- **Domicilio Legal:** ---
- **C.U.I.T. N°:** ---

Información del Producto *(por producto o familia de productos):PANEL LED BI COLOR (* Bi-Color LED Light Panel)

- **Código de Identificación Único del Producto:** Remitirse a modelos
- **Fabricante/Importador:** DEXEL SRL
- **Identificación del producto (marca, modelo, características técnicas):** Marca GODOX, LITEMONS / Modelo LP800Bi / Especificaciones 100-240Vca 50/60Hz 85 W Clase II ta: 40°

Normas y Evaluación de la Conformidad:

- **Reglamento/s Aplicable/s:** Resol. S.I. y C. N° 16/2025 (Seguridad Eléctrica)
- **Norma/s Técnica/s:** EN 60598-2-4:2018, EN IEC 60598-1:2021+A11:2022
- **Nro. de Certificado:** SZCR2511005240LMV
- **Esquema según ISO/IEC 17067:** Esquema 2
- **Fecha de Emisión: 13/3/2026**
- **Fecha de Última Vigilancia: ---**
- **Fecha Próxima Vigilancia: 13/3/2028**
- **Datos del OEC Interviniente:** SGS-CSTC Standards Technical Services Co., Ltd.

Otros Datos:

- **Enlace a la copia de la Declaración de la Conformidad en Internet:** *Si está disponible, incluir el enlace al documento en línea*

Responsabilidad y Sanciones

La presente **Declaración Jurada de la Conformidad (DJC)** se emite en total conformidad con el **Reglamento Técnico de "**Seguridad Eléctrica**"**, aprobado por **Resolución/es** S.I. y C. N° 16/2025 de la **SECRETARÍA DE INDUSTRIA Y COMERCIO**, asumiendo la responsabilidad directa por los datos declarados, por la conformidad del producto y por la conservación de la DJC, así como la totalidad de la documentación respaldatoria de los datos aquí denunciados, durante diez años después de la introducción del producto en el mercado de la República Argentina.
La inexactitud, falsedad u omisión de carácter esencial de cualquier dato o información en esta Declaración, o la falta de presentación de la documentación requerida por la Autoridad, será pasible de las sanciones previstas en la **Ley N° 24.240** y sus modificatorias, así como en el **Decreto N° 274/2019**, sin perjuicio de la responsabilidad penal, civil o administrativa aplicable, conforme al **Artículo 110 del Reglamento de Procedimientos Administrativos, Decreto N° 1.759/72 – T.O. 2017**.

Lugar y Fecha: BUENOS AIRES, 3/11/2026

Firma:

Marcelo Ruiz Diaz

Marcelo Ruiz Diaz
DNI 13222078
Socio Gerente
Dexel SRL

**Si en el marco de un Reglamento Técnico, se requiere otra información no contemplada en los puntos precedentes, se deberá añadir la misma a la presente DJC.*

COMPLIANCE

VERIFICATION OF COMPLIANCE

Verification No.:	SZCR2511005240LMV
Applicant:	GODOX Photo Equipment Co.,Ltd.
Address of Applicant:	4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China
Manufacturer:	GODOX Photo Equipment Co.,Ltd.
Address of Manufacturer:	4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China
Product Description:	LITEMONS Bi-Color LED Light Panel
Model No.:	LP800Bi
Standard Required:	EN 61000-3-3: 2013 +A1:2019 +A2:2021, EN IEC 55015: 2019+A11:2020, EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024, EN IEC 61547: 2023, EN 301 489-1 V2.2.3, EN 301 489-17 V3.3.1, EN 300 328 V2.2.2, EN 62479:2010, EN IEC 60598-2-17:2018, EN 60598-2-4:2018, EN IEC 60598-1:2021+A11:2022
Test Report Number(s):	SZCR251100524001, SZCR251100524002, SZCR251100524003, SZCR251100524004, GZES251102238401.

Conclusion

Based on a review of the test report(s) detailed above, this apparatus meets the requirements of above standards. The product is in conformity with the essential requirements of Article 3.1 (a) the protection of the health and with/without safety, 3.1 (b) an adequate level of electromagnetic compatibility and 3.2 effective use of the spectrum of 2014/53/EU.

The CE mark can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

SGS-CSTC STANDARDS TECHNICAL SERVICES CO., LTD. SHENZHEN BRANCH 电子电气实验室

Keny Xu

Laboratory Manager 2026-03-13

SGS-CSTC Standards Technical Services Co., Ltd.

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SGS-CSTC Standards Technical Services Co., Ltd.
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www.sgsgroup.com.cn
Member of the SGS Group (SGS SA)

Test Report issued under the responsibility of:

TEST REPORT
IEC 60598-2-17
Luminaires
Part 2: Particular requirements.
Section 17: Luminaires for stage lighting, television and film studios (outdoor and indoor)

Report Number. ..... :	GZES251102238401
Date of issue..... :	2026-03-13
Total number of pages ..... :	44
Name of Testing Laboratory preparing the Report ..... :	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
Applicant's name..... :	GODOX Photo Equipment Co., Ltd.
Address..... :	4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen, 518103, China
Test specification:	
Standard ..... :	IEC 60598-2-17:2017 used in conjunction with IEC 60598-1:2020
Test procedure ..... :	SGS-CSTC
Non-standard test method ..... :	N/A
TRF template used ..... :	IECEE OD-2020-F1:2021, Ed.1.4
Test Report Form No...... :	IEC60598_2_17G
Test Report Form(s) Originator.... :	Intertek Semko AB
Master TRF..... :	Dated 2022-06-10

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This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Disclaimer: This document is controlled and has been released electronically.
Only the version on the IECEE Website is the current document version

Test item description .....:	LITEMONS Bi-Color LED Light Panel
Trade Mark(s) .....:	LITEMONS
Manufacturer .....:	Same as applicant
Model/Type reference .....:	LP800Bi
Ratings .....:	AC 100-240 V; 50/60 Hz; 85 W; Class II; ta: 40 °C;

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☒	**Testing Laboratory:**	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch	
Testing location/ address .....:		198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China	
Tested by (name, function, signature) .....:		Freddy Chen/ Project Engineer	Freddy chen
Approved by (name, function, signature) ..:		Ivory Lu/ Reviewer	Ivory Lu
☐	**Testing procedure: CTF Stage 1:**	N/A	
Testing location/ address .....:			
Tested by (name, function, signature) .....:			
Approved by (name, function, signature) ..:			
☐	**Testing procedure: CTF Stage 2:**	N/A	
Testing location/ address .....:			
Tested by (name + signature) .....:			
Witnessed by (name, function, signature) .:			
Approved by (name, function, signature) ..:			
☐	**Testing procedure: CTF Stage 3:**	N/A	
☐	**Testing procedure: CTF Stage 4:**	N/A	
Testing location/ address .....:			
Tested by (name, function, signature) .....:			
Witnessed by (name, function, signature) .:			
Approved by (name, function, signature) ..:			
Supervised by (name, function, signature) :			

List of Attachments (including a total number of pages in each attachment):

Attachment 1: European Group differences and national differences of IEC 60598-2-17 and IEC 60598-1 (2 pages)

Attachment 2: Additional requirements of EN 60598-2-4: 2018 (3 pages).

Attachment 3: Additional requirements of EN IEC 61347-2-13 used in conjunction with EN IEC 61347-1 for LED driver (16 pages).

Attachment 4: Additional requirements of EN IEC 61347-2-11 used with EN 61347-1 (13 pages).

Attachment 5: Additional requirement of EN IEC 62031 for LED module (5 pages).

Attachment 6: Additional test for IEC TR 62778 (2 pages).

Attachment 7: Photo documentations (15 pages).

Summary of testing:

1. The submitted appliance was found to be in compliance with the standard EN IEC 60598-2-17: 2018, EN 60598-2-4:2018, EN IEC 60598-1: 2021 + A11: 2022.
2. The submitted appliance with lighting source was found to be in compliance with the standard EN 62493: 2015 and EN 62493:2015+A1:2022 according to the clause 4.2.2.
3. The LED module has been tested according to standard EN IEC 62031: 2020 + A11: 2021 and the results are positive.
4. The LED driver has been evaluated according to EN IEC 61347-1: 2024, EN IEC 61347-2-13: 2024, the result is positive.
5. The controller has been evaluated according to EN IEC 61347-1: 2024, EN IEC 61347-2-11: 2024, the result is positive.
6. The switch of LED driver has been evaluated according to Endurance test of EN IEC 61058-1: 2018, the result is positive.
7. Retinal blue light hazard measurements have been tested according to Technical report IEC/TR 62778: 2014 (Ed 2). According to the test results, the LED light source in product belongs to RG0 and therefore no markings are required on the product or in the instructions.
8. Model LP800Bi was performed full test.

Tests performed (name of test and test clause):	**Testing location:**
The luminaires were tested according to EN IEC 60598-2-17: 2018, EN 60598-2-4:2018, EN IEC 60598-1: 2021 + A11: 2022.	198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China

Summary of compliance with National Differences (List of countries addressed):

EU Group and the United Kingdom differences were considered.

☒ The product fulfils the requirements of EN IEC 60598-2-17: 2018, EN IEC 60598-1: 2021 + A11: 2022.

Use of uncertainty of measurement for decisions on conformity (decision rule):

☐ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

☐ Other:(to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:
The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.
IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Location: The label was affixed on the enclosure



Location: The label was affixed on the tripod

1. The height of WEEE symbol is not less than 7 mm;
2. The height of other graphical symbols, CE logo and UKCA logo are not less than 5 mm;
3. The height of letters and numerals is not less than 2 mm;
4. The minimum height of '' symbol shall be 15 mm;
5. According to the standard, warning and text required by the standard should be written in the official language(s) of the country in which the appliance is to be sold. The applicant should ensure that the samples in future production fulfill the requirement;
6. As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

Test item particulars .....:	
Classification of installation and use.....:	Portable
Supply Connection .....:	Non-detachable cord fitted with a plug
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing .....:	
Date of receipt of test item.....:	2025-12-09
Date (s) of performance of tests .....:	2025-12-09 to 2025-12-30

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

Clause numbers between brackets refer to clauses in IEC 60598-1.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	☐ **Yes** ☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)..... : Same as applicant
General product information and other remarks: LED Luminaire connected to the supply via non-detachable cord fitted with a plug, non-user replaceable LED, Class II.

IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
17.4 (0)	**GENERAL TEST REQUIREMENTS**		
17.4 (0.3)	More sections applicable .....:	Yes ☐ No ☒ Section/s:	—
17.4 (0.5)	Components	(see Annex 1)	—
17.4 (0.7)	**Information for luminaire design in light sources standards**		—
17.4 (0.7.2)	Light source safety standard .....:	EN IEC 62031	—
	Luminaire design in the light source safety standard		P
17.5 (2)	**CLASSIFICATION OF LUMINAIRES**		
17.5 (2.2)	Type of protection .....:	Class II	P
17.5 (2.3)	Degree of protection .....:	IP20	—
17.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces .....:	Yes ☒ No ☐	—
17.5 (2.5)	Luminaire for normal use .....:	Yes ☒ No ☐	—
	Luminaire for rough service .....:	Yes ☐ No ☒	—
17.6 (3)	**MARKING**		
17.6 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
17.6 (3.3)	Additional information		P
	Language of instructions	English	P
17.6 (3.3.1)	Combination luminaires		N/A
17.6 (3.3.2)	Nominal frequency in Hz		P
17.6 (3.3.3)	Operating temperature		N/A
17.6 (3.3.5)	Wiring diagram		N/A
17.6 (3.3.6)	Special conditions		N/A
17.6 (3.3.7)	Metal halide lamp luminaire – warning		N/A
17.6 (3.3.8)	Limitation for semi-luminaires		N/A
17.6 (3.3.9)	Power factor and supply current		P
17.6 (3.3.10)	Suitability for use indoors		N/A
17.6 (3.3.11)	Luminaires with remote control		N/A
17.6 (3.3.12)	Clip-mounted luminaire – warning		N/A

IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
17.6 (3.3.13)	Specifications of protective shields		N/A
17.6 (3.3.14)	Symbol for nature of supply		P
17.6 (3.3.15)	Rated current of socket outlet		N/A
17.6 (3.3.16)	Rough service luminaire		N/A
17.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	type Y	P
17.6 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
17.6 (3.3.19)	Protective conductor current in instruction if applicable		N/A
17.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
17.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		P
17.6 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
17.6 (3.3.23)	Luminaires without control gear provided with necessary information for selection of appropriate component		N/A
17.6 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
17.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided		N/A
17.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided		N/A
17.6 (3.4)	Test with water	15 s	P
	Test with hexane	15 s	P
	Legible after test		P
	Label attached		P
17.6.1 (-)	If luminaire design imposes restriction of use the luminaire is marked with		N/A
	a) Indication of the "top"		N/A
	b) Designed position or range of angle		N/A
	c) Mounting arrangements		N/A
17.6.2 (-)	Warnings if replaceable light sources		N/A
17.6.3 (-)	Maximum ambient temperature t_a	40 °C	P

IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
17.6.4 (-)	Minimum distances from flammable materials		N/A
17.6.5 (-)	Warning against opening immediately if applicable		N/A
17.6.6 (-)	Highest exterior surface temperature if exceeds 70 °C		P
17.6.7 (-)	Instruction leaflets contain warnings		P
	a) Visibly damaged shields shall be changed		N/A
	b) Damaged or thermally deformed lamp shall be changed		N/A
	c) Only intended for professional use		P
17.7 (4)	**CONSTRUCTION**		
17.7 (4.2)	Components replaceable without difficulty		P
17.7 (4.3)	Wireways smooth and free from sharp edges		P
17.7 (4.4)	**Lamp holders**		N/A
17.7 (4.4.1)	Integral lamp holder		N/A
17.7 (4.4.2)	Wiring connection		N/A
17.7 (4.4.3)	Lamp holder for end-to-end mounting		N/A
17.7 (4.4.4)	Positioning		N/A
	- pressure test (N) .....:		—
	After test the lamp holder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lamp holder the lamp holder has not moved from its position and show no permanent deformation		N/A
	- bending test (N) .....:		—
	After test the lamp holder has not moved from its position and show no permanent deformation		N/A
17.7 (4.4.5)	Peak pulse voltage		N/A
17.7 (4.4.6)	Centre contact		N/A
17.7 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
17.7 (4.4.8)	Lamp connectors		N/A
17.7 (4.4.9)	Caps and bases correctly used		N/A
17.7 (4.4.10)	Light source for lamp holder or connection according IEC 60061 not connected another way		N/A
17.7 (4.5)	**Starter holders**		N/A
	Starter holder in luminaires other than class II		N/A

IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
	Starter holder class II construction		N/A
17.7 (4.6)	**Terminal blocks**		N/A
	Tails		N/A
	Unsecured blocks		N/A
17.7 (4.7)	**Terminals and supply connections**		P
17.7 (4.7.1)	Contact to metal parts		N/A
17.7 (4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
17.7 (4.7.3)	Terminals for supply conductors		N/A
17.7 (4.7.3.1)	Welded method and material		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.6.2		N/A
	- electrical test according to 15.6.3		N/A
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		N/A
17.7 (4.7.4)	Terminals other than supply connection		P
17.7 (4.7.5)	Heat-resistant wiring/sleeves		N/A
17.7 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
17.7 (4.8)	**Switches**		P
	- adequate rating		P
	- adequate fixing		P
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		P
17.7 (4.9)	**Insulating lining and sleeves**		P
17.7 (4.9.1)	Retainment		P
	Method of fixing.....:	Heat shrinkage	P
17.7 (4.9.2)	Insulated linings and sleeves:		P
	Resistant to a temperature > 20 °C to the wire temperature or		P
	a) & c) Insulation resistance and electric strength		P

IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
	b) Ageing test. Temperature (°C).....:		N/A
17.7 (4.10)	**Double or reinforced insulation**		P
17.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		P
	Safe installation fixed luminaires		P
	Capacitors and switches		N/A
17.7 (4.10.2)	Assembly gaps:		N/A
	- not coincidental		N/A
	- no straight access with test probe		N/A
17.7 (4.10.3)	Retainment of insulation:		P
	- fixed		P
	- unable to be replaced; luminaire inoperative		P
	- sleeves retained in position		P
	- lining in lamp holder		N/A
17.7 (4.10.4)	Protective impedance device		N/A
	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor		N/A
	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)		N/A
	Capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.2 of IEC 60065		N/A
17.7 (4.11)	**Electrical connections and current-carrying parts**		**P**
17.7 (4.11.1)	Contact pressure		P
17.7 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
17.7 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A

IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
17.7 (4.11.4)	Material of current-carrying parts		P
17.7 (4.11.5)	No contact to wood or mounting surface		P
17.7 (4.11.6)	Electro-mechanical contact systems		N/A
17.7 (4.12)	**Screws and connections (mechanical) and glands**		**P**
17.7 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part.....:	0,5; Fixed enclosure	P
	Torque test: torque (Nm); part.....:	0,5; Fixed cord anchorage	P
	Torque test: torque (Nm); part.....:	2,5; Fixed mounting bracket	P
17.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
17.7 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm).....:		N/A
	- lamp holder; torque (Nm).....:		N/A
	- push-button switches; torque 0,8 Nm.....:		N/A
17.7 (4.12.5)	Screwed glands; force (Nm) .....:		N/A
17.7 (4.13)	**Mechanical strength**		**P**
17.7 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm).....:	For lamp cover: 0,5 Nm	P
	- other parts; energy (Nm).....:	Enclosure: 0,7 Nm	P
	1) live parts		P
	2) linings		N/A
	3) protection		P
	4) covers		P
17.7 (4.13.2)	Metal parts have adequate mechanical strength		P
17.7 (4.13.3)	Straight test finger		N/A
17.7 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
17.7 (4.13.6)	Tumbling barrel		N/A
17.7 (4.14)	**Suspensions, fixings and means of adjusting**		N/A
17.7 (4.14.1)	Mechanical load:		N/A
	A) four times the weight		N/A
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm) .....:		N/A
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm) .....:		N/A
	Metal rod. diameter (mm) .....:		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
17.7 (4.14.2)	Load to flexible cables		N/A
	Mass (kg) .....:		—
	Stress in conductors (N/mm²) .....:		N/A
	Mass (kg) of semi-luminaire .....:		N/A
	Bending moment (Nm) of semi-luminaire .....:		N/A
17.7 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles.....:		N/A
	- strands broken .....:		N/A
	- electric strength test afterwards		N/A
17.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
17.7 (4.14.5)	Guide pulleys		N/A
17.7 (4.14.6)	Strain on socket-outlets		N/A
17.7 (4.15)	**Flammable materials**		**P**
	- glow-wire test 650°C .....:	See Test Table 17.16 (13.3.2)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	- spacing ≥30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		N/A
	- electronic circuits exempted		N/A
17.7 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
17.7 (4.16)	**Luminaires for mounting on normally flammable surfaces**		**P**
	No lamp control gear .....:	(compliance with Section 12)	P
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
17.7 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
17.7 (4.16.2)	Thermal protection:		N/A
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
17.7 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
17.7 (4.17)	**Drain holes**		N/A
	Clearance at least 5 mm		N/A
17.7 (4.18)	**Resistance to corrosion**		P
17.7 (4.18.1)	- rust-resistance		N/A
17.7 (4.18.2)	- season cracking in copper		P
17.7 (4.18.3)	- corrosion of aluminium		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.7 (4.19)	Ignitors compatible with ballast		N/A
17.7 (4.20)	Rough service vibration		N/A
17.7 (4.21)	**Protective shield**		N/A
17.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
17.7 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
17.7 (4.21.3)	No direct path		N/A
17.7 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment.....:	See Test Table 17.16 (13.3.2)	N/A
17.7 (4.22)	Attachments to lamps not cause overheating or damage		N/A
17.7 (4.23)	Semi-luminaires comply Class II		N/A
17.7 (4.24)	**Photobiological hazards**		**P**
17.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
17.7 (4.24.2)	Retinal blue light hazard		P
	Class of risk group assessed according to IEC/TR 62778 .....:	RG0	—
	Luminaires with E_{thr}:		N/A
	a) Fixed luminaires		N/A
	- distance x m, borderline between RG1 and RG2 ..:		N/A
	- marking and instruction according 3.2.23		N/A
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778		N/A
17.7 (4.25)	**Mechanical hazard**		**P**
	No sharp point or edges		P
17.7 (4.26)	**Short-circuit protection**		N/A
17.7 (4.26.1)	Adequate means of uninsulated accessible SELV / PELV parts		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.7 (4.26.2)	Short-circuit test with test chain according 4.26.3:		N/A
	Supply source ES1 PSE		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
17.7 (4.27)	**Terminal blocks with integrated screwless protective earthing contacts**		N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		N/A
17.7 (4.28)	**Fixing of thermal sensing control**		N/A
	Not plug-in or easily replaceable type		N/A
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (°C) .....:		—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
17.7 (4.29)	**Luminaires with non-replaceable light source**		N/A
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		N/A
17.7 (4.30)	**Luminaires with non-user replaceable light source**		P
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		P
	At least one fixing means requiring use of tool		P
17.7 (4.31)	**Insulation between circuits**		P
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		P
17.7 (4.31.1)	SELV or PELV circuits		P
	Used SELV/PELV source		P
	Voltage ≤ ELV		P
	Insulating of SELV/PELV circuits from LV supply		P
	Insulating of SELV/PELV circuits from other non SELV/PELV circuits		N/A
	Insulating of SELV/PELV circuits from FELV		N/A
	Insulating of SELV/PELV circuits from other SELV/PELV circuits		N/A
	SELV/PELV circuits insulated from accessible parts according Table X.1		P
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Plugs and socket-outlets does not have protective conductor contact		N/A
17.7 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage ≤ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets have protective conductor contact		N/A
17.7 (4.31.3)	Other circuits		N/A
	Other circuits insulated from accessible parts according Table X.1		N/A
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part not cause an electric shock in case of an insulation fault		N/A
	- equipotential bonding in master/slave applications		N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
17.7 (4.32)	**Overvoltage protective devices**		N/A
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
17.7 (4.33)	**Luminaire powered via information technology communication cabling**		N/A
	Requirements for Class III luminaire		N/A
	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector		N/A
	Luminaire does not create any hazard from overvoltage	(see Annex 2)	N/A
17.7 (4.34)	**Electromagnetic fields (EMF)**		P
	No harmful electromagnetic fields	Refer to test report SZCR251100524004	P
17.7 (4.35)	**Protection against moving fan blades**		N/A
	Test with a standard test finger		N/A
	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire		N/A
	Blades rounded with radius ≥ 0.5 mm and:		N/A
	-hardness less than D60 Shore		N/A
	-peripheral speed less than 15 m/s		N/A
	-input power of fan ≤ 2 W at rated voltage		N/A
17.7 (4.36)	**Track-mounted luminaires**		N/A
	Test in accordance with Annex A of IEC60570:2003/AMD2:2019		N/A
17.7.1 (-)	Not possible to insert a lamp into a “live” lamp holder if applicable		N/A
17.7.2 (-)	Prevent immediate access to the lamp or marked according 17.6.5 if applicable		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.7.3 (-)	Retain particles of glass or quarts produced in the event of the lamp shattering if glass bulb lamp		N/A
	Comply with test 4.21.4 in IEC 60598-1 with 0,5 Nm		N/A
17.7.4 (-)	Bearing parts of hanger are capable to support six time the weight of the luminaire		N/A
	Non-combustible materials		N/A
	Parts of hanger carrying a proportion of the weight of the luminaire are capable to support six time the proportion of weight		N/A
	Connection between hanger and luminaire locked		N/A
	Test 1 h with six times the weight of the luminaire		N/A
17.7.5 (-)	Removable accessories cannot fall out of the luminaire from any position		N/A
17.7.6 (-)	If applicable a secondary suspension provided and passed the test		N/A
17.8 (11)	**CREEPAGE DISTANCES AND CLEARANCES**		
17.8 (11.2.1)	Impulse withstand category (Normal category II)	Category II ☒ Category III ☐	—
	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
17.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 17.8 (11.2) I	P
	Creepage distances for frequency over 30 kHz:		N/A
	- Controlgear marked with $\hat{U}_{OUT}$ and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 17.8 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 17.8 (11.2) II	N/A
17.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 17.8 (11.2) I	P
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P	See Test Table 17.8 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 17.8 (11.2) II	N/A
17.9 (7)	**PROVISION FOR EARTHING**		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.9 (7.2.1 + 7.2.3)	Accessible metal parts		N/A
	Metal parts in contact with supporting surface		N/A
	Resistance < 0,5 Ω.....:		N/A
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a grove		N/A
	Protective earth makes contact first		N/A
	Terminal blocks with integrated screwless protective earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		N/A
17.9 (7.2.2 + 7.2.3)	Protective earth continuity in joints, etc.		N/A
17.9 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
17.9 (7.2.5)	Protective earth terminal integral part of connector socket		N/A
17.9 (7.2.6)	Protective earth terminal adjacent to mains terminals		N/A
17.9 (7.2.7)	Electrolytic corrosion of the protective earth terminal		N/A
17.9 (7.2.8)	Material of protective earth terminal		N/A
	Contact surface bare metal		N/A
17.9 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
17.9 (7.2.11)	Protective earthing core coloured green-yellow		N/A
	Length of protective earthing conductor		N/A
17.9 (7.2.12)	PELV circuit connected to protective earth for functional purpose		N/A

17.10 (14)	**SCREW TERMINALS**		
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 3)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.10 (15)	**SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS**		
	Separately approved; component list.....:	(see Annex 1)	N/A
	Part of the luminaire .....:	(see Annex 4)	N/A
17.11 (5)	**EXTERNAL AND INTERNAL WIRING**		
17.11 (5.2)	**Supply connection and external wiring**		**P**
17.11 (5.2.1)	Means of connection.....:	Non-detachable cord fitted with a plug	P
	Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment		N/A
17.11 (5.2.2)	Type of cable.....:	H03VVH2-F	P
	Nominal cross-sectional area (mm²).....:	0,75	P
	Cables equal to IEC 60227 or IEC 60245		N/A
17.11 (5.2.3)	Type of attachment, X, Y or Z		P
17.11 (5.2.5)	Type Z not connected to screws		N/A
17.11 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
17.11 (5.2.7)	Cable entries through rigid material have rounded edges		P
17.11 (5.2.8)	Insulating bushings:		P
	- suitably fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- tubes or guards made of insulating material		P
17.11 (5.2.9)	Locking of screwed bushings		N/A
17.11 (5.2.10)	Cord anchorage:		P
	- covering protected from abrasion		P
	- clear how to be effective		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
17.11 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
17.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		P
17.11 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N) .....:	60 N	P
	- torque test: torque (Nm).....:	0,15	P
	- displacement ≤ 2 mm		P
	- no movement of conductors		P
	- no damage of cable or cord		P
	- function independent of electrical connection		P
17.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with maximum current of 2A:		N/A
	- Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC		N/A
	- Ordinary Class III luminaire supplied with PELV ≤12V RMS/30V DC		N/A
	- Other than ordinary Class III luminaire supplied with voltage ≤12V RMS/30V DC		N/A
	Pull test of 30N		N/A
17.11 (5.2.11)	External wiring passing into luminaire		P

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Clause	Requirement + Test	Result - Remark	Verdict
17.11 (5.2.12)	Looping-in terminals		N/A
17.11 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		P
17.11 (5.2.14)	Mains plug same protection		P
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
17.11 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)		N/A
17.11 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Appliance inlet or connector systems (IEC 61984)		N/A
17.11 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
17.11 (5.2.18)	Used plug in accordance with		P
	- IEC 60083		N/A
	- other standard		P
17.11 (5.3)	**Internal wiring**		**P**
17.11 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A).....:		N/A
	- temperatures.....:	(see Annex 2)	N/A
	Green-yellow for protective earth only		N/A
17.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm²) .....:	0,75	P
	Insulation thickness (mm) .....:	>0,6	P
	Extra insulation added where necessary		N/A
17.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		P
	Cross-sectional area (mm²) .....:	Min.26 AWG	P

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Clause	Requirement + Test	Result - Remark	Verdict
17.11 (5.3.1.3)	Double or reinforced insulation for class II		N/A
17.11 (5.3.1.4)	Conductors without insulation		N/A
17.11 (5.3.1.5)	SELV/PELV current-carrying parts		P
17.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
17.11 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		P
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		P
17.11 (5.3.3)	Insulating bushings:		P
	- suitable fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- cables with protective sheath		P
17.11 (5.3.4)	Joints and junctions effectively insulated		N/A
17.11 (5.3.5)	Strain on internal wiring		P
17.11 (5.3.6)	Wire carriers		N/A
17.11 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		P
17.11 (5.4)	**Test to determine suitability of conductors having a reduced cross-sectional area**		P
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	P
	No damage to luminaire wiring after test		P
17.11.1 (-)	Cross-sectional area - current (A) ..... : - area (mm²) ..... :	 <2,0 A 0,75 mm²	P
17.11.2 (-)	Plugs and sockets not interchangeable		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.12 (8)	**PROTECTION AGAINST ELECTRIC SHOCK**		
17.12 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		N/A
	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		P
	Double-ended high-pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
17.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position		P
17.12 (8.2.3.a)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible		N/A
	- required insulation from live parts in compliance with Table X.1		N/A
			N/A
	- glass protective shields not used as supplementary insulation		N/A
17.12 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth		N/A
17.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V).....:		N/A
	- voltage under load/ no-load DC (V).....:		N/A
	- interrupted DC voltage (V) .....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- touch current if applicable (mA) .....:		N/A
	One conductive part insulated if required		N/A
	Other than ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V).....:		N/A
	- voltage under load/ no-load DC (V).....:		N/A
	- interrupted DC voltage (V) .....:		N/A
	Class III luminaire only for connection to SELV/PELV		N/A
17.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V).....:		N/A
	- voltage under load/ no-load DC (V).....:		N/A
	Other than ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V).....:		N/A
	- voltage under load/ no-load DC (V).....:		N/A
	One pole insulated if required		N/A
17.12 (8.2.4)	Portable luminaire has protection independent of supporting surface		P
17.12 (8.2.5)	Compliance with the standard test finger or relevant probe		P
17.12 (8.2.6)	Covers reliably secured		N/A
17.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 µF does not exceed 50 V 1 min after disconnection		N/A
	Portable luminaire with capacitor > 0,1 µF (0.25) not exceed 34 V 1 s after disconnection	1,96	P
	Other luminaires with capacitor > 0,1 µF (0.25) with plug and track adaptors do not exceed 60 V 5 s after disconnection		N/A

17.13 (12)	**ENDURANCE TEST AND THERMAL TEST**		
17.13 (12.2)	**Selection of lamps and ballasts**		—
	Lamp used according to Annex B	(Lamp used see Annex 2)	—
	Control gear if separate and not supplied	(Control gear used see Annex 2)	—
17.13 (12.3)	**Endurance test**		**P**

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Clause	Requirement + Test	Result - Remark	Verdict
	a) mounting-position .....:	As in normal use	—
	b) test temperature (°C).....:	50	—
	c) total duration (h) .....:	240	—
	d) supply voltage (V).....:	264	—
	d) if not equipped with control gear, constant voltage/current (V) or (A) .....:	—	—
17.13 (12.3.1d)	d) Class III luminaires powered via information technology communication cable:		N/A
	- voltage under normal operation (V).....:		—
	- voltage under abnormal operation (V).....:		—
	e) luminaire ceases to operate		—
	f) luminaire with constant light output function		N/A
17.13 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
17.13 (12.4)	**Thermal test (normal operation)**	(see Annex 2)	P
17.13 (12.5)	**Thermal test (abnormal operation)**	(see Annex 2)	P
17.13 (12.6)	**Thermal test (failed lamp control gear condition):**		N/A
17.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A) .....:		—
	- case of abnormal conditions .....:		—
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un ....:		—
	- measured mounting surface temperature (°C) at 1,1 Un .....:		N/A
	- calculated mounting surface temperature (°C) .....:		N/A
	- track-mounted luminaires		N/A
17.13 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions .....:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C) .....:		N/A
	- track-mounted luminaires		N/A
17.13 (12.7)	**Thermal test (failed lamp control gear in plastic luminaires):**		N/A
17.13 (12.7.1)	Luminaire without temperature sensing control		N/A
17.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W .....:		—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions .....:		—
	- Ballast failure at supply voltage (V) .....:		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex W:		N/A
	- case of abnormal conditions .....:		—
	- measured winding temperature (°C): at 1,1 Un .....:		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un .....:		—
	- calculated temperature of fixing point/exposed part (°C) .....:		—
	Ball-pressure test..... :	See Test Table 17.16 (13.2.1)	N/A
17.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions .....:		—
	- measured winding temperature (°C): at 1,1 Un .....:		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un .....:		—
	- calculated temperature of fixing point/exposed part (°C) .....:		—
	Ball-pressure test.....:	See Test Table 17.16 (13.2.1)	N/A
17.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions .....:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
17.13 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link.....:	Yes ☐ No ☐	—
	- manual reset cut-out.....:	Yes ☐ No ☐	—
	- auto reset cut-out .....:	Yes ☐ No ☐	—
	- case of abnormal conditions .....:		—
	- highest measured temperature of fixing point/ exposed part (°C): .....:		—
	Ball-pressure test:.....:	See Test Table 17.16 (13.2.1)	N/A
17.13.1 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) specified in 17.14		P
17.13.2 (-)	Exterior surface temperature	(see Annex 2)	P

17.14 (9)	**RESISTANCE TO DUST AND MOISTURE**		
17.14 (-)	If IP > IP 20 the order of tests as specified in clause 17.13		—
17.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP.....:	IP20	—
	- mounting position during test.....:	As normal use	—
	- fixing screws tightened; torque (Nm).....:	—	—
	- tests according to clauses .....:	9.2.0 of EN IEC 60598-1	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		N/A
	c.1) For luminaires without drain holes – no water entry		N/A
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire		N/A
	e) no contact with live parts (IP 2X)		P
	e) no entry into enclosure (IP 3X and IP 4X)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		N/A
17.14 (9.3)	Humidity test 48 h		P
17.15 (10)	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		
17.15 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø .....:	—	—
	Insulation resistance (MΩ):		
	SELV/PELV:		P
	- between current-carrying parts of different polarity:	>20 MΩ	P
	- between current-carrying parts and mounting surface .....:	>20 MΩ	P
	- between current-carrying parts and metal parts of the luminaire.....:	>20 MΩ	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts .....:		N/A
	- Insulation bushings as described in Section 5 .....:		N/A
	Other than SELV/PELV:		P
	- between live parts of different polarity.....:	>20 MΩ	P
	- between live parts and mounting surface.....:	>20 MΩ	P
	- between live parts and metal parts.....:	>20 MΩ	P
	- between live parts of different polarity through action of a switch.....:		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts .....:	>20 MΩ	P
	- Insulation bushings as described in Section 5 .....:	>20 MΩ	P
17.15 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test voltage (V):		P
	SELV/PELV:		P
	- between current-carrying parts of different polarity:	500 V	P
	- between current-carrying parts and mounting surface .....:	500 V	P
	- between current-carrying parts and metal parts of the luminaire.....:	500 V	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts .....:		N/A
	- Insulation bushings as described in Section 5 .....:		N/A
	Other than SELV/PELV:		P
	- between live parts of different polarity.....:	2960 V	P
	- between live parts and mounting surface .....:	2960 V	P
	- between live parts and metal parts.....:	2960 V	P
	- between live parts of different polarity through action of a switch.....:		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts .....:	2960 V	P
	- Insulation bushings as described in Section 5 .....:	1480 V	P
17.15 (10.3)	Touch current (mA).....:	0,085 mA	P
	Protective conductor current (mA).....:		N/A

17.16 (13)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		
17.16 (13.2.1)	Ball-pressure test.....:	See Test Table 17.16 (13.2.1)	P
17.16 (13.3.1)	Needle-flame test (10 s) .....:	See Test Table 17.16 (13.3.1)	P
17.16 (13.3.2)	Glow-wire test (650°C).....:	See Test Table 17.16 (13.3.2)	P
17.16 (13.4)	Proof tracking test (IEC 60112).....:	See Test Table 17.16 (13.4)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

17.8 (11.2)	**TABLE I: Creepage distances and clearances**							**P**
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages							**P**
	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*							**P**
	Insulation type **	**Measured clearance**	**Required**		**Measured creepage**	**Required**		
			clearance	***Table**		**creepage**	***Table**	
Distance 1:	B	2,6	1,5	11.1.B	2,6	2,5	11.1.A	
Working voltage (V)..... :					240			—
PTI..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					—			—
Supplementary information: Between L and N								
Distance 2:	R	>3,9	3	11.1.B	>6,5	5	11.1.A	
Working voltage (V)..... :					240			—
PTI..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					—			—
Supplementary information: Between live part and mounting surface / accessible parts.								
Distance 3:	S	>3,3	1,5	11.1.B	>3,3	2,5	11.1.A	
Working voltage (V)..... :					—			—
PTI..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					—			—
Supplementary information: Between outer surface of cable clamped by cord anchorage and accessible metal parts								

** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.

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Clause	Requirement + Test	Result - Remark	Verdict

17.8 (11.2)	TABLE II: Creepage distances and clearances							N/A
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages								
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2								
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required		
			clearance	*Table		creepage	*Table	
Distance 1:								
Working voltage (V) ..... :								—
Frequency if applicable (kHz) ..... :								—
PTI ..... :					< 600 ☐	≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :								—
Supplementary information:								
Distance 2:								
Working voltage (V) ..... :								—
Frequency if applicable (kHz) ..... :								—
PTI ..... :					< 600 ☐	≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :								—
Supplementary information:								
Distance 3:								
Working voltage (V) ..... :								—
Frequency if applicable (kHz) ..... :								—
PTI ..... :					< 600 ☐	≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :								—
Supplementary information:								

** Insulation type: B – Basic; S – Supplementary; R – Reinforced.

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Clause	Requirement + Test	Result - Remark	Verdict

17.16 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics		P
Allowed impression diameter (mm) .....:		2	—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
LED driver PCB	See Annex 1	125	0,7
Plastic enclosure	See Annex 1	119,4	1,65
Control circuit PCB	See Annex 1	125	0,7
LED connector	See Annex 1	125	0,8
Plastic for switch	See Annex 1	125	1,25
Bobbin of T1	See Annex 1	130,8	0,75
Supplementary information:—			

17.16 (13.3.1)	TABLE: Needle-flame test				P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
LED driver PCB	See ANNEX 1	10	No	0	P
LED control circuit PCB	See ANNEX 1	10	No	0	P
LED connector	See ANNEX 1	10	No	<30	P
Plastic for switch	See ANNEX 1	10	No	<30	P
Bobbin of T1	See ANNEX 1	10	No	<30	P
Control circuit connector	See ANNEX 1	10	No	<30	P
Supplementary information: —					

17.16 (13.3.2)	TABLE: Resistance to heat and fire - Glow wire tests			P
Object/ Part No./ Material	**Manufacturer/ trademark**	**GWT (°C): 650**		**Verdict**
		t_E (s)	**t_i (s)**	**t_R (s)**	
Plastic enclosure	See ANNEX 1	0	0	0	P

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Clause	Requirement + Test	Result - Remark	Verdict

LED cover	See ANNEX 1	0	0	0	P
Ignition of the specified layer placed underneath the test specimen (Yes/No) ..... :					No
Supplementary information: —					

17.16 (13.4)	**TABLE: Proof tracking test**				**N/A**
Test voltage PTI ..... :		175 V			—
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
Supplementary information: —					

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information					
Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Enclosure	B	Covestro Deutschland AG [PC Resins]	2805 + (z)(f1), 2805 + (z)(f1) RE CQ	HB	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
LED cover	B	Mitsubishi Chemical Polymer Nantong Co Ltd	VH(ww)(f1), VH(f1), VHM(f1), VHS(f1)	HB	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
LED	B	Shenzhen Chengyuan Optoelectronics Technology Co. Ltd.	T-2835B20-W2G6	3,0 – 3,3 V; 65 mA; 2650 – 2750 K	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	Tested with appliance
LED	B	Shenzhen Chengyuan Optoelectronics Technology Co. Ltd.	T-2835B24-P5F6	3,0 – 3,3 V; 65 mA; 6500 – 7000 K	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	Tested with appliance
LED PCB	B	Huizhou Glorysky Electronics Co Ltd	GS-AL10	V-0	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
LED wire	B	Dongguan Zelongkang Wire Co., Ltd	10368	105℃; 18 AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
	D	SHENZHEN JTK WIRE&CABLE CO LTD	10368	105℃; 18 AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance

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Clause	Requirement + Test	Result - Remark	Verdict

PCB for control circuit	B	KINGBOARD LAMINATES HOLDINGS LTD	KB-6160C	V-0	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
	D	HUIZHOU GLORYSKY ELECTRONICS CO LTD	GS-M	V-0	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
	D	DICKSON CIRCUITS (HK) LTD	DC-M	V-0	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
	D	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	GDM-C3, ILM-C3	V-0	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
Switch	B	Dongguan HUACONN Electronics Co., Ltd	HS8 Serie(s)	AC 250 V; 3 A	EN IEC 61058-1 EN 61058-1-1	VDE
Switch wire	B	Dongguan Zelongkang Wire Co., Ltd	10368	105℃, 300 Vac, 26AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
	D	SHENZHEN JTK WIRE&CABLE CO LTD	10368	105℃, 300 Vac, 26AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
Plastic in Switch (S1~S4)	B	DONGGUAN HRO ELECTRONICS TECHNOLOGY CO.LTD	K2-1109SP-A4SA-04	PA46	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	Tested with appliance

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Clause	Requirement + Test			Result - Remark		Verdict
Wire for control circuit	B	Dongguan Zelongkang Wire Co., Ltd	10368	105℃; 22 AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
	D	SHENZHEN JTK WIRE&CABLE CO LTD	10368	105℃; 22 AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
Internal wire	B	Dongguan Zelongkang Wire Co., Ltd	10368	105 ℃; 18 AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
	D	SHENZHEN JTK WIRE&CABLE CO LTD	10368	105 ℃; 18 AWG	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
DC connector for control circuit	B	Dongguan Haishen Electronic Technology Co., LTD	PHS-LT-NA	PA9T	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	Tested with appliance
Plug	B	Dongguan City Xin Hailin Wire and Cable Technology Co., Ltd.	LP-23	AC 250 V 2.5 A	EN 50075	VDE
Supply cord for plug	B	Dongguan City Xin Hailin Wire and Cable Technology Co.. Ltd.	H03VVH2-F	2 x 0,75 mm^2	EN 50525-2-11	VDE
LED driver						
PCB	B	Jiangsu Yaoshu Intelligent Technology Co LTD	YS-M	V-0	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance

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Clause	Requirement + Test	Result - Remark	Verdict

	D	GuangdeOukeda Electronic Co Ltd	HD-1, HD-2	V-0	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
Fuse	B	Dongguan Better Electronics Technology Co., Ltd.	932	AC 250 V; 3,15 A	EN 60127-1 EN 60127-3	VDE
	D	LITTELFUSE INC	392	AC 250 V; 3,15 A	EN 60127-1 EN 60127-3	VDE
X capacitor (CX1)	B	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	0,47uF; 250/275/305/310 Vac; 40/110/56	EN IEC 60384-14	VDE
X capacitor (CX2)	B	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	0,1µF; 250/275/305/310 Vac; 40/110/56	EN IEC 60384-14	VDE
Y capacitor	B	Sichuan TRX Technology Co., Ltd.	TRX	250/400 VAC; 2200 pF; Y1; 40/125/21	IEC60384-1 IEC 60384-14	UL ENEC
Optocoupler	B	NingBo Qunxin Microelectronics Co., LTD	QX10yy-UNY-WVZZ	CI, Cr≧7,62 mm; 55/110/21	EN IEC 60747-5-5	VDE
-Bobbin for Transformer	B	CHANG CHUN PLASTICS CO LTD	T375J	V-1, 150°C	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
-Triple insulated wire for Transformer (for secondary)	B	SHANGHAI XIANGXIANG ELECTRON CO LTD	TKW-B	TIW, 130 °C	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance

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Clause	Requirement + Test	Result - Remark	Verdict

	D	HUIZHOU DONGJU FLUO TECH PLASTIC CO LTD	TIW-BXXyy	TIW, 130 °C	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
- Magnet wire for Transformer (for primary)	B	ZHEJIANG SANXING ELECTRICAL TECHNOLOGY CO., LTD.	QA-*/155	155 °C; Magnet Wire	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
-Insulation tape	B	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT, WF	130 °C	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
-Tubing	B	HUIZHOU DONGJU FLUO TECH PLASTIC CO LTD	TFL	VW-1; 200 °C	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance
NTC	B	Nanjing Shiheng Electronics Co., Ltd.	MF72	240V; 5 A; 3 Ω	EN IEC 60539-1	TUV Rh
DC connector for LED wire	B	BOOM PRECISION ELECTRONICS CO LTD ZHEJIANG	VH-2A	250 V; 3 A	EN IEC 60598-2-17 EN IEC 60598-1 EN 60598-2-4	UL & tested with appliance

Supplementary information:

[1] Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

A - The component is replaceable with another one, also certified, with equivalent characteristics

B - The component is replaceable if authorised by the test house

C - Integrated component tested together with the appliance

D - Alternative component

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	**TABLE: Thermal tests of Section 12**		
	Type reference ..... :	LP800Bi	—
	Lamp used ..... :	Non-user replaceable LEDs	—
	Lamp control gear used ..... :	—	—
	Mounting position of luminaire ..... :	As normal used	—
	Supply wattage (W) ..... :	85,9	—
	Supply current (A) ..... :	0,703	—
	Temperatures in test 1 - 4 below are corrected for ta (°C) ..... :	40	—
	- abnormal operating mode ..... :	Short-circuited LED and Unfavourable point under 30N force	—
17.13 (12.4)	- test 1: rated voltage ..... :	—	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	240 V x 1,06 = 254,4 V	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	—	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	—	—
17.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	240 V x 1,1 = 264 V	—

Temperature measurements (°C)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
External Enclosure (include LED cover)	40,0	—	80,6	—	81	—	—
Internal Enclosure (include LED cover)	40,0	—	94,4	—	Ref.	—	—
Means of adjustment and its surrounding space	40,0	—	73,0	—	70+5	—	—
Plug	40,0	—	46,4	—	Ref.	—	—
Supply cord	40,0	—	53,2	—	90	—	—
Wire be clamped	40,0	—	78,2	—	75	—	—
Plastic for switch	40,0	—	61,9	—	Ref.	—	—

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Clause	Requirement + Test				Result - Remark		Verdict
Switch wire	40,0	—	77,8	—	105	—	—
LED	40,0	—	78,3	—	Ref.	—	—
LED PCB	40,0	—	76,1	—	Ref.	—	—
LED wire	40,0	—	81,1	—	105	—	—
LED connector	40,0	—	90,2	—	Ref.	—	—
Control circuit PCB	40,0	—	76,6	—	Ref.	—	—
Wire for Control circuit PCB	40,0	—	83,2	—	105	—	—
DC connector Control circuit	40,0	—	92,2	—	Ref.	—	—
Y-cap	40,0	—	107,6	—	125	Max.108,6	135
X-cap	40,0	—	101,4	—	110	Max.101,8	120
E-cap	40,0	—	105,0	—	105+5	Max.105,4	115
Optocoupler	40,0	—	102,7	—	110	—	—
Transformer primary winding of LED driver	40,0	—	108,8	—	120	Max.109,6	175
Transformer secondary winding of LED driver	40,0	—	102,2	—	120	Max.102,9	175
Transformer bobbin of LED driver	40,0	—	105,8	—	Ref.	—	—
PCB for LED driver	40,0	—	95,9	—	Ref.	—	—
Insulation sheet of LED driver	40,0	—	107,2	—	Ref.	—	—
Fuse	40,0	—	96,0	—	Ref.	—	—
Mounted surface	40,0	—	45,8	—	90	Max.45,8	130
Lighted object (0,2 m)	40,0	—	54,6	—	90	Max.55,1	175
Supplementary information: —							

IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 3	**Screw terminals (part of the luminaire)**	N/A
(14)	**SCREW TERMINALS**	N/A

ANNEX 4	**Screwless terminals (part of the luminaire)**	N/A
(15)	**SCREWLESS TERMINALS**	N/A

(15.6.3.1) **(15.6.3.2)**	**TABLE: Contact resistance test / Heating tests**	N/A

- - - End of main report - - -

Attachment 1: European Group differences and national differences of IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT **IEC 60598-2-17** **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES** Luminaires Part 2: Particular Requirements Section 17: Luminaires for stage lighting, television and film studios (outdoor and indoor)			
Differences according to.....:	EN 60598-2-17:2017 used in conjunction with EN 60598-1:2021 + A11:2022		
TRF template used .....:	IECEE OD-2020-F2:2022, Ed. 1.2		
Attachment Form No......:	EU_GD_IEC60598_2_17G		
Attachment Originator .....:	TÜV Rheinland LGA Products GmbH		
Master Attachment.....:	Dated 2023-06-09		
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	CENELEC COMMON MODIFICATIONS (EN)		
17.6 (3)	**MARKING**		
17.6 (3.3.12)	Delete NOTE 4		N/A
17.7 (4)	**CONSTRUCTION**		
17.7 (4.11.6)	Electro-mechanical contact systems "the test voltage however being reduced to 1 500 V"		N/A
17.11 (5)	**EXTERNAL AND INTERNAL WIRING**		
17.11 (5.2.1)	Connecting leads		N/A
	- without a means for connection to the supply		N/A
	- terminal block specified		N/A
	- relevant information provided		N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1		N/A
17.11 (5.2.2)	Cables equal to EN 50525		P
	Replace table 5.1 – Supply cord		P
17.13 (12)	**ENDURANCE TESTS AND THERMAL TESTS**		

Attachment 1: European Group differences and national differences of IEC 60598-2-17			
Clause	Requirement + Test	Result - Remark	Verdict
17.13 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		N/A
ZB	**ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)**		
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(5.2.18)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, GB: type of plug		P
ZC	**ANNEX ZC, NATIONAL DEVIATIONS (EN)**		
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	GB: Requirements according to United Kingdom Building Regulation		N/A

--- End of Attachment 1 ---

Attachment 2: Additional requirements of EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.5 (2)	**CLASSIFICATION OF LUMINAIRES**		
4.5.1 (-)	Ordinary luminaire classified "for indoor use only" ...:	Yes ☒ No ☐	—
	Luminaires other than ordinary classified "for indoor use only".....:	Yes ☐ No ☒	—
	Luminaires other than ordinary classified for "outdoor use" and "for indoor use" .....:	Yes ☐ No ☒	—
4.5.2 (-)	Portable luminaire for outdoor use classified IPX4 or higher		N/A
4.5.3 (-)	Luminaires designed for standing on a floor or table classified as suitable for direct mounting on normally flammable surfaces		N/A
4.6 (3)	**MARKING**		
4.6.1 (-)	Luminaire not suitable for outdoor application		N/A
	Required symbol		N/A
	Information in the instructions		N/A
4.6.2 (-)	Outdoor use, socket outlet incorporated in the luminaire		N/A
	Maximum power rating marked		N/A
	Position of the marking		N/A
4.7 (4)	**CONSTRUCTION**		
4.7.1 (-)	Insulation not damaged when moving, adjusting or placing on support		P
4.7.2 (-)	Wiring fixed, to avoid rubbing		N/A
	Carrier or clips of insulation material or with insulating lining		N/A
4.7.3 (-)	Luminaire does not overturn:		P
	- at an angle of 6° for indoor use		P
	- at an angle 15° for outdoor use		N/A
4.7.4 (-)	Candlestick luminaires provided with switch		N/A
	Switch in candlestick luminaires with E5 or E10 lampholders switches all lamps on and off simultaneously		N/A
	Switch part of the luminaire or within 300 mm of the luminaire if with cord		N/A
4.7.5 (-)	Voltage not exceeding 25 V for E5 lampholders		N/A
	E10 lampholder voltage:		N/A
	- not exceeding 60 V for series connection		N/A
	- not exceeding 250 V for parallel connection		N/A

Attachment 2: Additional requirements of EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Maximum rated wattage does not exceed 100 W		N/A
4.7.6 (-)	Tails not provided for luminaires for outdoor use		N/A
4.7.7 (-)	Not more than two cable entries for luminaires for outdoor use		N/A
4.7.8 (-)	Portable luminaires for outdoor use, socket-outlet degree of protection at least same as the luminaire but not less than IPX4.		N/A
	Degree of protection maintained with or without a plug inserted into the socket-outlet.		N/A
	Class II luminaires, mains socket-outlets comply with the standard and only allow connection to Class II luminaires		N/A
	Class I luminaires, mains socket-outlets comply with the standard and only allow connection to Class I or Class II luminaires		N/A
4.7.9 (-)	Lampholders and plugs resistant to tracking for luminaires for outdoor use	See Test Table 4.16 (13.4)	N/A
	Compliance to clause 13.4		N/A
4.11 (5)	**EXTERNAL AND INTERNAL WIRING**		N/A
4.11 (5.2)	**Supply connection and external wiring**		N/A
4.11.1 (-)	Cord anchorage of luminaire for indoor use made of glass or ceramic not fixed or integral		N/A
4.11.2 (-)	For Class I and Class II luminaires for indoor use, if:		N/A
	- mass < 1 kg (kg).....:		N/A
	- rated current ≤ 2,5 A (A).....:		N/A
	- cable length ≤ 2 m (m).....:		N/A
	- the nominal cross-sectional area of copper conductor ≥ 0,5 mm² (mm²).....:		N/A
4.11.3 (-)	Terminals, cord anchorage and inlet opening provided for luminaire for outdoor use delivered without a flexible cable or cord and a plug.		N/A
4.11.4 (-)	Non-detachable flexible cables or cords not lighter than type 245 IEC 57 for Class I and Class II luminaires for outdoor use.		N/A
4.12 (8)	**PROTECTION AGAINST ELECTRIC SHOCK**		N/A
4.12 (-)	Class I luminaire with bayonet lampholder:		N/A
	1) cap not accessible with test finger		N/A
	2) metal lampholder is earthed		N/A

Attachment 2: Additional requirements of EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.13 (12)	**ENDURANCE TEST AND THERMAL TEST**		N/A
4.13 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) but before (9.3) specified in 4.14		—
4.13 (-)	Luminaire for indoor use tested in overturned position (overturns < 15°)		N/A

--- End of Attachment 2 ---

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
4 (4)	**GENERAL REQUIREMENTS**		
- (4.1)	Control gear with higher overvoltage capability according to overvoltage category III (see Annex L)		N/A
- (4.1)	Compliance of independent control gear with relevant parts of IEC 60598-2 series		N/A
- (4.1)	Thermally protected control gear complies with Annex B		N/A
- (4.2)	Transformer complies with applicable requirements of IEC 61558-2-16 if frequency exceeds 500 Hz		P
- (4.2)	Transformer complies with applicable requirements of IEC 61558-2-1, IEC61558-2-4, IEC 61558-2-6 or IEC 61558-2-13 if frequency does not exceed 500 Hz		N/A
- (4.3)	Information for control gear design in light source standards		P
4 (-)	Centrally supplied control gear for emergency lighting complies with Annex A		N/A
6 (6)	**INFORMATION AND MARKING**		N/A
7 (7)	**TERMINALS**		P
	Screw terminals according to section 14 of IEC 60598-1:2020		P
	Separately approved; component list	(See Annex 1)	N/A
	Part of control gear	(See Annex 3)	P
	Screwless terminals according to section 15 of IEC 60598-1:2020		P
	Separately approved; component list	(See Annex 1)	P
	Part of control gear	(See Annex 4)	P
	Terminals according to relevant IEC standard:		N/A
	Comply with relevant IEC standard	(See Annex 1)	N/A
	Marking and ratings suit conditions which can occur in use		N/A
8 (8)	**EARTHING**		N/A
9 (9)	**PROTECTION AGAINST ACCIDENTAL CONTACT WITH HAZARDOUS LIVE PARTS**		P
- (9.1)	**General**		P
	Control gear protected against accidental contact with hazardous live parts		P

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	Lacquer or enamel not used for protection or insulation		P
	Adequate mechanical strength on parts providing protection		P
	No contact to conductive parts of enclosure protected only by basic insulation for built-in control gear with double/reinforced insulation		P
	FELV parts accordingly insulated		N/A
	Use of tool for parts providing protection against accidental contact with hazardous live parts		N/A
- (9.2)	**Capacitors**		P
	Capacitors > 0,5 μF: voltage after 1 min (V): ≤ 50 V .....:	Max.19,6 V	P
- (9.3)	**ELV limits**		P
	Voltage, ELV circuits; AC (V).....:		N/A
	Peak voltage, ELV circuits; AC (V).....:		N/A
	Voltage in ELV circuits; DC (V) .....:	38,86	P
	Voltage, ELV circuits; DC (V).....:		N/A
	Peak voltage, ELV circuits; DC (V).....:		N/A
	Voltage, ELV circuits; interrupted DC (V) .....:		N/A
	Peak voltage, ELV circuits; interrupted DC (V) .....:		N/A

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
- (9.4)	**SELV and PELV touch currents**		P
	Touch current between different SELV/PELV circuits and between SELV/PELV circuits and earth potential:		P
	AC (mA, peak) ……..……:		N/A
	DC (mA, RMS) ……..……:	0,05	P
	Interrupted DC (f<10Hz or f >200Hz) (mA, peak)…:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz) (mA, peak)…...:		N/A
- (9.5)	**Safety isolating control gear which does not rely upon the luminaire enclosure for protection against electric shock**		N/A
- (9.5.1)	**General**		N/A
	SELV/PELV circuits comply with touch voltage limits according to 9.5.2		N/A
	SELV/PELV circuits comply with touch current limits according to 9.5.3 if touch voltage exceeding limits in 9.5.2		N/A
	One conductive part of SELV circuits insulated and insulation withstands test voltage 500 V (RMS) if touch current exceeding limits in 9.5.3		N/A
	One pole of PELV outputs insulated and insulation withstands test voltage 500 V (RMS) if touch current exceeding limits in 9.5.3		N/A
- (9.5.2)	**Touch voltage limits**		N/A
	Touch voltage in SELV circuits:		N/A
	AC; Working voltage (V)……..……..:		N/A
	AC; Working peak voltage (V)……..……..:		N/A
	DC; Working voltage (V)……..……..:		N/A
	DC; Working peak voltage (V)…..……..…..:		N/A
	Interrupted DC (f<10Hz or f >200Hz); working peak voltage (V)……..:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz); working peak voltage (V)……...:		N/A
	Touch voltage in PELV circuits:		N/A
	AC; Working voltage (V)……..……..:		N/A
	AC; Working peak voltage (V)……..……..:		N/A
	DC; Working voltage (V)……..……..:		N/A
	DC; Working peak voltage (V)…..……..…..:		N/A

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	Interrupted DC (f<10Hz or f >200Hz); working peak voltage (V)……:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz); working peak voltage (V)……:		N/A
- (9.5.3)	**Touch current limits**		N/A
	AC (mA)……:		N/A
	DC (mA)……:		N/A
	Interrupted DC (f<10Hz or f >200Hz) (mA)……:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz) (mA)……:		N/A
10 (10)	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		P
- (10.1)	**General**		P
	Insulation resistance test according to 10.2 after moisture treatment immediately followed by electric strength test for according to 10.3		–
- (10.2)	**Insulation resistance**		P
- (10.2.1, 10.2.2)	**Moisture treatment and testing**		P
	Immediately after storage 48 h at 91-95% relative humidity and temperature 20-30 °C measuring of insulation resistance:		P
	Insulation resistance for basic insulation ≥ 2 MΩ ...:	100 MΩ	P
	Insulation resistance for double or reinforced insulation ≥ 4 MΩ ……:	100 MΩ	P
- (10.3)	**Electric strength**		P
- (10.3.1)	**General**		P
	AC electric strength test or DC electric strength test performed immediately after insulation resistance test according to 10.2 with the same sample		–
- (10.3.2)	**AC test**		P
	Basic insulation for SELV or PELV, test voltage 500 V		P
	Working voltage ≤ 50 V, test voltage 500 V		P
	Working voltage > 50 V, test voltage (V):		P
	Basic insulation, 2U + 1000 V……:	1480 V	P

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	Supplementary insulation, 2U + 1000 V.....:		N/A
	Double or reinforced insulation, 4U + 2000 V.....:	Transformer primary to secondary: 2960 V	P
- (10.3.3)	**DC test**		N/A
	Basic insulation for SELV or PELV, test voltage 500 V		N/A
	Working voltage ≤ 50 V, test voltage 500 V		N/A
	Working voltage > 50 V, test voltage (V):		N/A
	Basic insulation, 2U + 1000 V .....:		N/A
	Supplementary insulation, 2U + 1000 V .....:		N/A
	Double or reinforced insulation, 4U + 2000 V .....:		N/A
- (10.3.4)	**General test conditions and compliance**		P
	No flashover or breakdown		P
11 (11)	**FAULT CONDITIONS**		P
- (11.1)	**General**		P
	No impairment of safety when control gear operated under single fault conditions		P
- (11.2)	**Applicable fault conditions**		P
- (11.2.1)	**PCB tracks**		N/A
	Short-circuit of PCB tracks if creepage distances and clearances reduced according to 13.5.3		N/A
- (11.2.2)	**Electronic components**		P
	Short-circuited or open circuited electronic components	(See appended table)	P
- (11.2.3)	**Insulation layers**		P
	Short-circuited conductive parts protected by functional insulation layers consisting of lacquer, enamel or textile		P
- (11.3)	**Test power supply requirements**		P
	Use of high-power supply according to rated supply type of control gear with fault current of 160A		–
- (11.4)	**Test procedure and compliance**		P
- (11.4.1)	**Test procedure**		P
	Tests carried out on three samples alternatively on one sample		–

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
- (11.4.2)	**Compliance**		P
	When operated under fault conditions control gear:		P
	- does not emit flames or molten material		P
	- does not produce flammable gases		P
	- hazardous live parts not accessible		P
	- basic, supplementary or reinforced insulation barriers remain effective		P
	Insulation resistance measured after fault condition tests (500V DC):		P
	Insulation resistance ≥ 2 MΩ for basic or supplementary insulation .....:	100 MΩ	P
	Insulation resistance ≥ 4 MΩ for reinforced insulation .....:	100 MΩ	P
	Thermally protected control gear does not exceed the marked temperature value		P
	Fuse in control gear tested using test circuit Fig. 2 does not operate		P
	Built-in control gear with double insulation complies with electric strength test according to 10.3 with reduced test voltage		N/A
12 (12)	**CONSTRUCTION**		P
- (12.1)	**Use of fibrous materials**		P
	Wood, cotton, silk, paper and similar non-impregnated fibrous material not used as insulation		P
	Wax and similar impregnators not used		P
	Used impregnated fibrous materials withstand glow-wire test 550°C		P
- (12.2)	**Insulation between circuits and accessible parts**		P
- (12.2.1)	**General**		P
	Control gear provides adequate insulation		P
	Solid or thin sheet insulation used as double or reinforced insulation below PCB, test according to Clause H.2 in Annex H		N/A
	Basic insulation between live parts of different polarity		P

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
- (12.2.2)	**SELV or PELV circuits**		P
	SELV or PELV circuits insulated from LV by double or reinforced insulation		P
	SELV or PELV circuits insulated from FELV circuits by supplementary insulation		N/A
	SELV or PELV circuits insulated from other SELV circuits by basic insulation		N/A
	SELV or PELV circuits insulated from non-SELV or non-PELV circuits by double or reinforced insulation		N/A
	SELV output circuits insulated from earth by basic insulation		P
	One pole of PELV circuits connected to earth for functional purposes		N/A
	SELV circuits insulated from conductive enclosure of control gear by basic insulation		P
	SELV outputs of safety isolating control gear used for PELV applications		N/A
- (12.2.3)	**FELV circuits**		N/A
	FELV circuits insulated from LV supply by basic insulation		N/A
	FELV circuits insulated from conductive enclosure of control gear by supplementary insulation		N/A
- (12.2.4)	**Other circuits**		N/A
	Other circuits insulated from conductive enclosure of control gear by basic insulation		N/A
- (12.3)	**Metal core printed circuits boards (MCPCBs)**		N/A
	Insulation properties of PCBs over metallic substrate are considered as single level of insulation (basic or supplementary)		N/A
- (12.4)	**Interrupted DC output**		N/A
	Independent or built-in safety isolating control gear providing interrupted DC with frequencies 10Hz ≤ f ≤ 200 Hz; output peak voltage ≤ 25V		N/A
- (12.5)	**Control circuits**		N/A
	Control circuits insulated according to SELV circuits requirements		N/A

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	Control gear with interfaces in accordance with IEC 62386-101 (DALI):		N/A
	- control circuit insulated from mains supply at least by basic insulation		N/A
	- considered as FELV circuit, insulated from all other circuits accordingly		N/A
	Control gear with interfaces in accordance with IEC 63128 (analogue voltage dimming) or IEC 60929:2011, Cl. E.3 (PWM):		N/A
	- control circuit insulated from mains supply at least by basic insulation		N/A
	- considered as FELV circuit		N/A
	Control gear using other protocols operated with ELV		N/A
	No insulation required where:		N/A
	- control signals injected via supply terminals or circuits connected to supply separate terminal via separate terminal		N/A
	- control signal receiver inside enclosure and signal transmitted remotely via IR or radio transmitter		N/A
	Control circuitry separated from SELV outputs by at least basic insulation		N/A
- (12.6)	**Bridging of insulation**		N/A
- (12.6.1)	**Resistors**		N/A
	Use of one resistor for bridging of basic or supplementary insulation		N/A
	Use of at least two series connected resistors for bridging of double or reinforced insulation		N/A
	Resistors comply with IEC 62368-1:2023, Cl. G.10		N/A
- (12.6.2)	**Capacitors**		P
	Use of Y capacitors according to Table 11 for bridging of insulation		P
	Y capacitors comply with relevant requirements of IEC 60384-14		P
- (12.7)	**Built-in control gear with basic insulation and built-in control gear with double insulation**		N/A
	Double or reinforced insulation between hazardous live parts and control gear enclosure		N/A
	Double or reinforced insulation between hazardous live parts and mounting surface for control gear without enclosure		N/A

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	Basic insulation between hazardous live parts and control gear enclosure		N/A
- (12.8)	**Transformers**		P
- (12.8.1)	**General**		P
	Transformers comply with IEC 61558-1:2017, cl.19.1 and 19.12		P
- (12.8.2)	**Components**		N/A
	Components used as protective devices with working frequencies ≤ 500Hz comply with relevant requirements in IEC 61558-1:2017, cl. 20.7 - 20.12		N/A
- (12.9)	**Independent control gear**		N/A
	Measured distance between input and output terminals ≥16 mm .....:		N/A
12 (-)	Method of output adjustment for independent control gear with programmable or settable output .....:		N/A
13 (13)	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION**		P
- (13.1)	**General**		P
	Creepage distances and clearances according to 13.2 and 13.3		–
	Distance through insulation (DTI) according to 13.4		–
	Control gear protected against pollution comply with Annex I		N/A
	Transformers comply with IEC 61558-1:2017, Clause 26 or f >500Hz with IEC 61558-2-16:2016, Clause 26		–
- (13.2)	**Creepage distances**		P
- (13.2.2)	**Creepage distances for working frequencies ≤ 30kHz**		P
	Creepage distances according to Table 12	(See appended table)	P
- (13.2.3)	**Creepage distances for working frequencies above 30 kHz**		N/A
	Creepage distances according to Table 12	(See appended table)	N/A
	Creepage distances according to Table 13	(See appended table)	N/A
- (13.3)	**Clearances**		P
- (13.3.2)	**Clearances considering mains supply transient overvoltages**		P
	Clearances distances according to Table 14	(See appended table)	P

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
- (13.3.3)	**Clearances not considering mains supply transient overvoltages**		N/A
	Clearances distances for basic or supplementary insulation according to Table 15	(See appended table)	N/A
	Clearances distances for reinforced insulation according to Table 16	(See appended table)	N/A
- (13.4)	**Distances through insulation (DTI)**		P
	DTI for double or reinforced insulation comply with IEC 61558-1:2027, cl. 26.3		P
	DTI for double or reinforced insulation within opto-couplers		P
- (13.5)	**Specific requirements for PCB**		N/A
- (13.5.2)	**Reduction of creepage distances**		N/A
	Creepage distances according to Table 17		N/A
- (13.5.3)	**No minimum requirements for creepage distances and clearances**		N/A
	Short-circuit requirements for PCB tracks met according to cl.11		N/A
- (13.6)	**Specific requirements for insulation layers**		N/A
	Insulation distances if wire insulated by enamel according to IEC 60317-0-1:2013, cl.13		N/A
14 (14)	**SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS**		P
- (14.2)	**Electrical connections**		P
	Contact pressure		P
- (14.3)	**Self-tapping and thread-cutting screws**		N/A
	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
- (14.4)	**Locking against loosening**		N/A
	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
	-sealing compound		N/A
- (14.5)	**Current-carrying parts**		P
	Material of current-carrying parts		P

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

- (14.6)	**Mechanical stress resistance**		N/A
	Screws not made of soft material		N/A
	Screws of insulating material for maintenance purposes		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A

15 (15)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		P
- (15.1)	Ball-pressure test .....:	See Test Table 15 (15.1)	P
- (15.2.2)	Glow-wire test .....:	See Test Table 15 (15.2.2)	P
- (15.2.3)	Needle-flame test .....:	See Test Table 15 (15.2.3)	P
- (15.2.4)	Test of printed boards .....:	See Test Table 15 (15.2.4)	N/A
- (15.3)	Tracking test .....:	See Test Table 15 (15.3)	N/A

16 (16)	**THERMAL REQUIREMENTS**		P
- (16.1.2)	**Built-in control gear**		N/A
	Test made with control gear positioned according to Fig.8 in draught-proof test chamber according to Annex D		N/A
- (16.1.3)	**Integral control gear**		P
	Control gear tested assembled in luminaire under conditions in IEC 60598 series		P
- (16.1.4)	**Independent control gear**		N/A
	Control gear tested in draught-proof test chamber according to Annex D		N/A
- (16.2)	**Normal operation**		P
	Control gear and mounting surfaces do not attain excessive temperature according to Table 19	(See Annex 2)	P
16.2 (-)	Control gear subjected for following testing conditions:		N/A
	- constant voltage type control gear		N/A
	- constant current type control gear		N/A
	- constant power type control gear		N/A
	- controllable control gear		N/A

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	- control gear incorporating constant light output function		N/A
- (16.3)	**Abnormal operation**		P
	Control gear does not become unsafe and temperatures do not exceed values according to Table 20	(See Annex 2)	P
- (16.3.2)	Short-circuited output terminals		P
- (16.3.3)	Control gear with fuse in accordance with IEC 60269-2, IEC 60269-3 or equivalent		N/A
- (16.3.4)	Control gear with miniature fuse in accordance with IEC 60127 series or equivalent		N/A
- (16.3.5)	Control gear with another overload protective device		N/A
- (16.3.1)	Electric strength test according to cl.10.3		P
- (16.3.1)	No defect, smoke or flammable gases according to cl.10.3		P
17 (-)	**Output working voltage (U_{out})**		P
	Voltage in output terminals not exceeded output working voltage U_{out} under any load conditions		P
18 (-)	**Rated output characteristics**		N/A
	Under normal conditions electrical output characteristics do not exceed rated values		N/A
	Constant voltage control gear does not exceed rated output power and rated output voltage by more than 10%		N/A
	Constant current control gear does not exceed rated output power and rated output current by more than 10%		N/A
	Control gear with constant light output does not exceed each rated output by more than 10%		N/A

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

11 (11)	**TABLE: tests of fault conditions**	
Part	Simulated fault	Hazard
BD1	Open circuited	NO
BD1	Short circuited	NO
E-cap	Short circuited	NO
Q1	Short circuited	NO
IC	Short circuited	NO
Diode	Short circuited	NO
Transistor	Short circuited	NO
Output	Short circuited	NO
Output	Open circuited	NO

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

13 (13)	TABLE: clearance and creepage distance measurements (mm)							P
Applicable part of IEC 61347-1 Table 12 – 17*								
Distances	**Insulation type ****	**Measured clearance**	**Required**		**Measured creepage**	**Required**		
			clearance	***Table**		**creepage**	***Table**	
Distance 1:	B	2,6	1,5	14	2,6	2,5	12	
Working voltage (V) ..... :					240 V			—
Frequency (kHz) ..... :					—			—
PTI ..... :					< 600 ☒	≥ 600 ☐		—
Working peak voltage (kV) ..... :					2,5 KV			—
Peak voltage (kV) ..... :					—			—
Supplementary information: Between different polarity of input terminal and fuse.								
Distance 2:	R	6,7	3	14	6,7	5	12	
Working voltage (V) ..... :					240 V			—
Frequency (kHz) ..... :					—			—
PTI ..... :					< 600 ☒	≥ 600 ☐		—
Working peak voltage (kV) ..... :					2,5 KV			—
Peak voltage (kV) ..... :					—			—
Supplementary information: Between primary circuit part and second circuit part.								
Distance 3:	R	>6,5	3	14	>6,5	5	12	
Working voltage (V) ..... :					240 V			—
Frequency (kHz) ..... :					—			—
PTI ..... :					< 600 ☒	≥ 600 ☐		—
Working peak voltage (kV) ..... :					2,5 KV			—
Peak voltage (kV) ..... :					—			—
Supplementary information: Between Live part and accessible enclosure.								

** Insulation type: B – Basic; S – Supplementary; R – Reinforced

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

15 (15.1)	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm) .....:		2		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Supplementary information: see main test report.				

15 (15.2.2)	TABLE: Resistance to heat and fire - Glow wire tests				P
Object/ Part No./ Material	Manufacturer/ trademark	GWT (°C): 650			Verdict
		t_E (s)	t_i (s)	t_R (s)	
Single layer of tissue placed underneath the test specimen does not ignite					P
Supplementary information: see main test report.					

15 (15.2.3)	TABLE: Needle- flame test				P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Supplementary information: see main test report.					

15 (15.2.4)	TABLE: Test of printed boards				N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
					N/A
					N/A
					N/A
Supplementary information: V-0					

Attachment 3: Additional requirement of IEC/EN IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

15 (15.3)	**TABLE: Proof tracking test**				N/A
Test voltage PTI .....:		175V			N/A
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
					N/A
					N/A
					N/A
Supplementary information:—					

Annex 3	**Screw terminals (part of the control gear)**	N/A
(14)	**SCREW TERMINALS**	N/A

Annex 4	**Screwless terminals (part of the control gear)**	N/A
(15)	**SCREWLESS TERMINALS**	N/A

(15.6.3.1) **(15.6.3.2)**	**TABLE: Contact resistance test / Heating tests**	N/A

--- End of Attachment 3 ---

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
4 (4)	**GENERAL REQUIREMENTS**		N/A
- (4.1)	Control gear with higher overvoltage capability according to overvoltage category III (see Annex L)		N/A
- (4.1)	Compliance of independent control gear with relevant parts of IEC 60598-2 series		N/A
- (4.1)	Thermally protected control gear complies with Annex B		N/A
- (4.2)	Transformer complies with applicable requirements of IEC 61558-2-16 if frequency exceeds 500 Hz		N/A
- (4.2)	Transformer complies with applicable requirements of IEC 61558-2-1, IEC61558-2-4, IEC 61558-2-6 or IEC 61558-2-13 if frequency does not exceed 500 Hz		N/A
- (4.3)	Information for control gear design in light source standards		N/A
4 (-)	Electronic circuits meet requirements of declared overvoltage category (compliance with Annex L i IEC 61347-1:2024 for circuits classified as overvoltage category III)		N/A
6 (6)	**INFORMATION AND MARKING**		N/A
7 (7)	**TERMINALS**		N/A
8 (8)	**EARTHING**		N/A

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

9 (9)	**PROTECTION AGAINST ACCIDENTAL CONTACT WITH HAZARDOUS LIVE PARTS**		N/A
- (9.1)	**General**		N/A
	Control gear protected against accidental contact with hazardous live parts		N/A
	Lacquer or enamel not used for protection or insulation		N/A
	Adequate mechanical strength on parts providing protection		N/A
	No contact to conductive parts of enclosure protected only by basic insulation for built-in control gear with double/reinforced insulation		N/A
	FELV parts accordingly insulated		N/A
	Use of tool for parts providing protection against accidental contact with hazardous live parts		N/A
- (9.2)	**Capacitors**		N/A
	Capacitors > 0,5 µF: voltage after 1 min (V): ≤ 50 V .....:		N/A
- (9.3)	**ELV limits**		N/A
	Voltage, ELV circuits; AC (V).....:		N/A
	Peak voltage, ELV circuits; AC (V).....:		N/A
	Voltage in ELV circuits; DC (V) .....:		N/A
	Voltage, ELV circuits; DC (V).....:		N/A
	Peak voltage, ELV circuits; DC (V).....:		N/A
	Voltage, ELV circuits; interrupted DC (V) .....:		N/A
	Peak voltage, ELV circuits; interrupted DC (V) .....:		N/A

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
- (9.4)	**SELV and PELV touch currents**		N/A
	Touch current between different SELV/PELV circuits and between SELV/PELV circuits and earth potential:		N/A
	AC (mA, peak) ……..……..:		N/A
	DC (mA, RMS) ……..……..:		N/A
	Interrupted DC (f<10Hz or f >200Hz) (mA, peak)…:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz) (mA, peak)…...:		N/A
- (9.5)	**Safety isolating control gear which does not rely upon the luminaire enclosure for protection against electric shock**		N/A
- (9.5.1)	**General**		N/A
	SELV/PELV circuits comply with touch voltage limits according to 9.5.2		N/A
	SELV/PELV circuits comply with touch current limits according to 9.5.3 if touch voltage exceeding limits in 9.5.2		N/A
	One conductive part of SELV circuits insulated and insulation withstands test voltage 500 V (RMS) if touch current exceeding limits in 9.5.3		N/A
	One pole of PELV outputs insulated and insulation withstands test voltage 500 V (RMS) if touch current exceeding limits in 9.5.3		N/A
- (9.5.2)	**Touch voltage limits**		N/A
	Touch voltage in SELV circuits:		N/A
	AC; Working voltage (V)……..……..:		N/A
	AC; Working peak voltage (V)……..……..:		N/A
	DC; Working voltage (V)……..……..:		N/A
	DC; Working peak voltage (V)…..……..…..:		N/A
	Interrupted DC (f<10Hz or f >200Hz); working peak voltage (V)…… .....:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz); working peak voltage (V)…….. ..:		N/A
	Touch voltage in PELV circuits:		N/A
	AC; Working voltage (V)……..……..:		N/A
	AC; Working peak voltage (V)……..……..:		N/A
	DC; Working voltage (V)……..……..:		N/A
	DC; Working peak voltage (V)…..……..…..:		N/A

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	Interrupted DC (f<10Hz or f >200Hz); working peak voltage (V)..... .....:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz); working peak voltage (V)..... ..:		N/A
- (9.5.3)	**Touch current limits**		N/A
	AC (mA).....:		N/A
	DC (mA).....:		N/A
	Interrupted DC (f<10Hz or f >200Hz) (mA).....:		N/A
	Interrupted DC (10Hz ≤ f ≤ 200 Hz) (mA).....:		N/A
10 (10)	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		P
- (10.1)	**General**		P
	Insulation resistance test according to 10.2 after moisture treatment immediately followed by electric strength test for according to 10.3		–
- (10.2)	**Insulation resistance**		P
- (10.2.1, 10.2.2)	**Moisture treatment and testing**		P
	Immediately after storage 48 h at 91-95% relative humidity and temperature 20-30 °C measuring of insulation resistance:		P
	Insulation resistance for basic insulation ≥ 2 MΩ ...:	20 MΩ	P
	Insulation resistance for double or reinforced insulation ≥ 4 MΩ .....:		N/A
- (10.3)	**Electric strength**		P
- (10.3.1)	**General**		P
	AC electric strength test or DC electric strength test performed immediately after insulation resistance test according to 10.2 with the same sample		–
- (10.3.2)	**AC test**		P
	Basic insulation for SELV or PELV, test voltage 500 V		P
	Working voltage ≤ 50 V, test voltage 500 V		P
	Working voltage > 50 V, test voltage (V):		N/A
	Basic insulation, 2U + 1000 V.....:		N/A

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	Supplementary insulation, 2U + 1000 V.....:		N/A
	Double or reinforced insulation, 4U + 2000 V.....:		N/A
- (10.3.3)	**DC test**		N/A
	Basic insulation for SELV or PELV, test voltage 500 V		N/A
	Working voltage ≤ 50 V, test voltage 500 V		N/A
	Working voltage > 50 V, test voltage (V):		N/A
	Basic insulation, 2U + 1000 V .....:		N/A
	Supplementary insulation, 2U + 1000 V .....:		N/A
	Double or reinforced insulation, 4U + 2000 V .....:		N/A
- (10.3.4)	**General test conditions and compliance**		P
	No flashover or breakdown		P
11 (11)	**FAULT CONDITIONS**		P
- (11.1)	**General**		P
	No impairment of safety when control gear operated under single fault conditions		P
- (11.2)	**Applicable fault conditions**		P
- (11.2.1)	**PCB tracks**		N/A
	Short-circuit of PCB tracks if creepage distances and clearances reduced according to 13.5.3		N/A
- (11.2.2)	**Electronic components**		P
	Short-circuited or open circuited electronic components	(See appended table)	P
- (11.2.3)	**Insulation layers**		N/A
	Short-circuited conductive parts protected by functional insulation layers consisting of lacquer, enamel or textile		N/A
- (11.3)	**Test power supply requirements**		P
	Use of high-power supply according to rated supply type of control gear with fault current of 160A		–
- (11.4)	**Test procedure and compliance**		P
- (11.4.1)	**Test procedure**		P
	Tests carried out on three samples alternatively on one sample		–

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
- (11.4.2)	**Compliance**		P
	When operated under fault conditions control gear:		P
	- does not emit flames or molten material		P
	- does not produce flammable gases		P
	- hazardous live parts not accessible		P
	- basic, supplementary or reinforced insulation barriers remain effective		N/A
	Insulation resistance measured after fault condition tests (500V DC):		P
	Insulation resistance ≥ 2 MΩ for basic or supplementary insulation .....:	20 MΩ	P
	Insulation resistance ≥ 4 MΩ for reinforced insulation .....:		N/A
	Thermally protected control gear does not exceed the marked temperature value		N/A
	Fuse in control gear tested using test circuit Fig. 2 does not operate		N/A
	Built-in control gear with double insulation complies with electric strength test according to 10.3 with reduced test voltage		N/A
12 (12)	**CONSTRUCTION**		P
- (12.1)	**Use of fibrous materials**		P
	Wood, cotton, silk, paper and similar non-impregnated fibrous material not used as insulation		P
	Wax and similar impregnators not used		P
	Used impregnated fibrous materials withstand glow-wire test 550°C		N/A
- (12.2)	**Insulation between circuits and accessible parts**		N/A
- (12.2.1)	**General**		P
	Control gear provides adequate insulation		P
	Solid or thin sheet insulation used as double or reinforced insulation below PCB, test according to Clause H.2 in Annex H		N/A
	Basic insulation between live parts of different polarity		N/A

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
- (12.2.2)	**SELV or PELV circuits**		N/A
	SELV or PELV circuits insulated from LV by double or reinforced insulation		N/A
	SELV or PELV circuits insulated from FELV circuits by supplementary insulation		N/A
	SELV or PELV circuits insulated from other SELV circuits by basic insulation		N/A
	SELV or PELV circuits insulated from non-SELV or non-PELV circuits by double or reinforced insulation		N/A
	SELV output circuits insulated from earth by basic insulation		N/A
	One pole of PELV circuits connected to earth for functional purposes		N/A
	SELV circuits insulated from conductive enclosure of control gear by basic insulation		N/A
	SELV outputs of safety isolating control gear used for PELV applications		N/A
- (12.2.3)	**FELV circuits**		N/A
	FELV circuits insulated from LV supply by basic insulation		N/A
	FELV circuits insulated from conductive enclosure of control gear by supplementary insulation		N/A
- (12.2.4)	**Other circuits**		N/A
	Other circuits insulated from conductive enclosure of control gear by basic insulation		N/A
- (12.3)	**Metal core printed circuits boards (MCPCBs)**		N/A
	Insulation properties of PCBs over metallic substrate are considered as single level of insulation (basic or supplementary)		N/A
- (12.4)	**Interrupted DC output**		N/A
	Independent or built-in safety isolating control gear providing interrupted DC with frequencies 10Hz ≤ f ≤ 200 Hz; output peak voltage ≤ 25V		N/A
- (12.5)	**Control circuits**		P
	Control circuits insulated according to SELV circuits requirements		P

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	Control gear with interfaces in accordance with IEC 62386-101 (DALI):		N/A
	- control circuit insulated from mains supply at least by basic insulation		N/A
	- considered as FELV circuit, insulated from all other circuits accordingly		N/A
	Control gear with interfaces in accordance with IEC 63128 (analogue voltage dimming) or IEC 60929:2011, Cl. E.3 (PWM):		N/A
	- control circuit insulated from mains supply at least by basic insulation		N/A
	- considered as FELV circuit		N/A
	Control gear using other protocols operated with ELV		N/A
	No insulation required where:		N/A
	- control signals injected via supply terminals or circuits connected to supply separate terminal via separate terminal		N/A
	- control signal receiver inside enclosure and signal transmitted remotely via IR or radio transmitter		N/A
	Control circuitry separated from SELV outputs by at least basic insulation		N/A
- (12.6)	**Bridging of insulation**		N/A
- (12.6.1)	**Resistors**		N/A
	Use of one resistor for bridging of basic or supplementary insulation		N/A
	Use of at least two series connected resistors for bridging of double or reinforced insulation		N/A
	Resistors comply with IEC 62368-1:2023, Cl. G.10		N/A
- (12.6.2)	**Capacitors**		N/A
	Use of Y capacitors according to Table 11 for bridging of insulation		N/A
	Y capacitors comply with relevant requirements of IEC 60384-14		N/A
- (12.7)	**Built-in control gear with basic insulation and built-in control gear with double insulation**		N/A
	Double or reinforced insulation between hazardous live parts and control gear enclosure		N/A
	Double or reinforced insulation between hazardous live parts and mounting surface for control gear without enclosure		N/A

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	Basic insulation between hazardous live parts and control gear enclosure		N/A
- (12.8)	**Transformers**		N/A
- (12.8.1)	**General**		N/A
	Transformers comply with IEC 61558-1:2017, cl.19.1 and 19.12		N/A
- (12.8.2)	**Components**		N/A
	Components used as protective devices with working frequencies ≤ 500Hz comply with relevant requirements in IEC 61558-1:2017, cl. 20.7 - 20.12		N/A
- (12.9)	**Independent control gear**		N/A
	Measured distance between input and output terminals ≥16 mm .....:		N/A
13 (13)	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION**		N/A
14 (14)	**SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS**		P
- (14.2)	**Electrical connections**		P
	Contact pressure		P
- (14.3)	**Self-tapping and thread-cutting screws**		N/A
	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
- (14.4)	**Locking against loosening**		N/A
	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
	-sealing compound		N/A
- (14.5)	**Current-carrying parts**		P
	Material of current-carrying parts		P

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

- (14.6)	**Mechanical stress resistance**		N/A
	Screws not made of soft material		N/A
	Screws of insulating material for maintenance purposes		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A

15 (15)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		P
- (15.1)	Ball-pressure test .....:	See Test Table 15 (15.1)	P
- (15.2.2)	Glow-wire test .....:	See Test Table 15 (15.2.2)	P
- (15.2.3)	Needle-flame test .....:	See Test Table 15 (15.2.3)	P
- (15.2.4)	Test of printed boards .....:	See Test Table 15 (15.2.4)	N/A
- (15.3)	Tracking test .....:	See Test Table 15 (15.3)	N/A

16 (16)	**THERMAL REQUIREMENTS**		P
- (16.1.2)	**Built-in control gear**		N/A
	Test made with control gear positioned according to Fig.8 in draught-proof test chamber according to Annex D		N/A
- (16.1.3)	**Integral control gear**		P
	Control gear tested assembled in luminaire under conditions in IEC 60598 series		P
- (16.1.4)	**Independent control gear**		N/A
	Control gear tested in draught-proof test chamber according to Annex D		N/A
- (16.2)	**Normal operation**		P
	Control gear and mounting surfaces do not attain excessive temperature according to Table 19	(See main test report)	P

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

- (16.3)	**Abnormal operation**		N/A
	Control gear does not become unsafe and temperatures do not exceed values according to Table 20	(See Annex 2)	N/A
- (16.3.2)	Short-circuited output terminals		N/A
- (16.3.3)	Control gear with fuse in accordance with IEC 60269-2, IEC 60269-3 or equivalent		N/A
- (16.3.4)	Control gear with miniature fuse in accordance with IEC 60127 series or equivalent		N/A
- (16.3.5)	Control gear with another overload protective device		N/A
- (16.3.1)	Electric strength test according to cl.10.3		N/A
- (16.3.1)	No defect, smoke or flammable gases according to cl.10.3		N/A
17 (-)	**Output working voltage (U_{out})**		N/A
	Voltage in output terminals not exceeded output working voltage U_{out} under any load conditions		N/A

11 (11)	**TABLE: tests of fault conditions**	P
Part	Simulated fault	Hazard
Electrolytic capacitor	Short circuited	NO
Q4	Short circuited	NO
Diode	Short circuited	NO
IC	Short circuited	NO

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

13 (13)	**TABLE: clearance and creepage distance measurements (mm)**	N/A

15 (15.1)	**TABLE: Ball Pressure Test of Thermoplastics**			P
Allowed impression diameter (mm) .....:		2		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Supplementary information: See main test report.				

15 (15.2.2)	**TABLE: Resistance to heat and fire - Glow wire tests**				P
Object/ Part No./ Material	**Manufacturer/ trademark**	**GWT (°C): 650**			**Verdict**
		t_E (s)	**t_i (s)**	**t_R (s)**	
Single layer of tissue placed underneath the test specimen does not ignite					P
Supplementary information: See main test report.					

15 (15.2.3)	**TABLE: Needle- flame test**				P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Supplementary information: See main test report.					

15 (15.2.4)	**TABLE: Test of printed boards**				N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
Supplementary information: V-0.					

15 (15.3)	**TABLE: Proof tracking test**	N/A
Test voltage PTI .....:	175V	

Attachment 4: Additional requirement of IEC/EN IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens	Verdict
Supplementary information: —			

Annex 3	**Screw terminals (part of the control gear)**	N/A
(14)	**SCREW TERMINALS**	N/A

Annex 4	**Screwless terminals (part of the control gear)**	N/A
(15)	**SCREWLESS TERMINALS**	N/A

(15.6.3.1) **(15.6.3.2)**	**TABLE: Contact resistance test / Heating tests**	N/A

--- End of Attachment 4 ---

Attachment 5: Additional requirement of EN IEC 62031			
Clause	Requirement + Test	Result - Remark	Verdict

4	**GENERAL REQUIREMENTS**		**P**
4.2	Classification		P
	Built-in module .....:	Yes ☐ No ☒	—
	Independent module.....:	Yes ☐ No ☒	—
	Integral module .....:	Yes ☒ No ☐	—
4.6	Independent modules comply with requirements in IEC 60598-1:2014/AMD1:2017		N/A
4.8	Modules with integrated controlgear providing SELV comply with requirements according to IEC 61347-1:2015/AMD1:2017 clause L.5 to L.11.	(see Annex 1)	N/A

6	**MARKING**		**N/A**
6.2	**Contents of marking for built-in and for independent LED modules**		N/A

7	**TERMINALS**		**N/A**
7.1	**Integral terminals**		N/A
	Screw terminals comply with section 14 of IEC 60598-1	(see Annex 3)	N/A
	Screwless terminals comply with section 15 of IEC 60598-1	(see Annex 4)	N/A
7.2	**Terminals other than integral terminals**		N/A
	Separately approved; component list	(see Annex 2)	N/A
	Ratings suit the conditions		N/A
	Satisfy additional relevant requirements of this standard		N/A

8 (9)	**EARTHING**		**N/A**
- (9.1)	**Provisions for protective earthing**		N/A

9 (10)	**PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS**		N/A

10 (11)	**MOISTURE RESISTANCE AND INSULATION**		**P**
	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (MΩ):		P
	For basic insulation ≥ 2 MΩ .....:	100 MΩ	P
	For double or reinforced insulation ≥ 4 MΩ .....:		N/A
	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1		N/A

Attachment 5: Additional requirement of EN IEC 62031			
Clause	Requirement + Test	Result - Remark	Verdict

11 (12)	**ELECTRIC STRENGTH**		**P**
	Immediately after clause 11 electric strength test for 1 min		P
	Basic insulation for SELV, test voltage 500 V		P
	Working voltage ≤ 50 V, test voltage 500 V		P
	Working voltage > 50 V ≤ 1000 V, test voltage (V):		N/A
	Basic insulation, 2U + 1000 V		N/A
	Supplementary insulation, 2U + 1000 V		N/A
	Double or reinforced insulation, 4U + 2000 V		N/A
	No flashover or breakdown		P
	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1		N/A

12 (14)	**FAULT CONDITIONS**		**P**
- (14.1)	When operated under fault conditions the controlgear:		P
	- does not emit flames or molten material		P
	- does not produce flammable gases		P
	- protection against accidental contact not impaired		P
	Thermally protected controlgear does not exceed the marked temperature value		N/A
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	N/A
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (after any reduction in 14.2 - 14.5)	(see appended table)	N/A
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	P
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N/A
- (14.5)	Short-circuit across electrolytic capacitors	(see appended table)	N/A
	Short-circuit or interruption of SPDs	(see appended table)	N/A
- (14.6)	After the tests has been carried out on three samples:		P
	The insulation resistance ≥ 1 MΩ .....:	100 MΩ	P
	No flammable gases		P
	No accessible parts have become live		P
	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite		P

Attachment 5: Additional requirement of EN IEC 62031			
Clause	Requirement + Test	Result - Remark	Verdict
- (14.7)	Relevant fault condition tests with high-power a.c. supply and in turn to a d.c. supply		—
12.2	**Overpower condition**		**P**
	Module withstands overpower condition >15 min.		P
	Module with automatic protective device or power limiter, test performed 15 min. at limit.		N/A
	No fire, smoke or flammable gas is produced		P
	Molten material does not ignite tissue paper, spread below the module		P
14 (15)	**CONSTRUCTION**		**P**
- (15.1)	**Wood, cotton, silk, paper and similar fibrous material**		**P**
	Wood, cotton, silk, paper and similar fibrous material not used as insulation		P
- (15.2)	**Printed circuits**		**N/A**
	Printed circuits used as internal connections complies with clause 14		N/A
15 (16)	**CREEPAGE DISTANCES AND CLEARANCES**		**N/A**
16 (17)	**SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS**		**P**
	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)		—
(4.11)	**Electrical connections**		**P**
(4.11.1)	Contact pressure		P
(4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
(4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
(4.11.4)	Material of current-carrying parts		P
(4.11.5)	No contact to wood or mounting surface		P
(4.11.6)	Electro-mechanical contact systems		N/A
(4.12)	**Mechanical connections and glands**		N/A
(4.12.1)	Screws not made of soft metal		N/A
	Screws of insulating material		N/A
	Torque test: torque (Nm); part.....:		N/A

Attachment 5: Additional requirement of EN IEC 62031			
Clause	Requirement + Test	Result - Remark	Verdict
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
(4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
(4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm) .....:		N/A
	- lampholder; torque (Nm) .....:		N/A
	- push-button switches; torque 0,8 Nm.....:		N/A
(4.12.5)	Screwed glands; force (Nm).....:		N/A
17 (18)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		**N/A**
- (18.1)	Ball-pressure test .....:		N/A
- (18.2)	Test of printed boards .....:		N/A
- (18.3)	Glow-wire test (650°C) .....:		N/A
- (18.4)	Needle-flame test (10 s) .....:		N/A
- (18.5)	Proof tracking test .....:		N/A
18	**RESISTANCE TO CORROSION**		**P**
	Comply with requirements according 4.18 of IEC 60598-1		P
20	**HEAT MANAGEMENT**		**N/A**
22	**PHOTOBIOLOGICAL SAFETY**		
22.1	**UV radiation**		P
	Luminous radiation not exceed 2mW/klm		P
22.2	**Blue light hazard**		**P**
	Assessed according to IEC TR 62778	RG0	P
22.3	**Infrared radiation**		N/A
	Requirements for infrared radiation when required		N/A
A	**ANNEX A - TESTS**		**P**
	All tests performed in accordance with the advice given in Annex H of IEC 61347-1, if applicable		P
12 (14)	**TABLE: tests of fault conditions**		**P**
Part	**Simulated fault**		**Hazard**
One LED	Short circuit		No

Attachment 5: Additional requirement of EN IEC 62031			
Clause	Requirement + Test	Result - Remark	Verdict
One LED	Open circuit		No
15 (16)	**TABLE: clearance and creepage distance measurements (mm)**		N/A
17 (18.1)	**TABLE: Ball Pressure Test of Thermoplastics**		N/A
17 (18.2)	**TABLE: Test of printed boards**		**N/A**
17 (18.3)	**TABLE: Glow-wire test**		**N/A**
17 (18.4)	**TABLE: Needle-flame test**		N/A
17 (18.5)	**TABLE: Proof tracking test**		**N/A**
(A)	**ANNEX A - TEST TO ESTABLISH WHETHER A CONDUCTIVE PART IS A LIVE PART WHICH MAY CAUSE AN ELECTRIC SHOCK**		**N/A**
ANNEX 1	**LED MODULES WITH INTEGRAL CONTROLGEAR PROVIDING SELV**		**N/A**

--- End of Attachment 5---

Attachment 6: Additional test for IEC TR 62778: 2014

TABLE: Spectroradiometric measurement		
Measurement performed on:	☐ **LED package** ☐ **LED module** ☐ **Lamp** ☒ **Luminaire**	—
Model number .....:	LP800Bi (working mode: 2800 K)	—
Test voltage (V) .....:	240	—
Test frequency (Hz) .....:	50	—
Ambient, t (°C) .....:	25	—
Measurement distance.....:	☒ 20 cm ☐ ... cm	—
Source size .....:	☒ Non-small ☐ Small : .... mm	—
Field of view .....:	☐ 100 mrad ☒ 11 mrad (for small sources) ☐ 1,7 mrad (for small sources)	—

Item	Symbol	Units	Result	Remark
Correlated colour temperature	CCT	K	—	—
x/y colour coordinates	—	—	0,4473 / 0,0,4141	—
Blue light hazard radiance	L_B	$W/(m^2 \cdot sr^1)$	2,512	—
Blue light hazard irradiance	E_B	W/m^2	—	—
Luminance	L	cd/m^2	$9,665 \times 10^3$	—
Illuminance	E	lx	7734	—
Supplementary information: —				

RISK GROUP CLASSIFICATION		—
Risk group achieved:		P
-...Risk Group 0 unlimited		P
-...Risk Group 1 unlimited		N/A
- E_{thr} ..... (lx) : Distance to reach RG1..... (m) :		N/A

Attachment 6: Additional test for IEC TR 62778: 2014

TABLE: Spectroradiometric measurement		
Measurement performed on:	☐ **LED package** ☐ **LED module** ☐ **Lamp** ☒ **Luminaire**	—
Model number .....:	LP800Bi (working mode: 6500 K)	—
Test voltage (V) .....:	240	—
Test frequency (Hz) .....:	50	—
Ambient, t (°C) .....:	25	—
Measurement distance.....:	☒ 20 cm ☐ ... cm	—
Source size .....:	☒ Non-small ☐ Small : .... mm	—
Field of view .....:	☐ 100 mrad ☒ 11 mrad (for small sources) ☐ 1,7 mrad (for small sources)	—

Item	Symbol	Units	Result	Remark
Correlated colour temperature	CCT	K	—	—
x/y colour coordinates	—	—	0,3045 / 0,0,3144	—
Blue light hazard radiance	L_B	$W/(m^2 \cdot sr^1)$	1,148 x 10	—
Blue light hazard irradiance	E_B	W/m^2	—	—
Luminance	L	cd/m^2	$1,2 \times 10^4$	—
Illuminance	E	lx	8972	—

Supplementary information: —

RISK GROUP CLASSIFICATION		—
Risk group achieved:		P
-...Risk Group 0 unlimited		P
-...Risk Group 1 unlimited		N/A
- E_{thr} ..... (lx) : Distance to reach RG1..... (m) :		N/A

- - - End of Attachment 6- - -

Attachment 7: Photo documentation

Details of: General view

View:

☒ general

☐ front

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☐ bottom



Details of: General view

View:

☒ general

☐ front

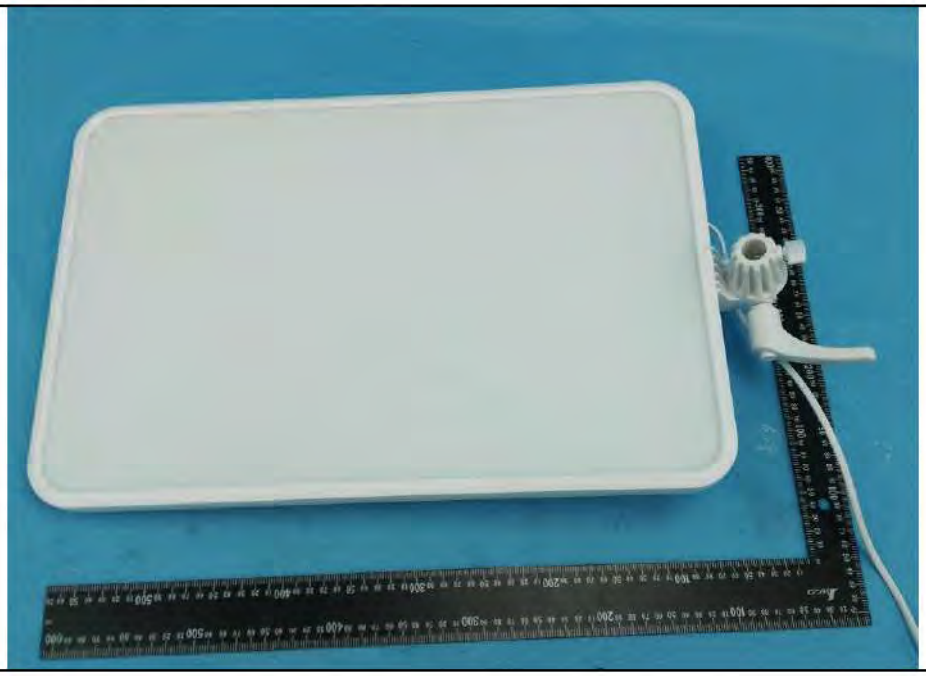
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Attachment 7: Photo documentation

Details of: General view

View:

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☐ front

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Details of: General view

View:

☒ general

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Attachment 7: Photo documentation

Details of: Detail view

View:

☒ general

☐ front

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Details of: Detail view

View:

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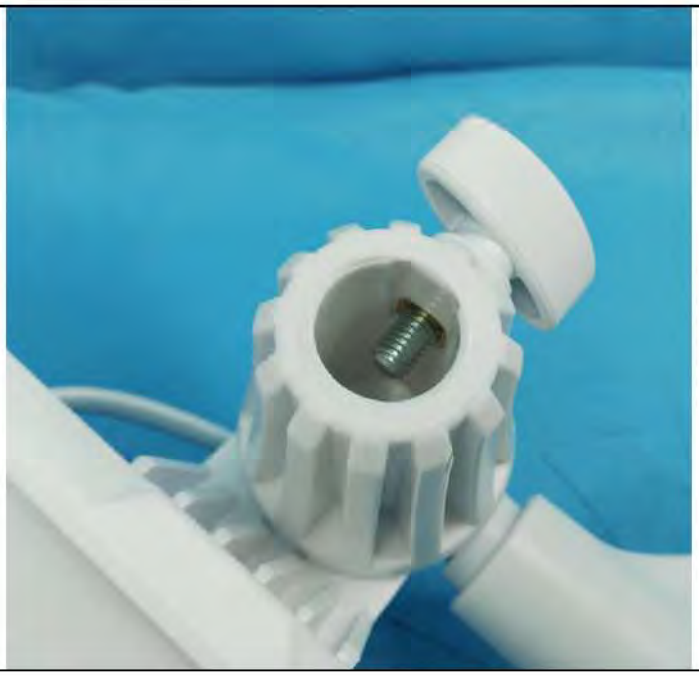


Attachment 7: Photo documentation

Details of: Detail view

View:

- ☒ general
- ☐ front
- ☐ rear
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Details of: Internal view

View:

- ☒ general
- ☐ front
- ☐ rear
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Attachment 7: Photo documentation

Details of: Internal view

View:

☒ general

☐ front

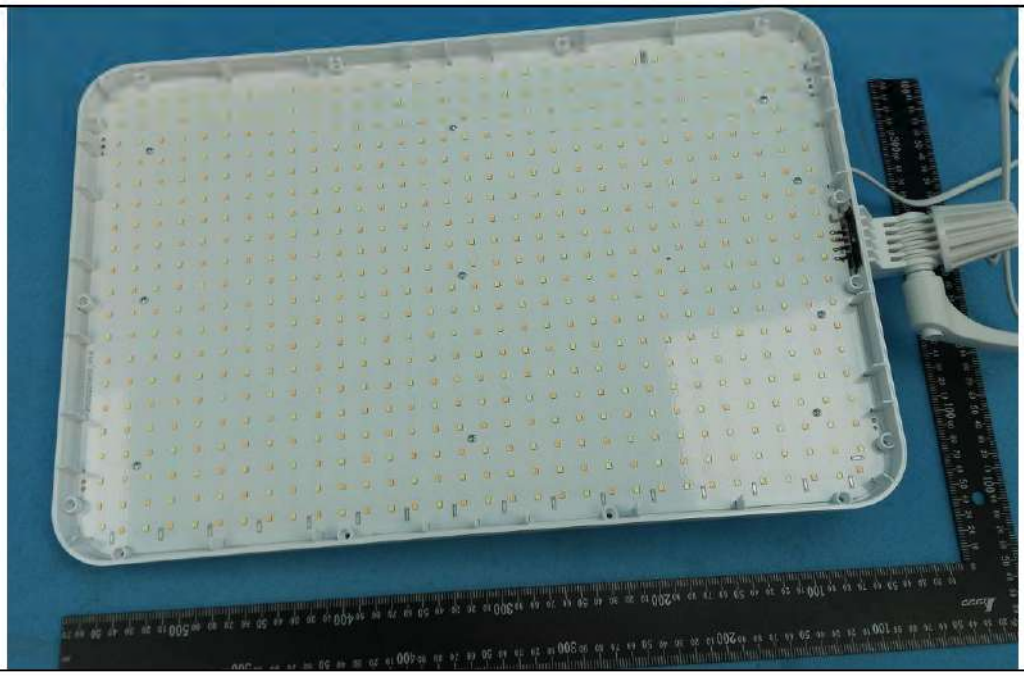
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Details of: Detail view

View:

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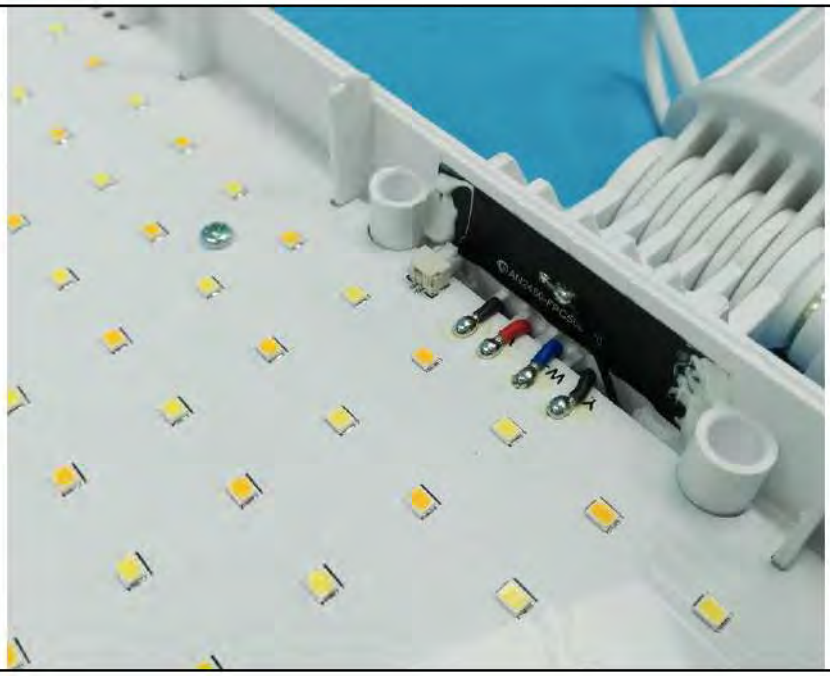
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Attachment 7: Photo documentation

Details of: Internal view

View:

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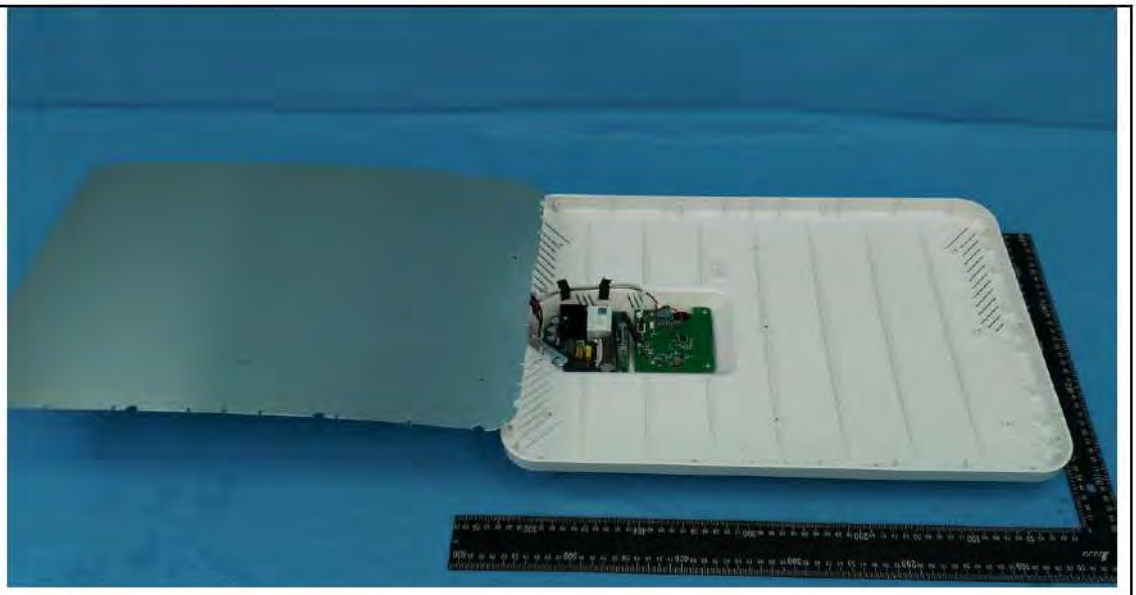
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Details of: Internal view

View:

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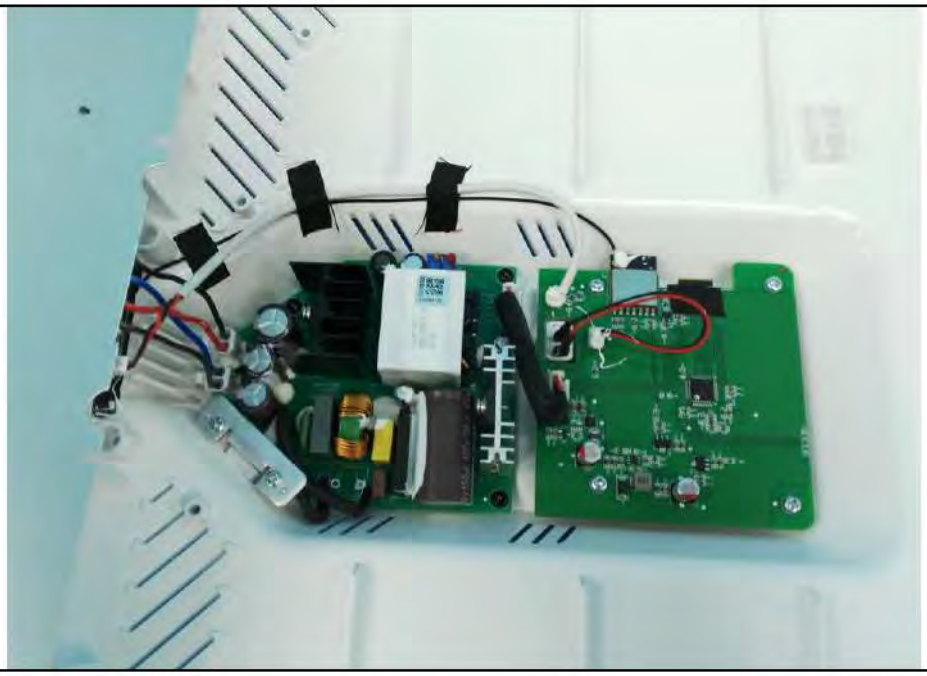
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Attachment 7: Photo documentation

Details of: Cord anchorage view

View:

☒ general

☐ front

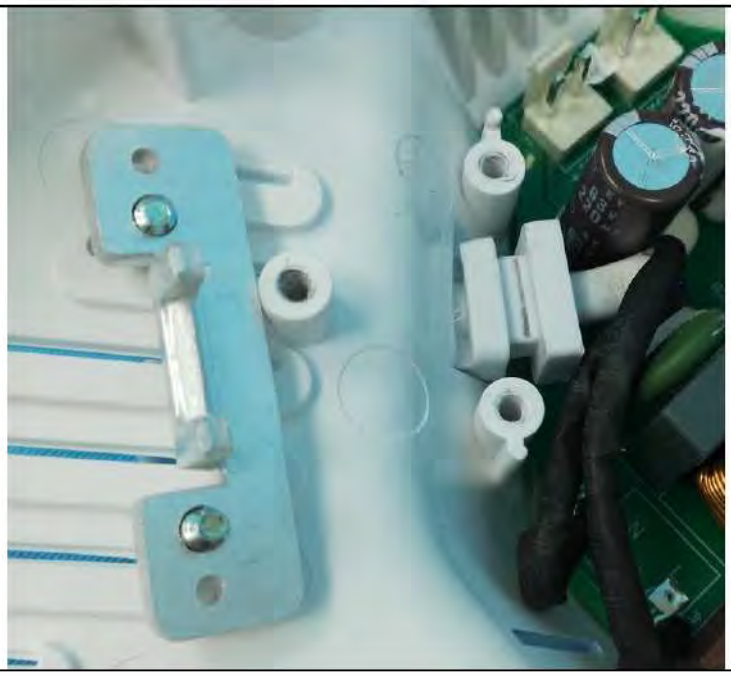
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Details of: Detail view

View:

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Attachment 7: Photo documentation

Details of: LED driver view

View:

☒ general

☐ front

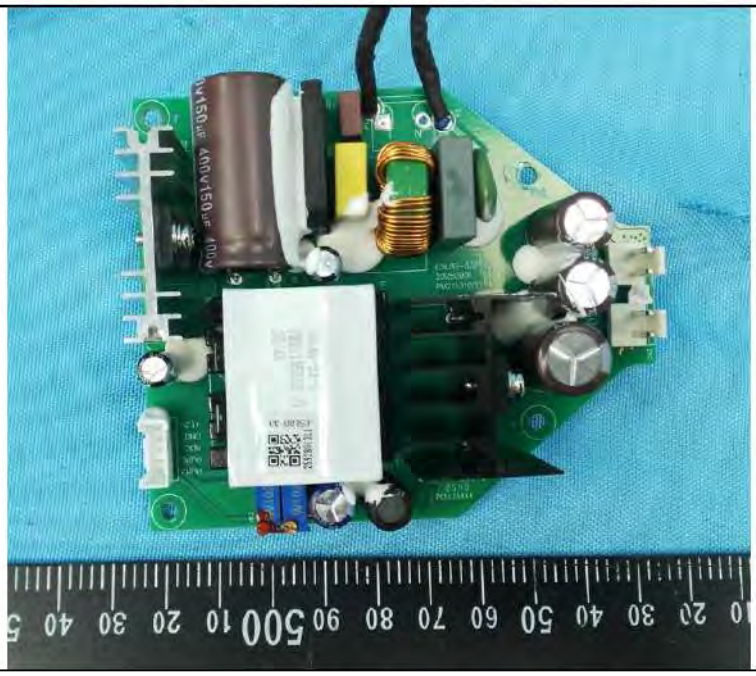
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Details of: LED driver view

View:

☒ general

☐ front

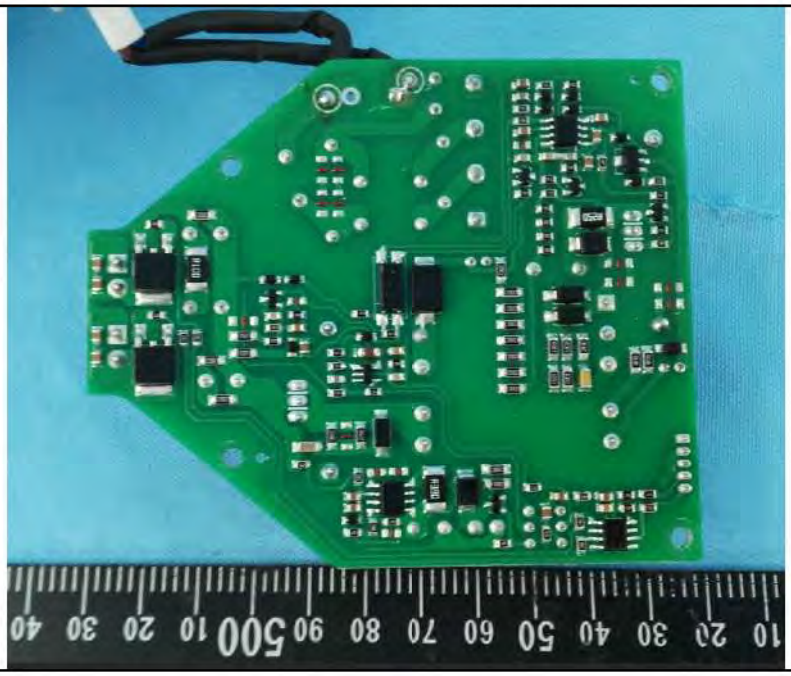
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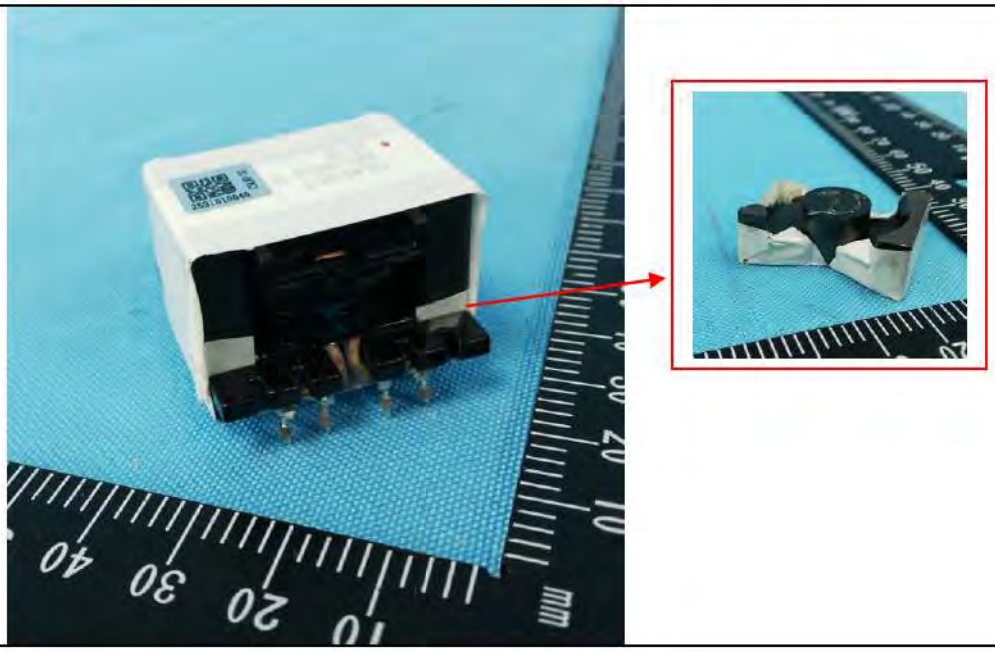


Attachment 7: Photo documentation

Details of: Transformer

View:

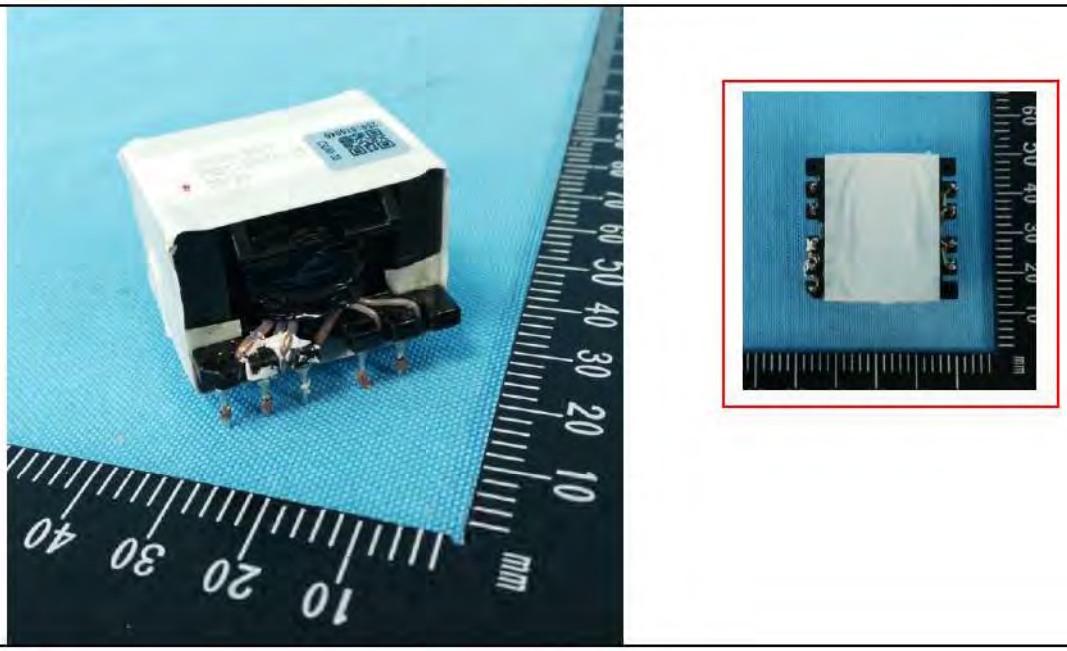
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Details of: Transformer

View:

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- ☐ front
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Attachment 7: Photo documentation

Details of: Transformer

View:

☒ general

☐ front

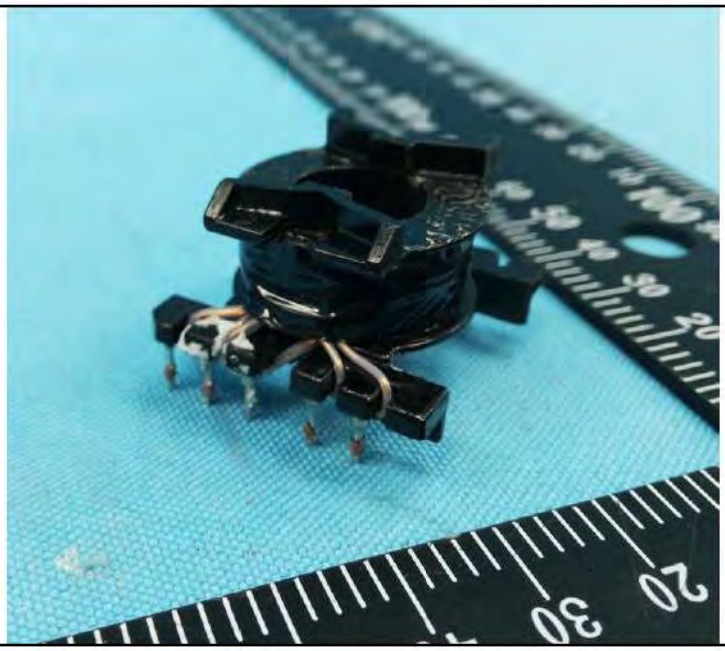
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Details of: Primary winding, not touch with Secondary winding of transformer (all primary windings and Secondary windings are isolated by at least two layers of insulating tape)

View:

☒ general

☐ front

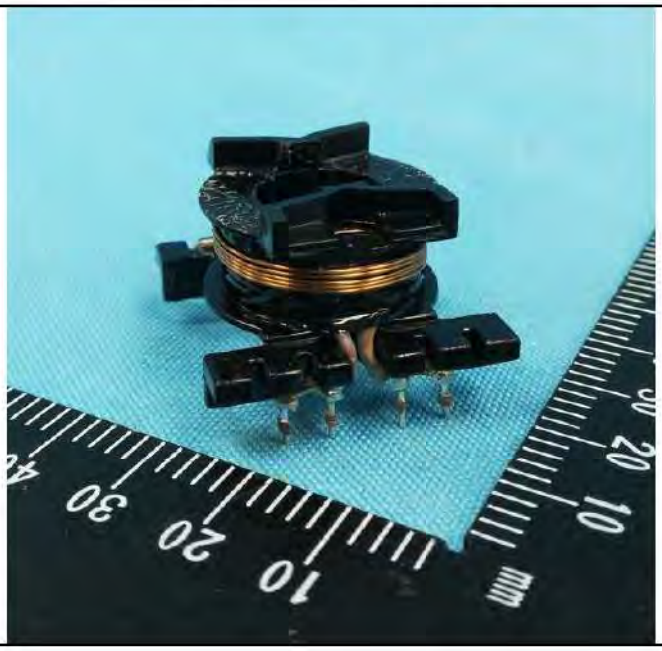
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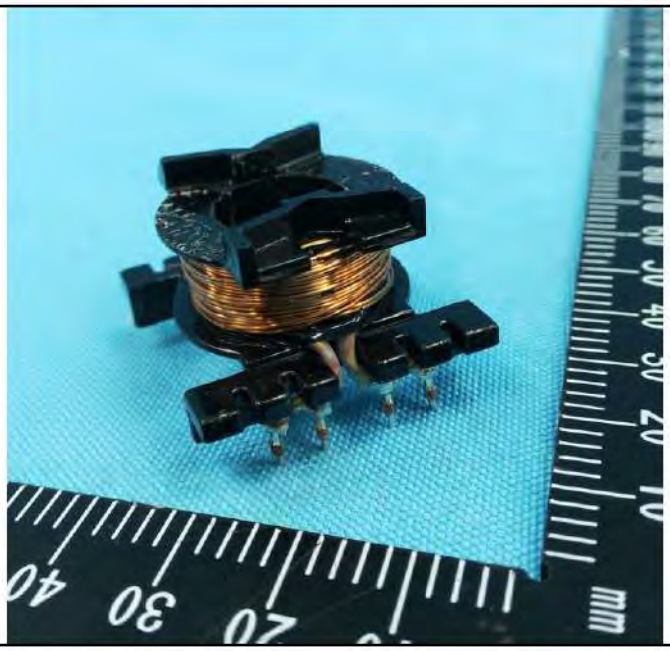
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Attachment 7: Photo documentation

Details of: Primary winding of transformer, not touch with secondary winding

View:
- ☒ general
- ☐ front
- ☐ rear
- ☐ right
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- ☐ bottom



Details of: Secondary winding of transformer, not touch with Primary winding

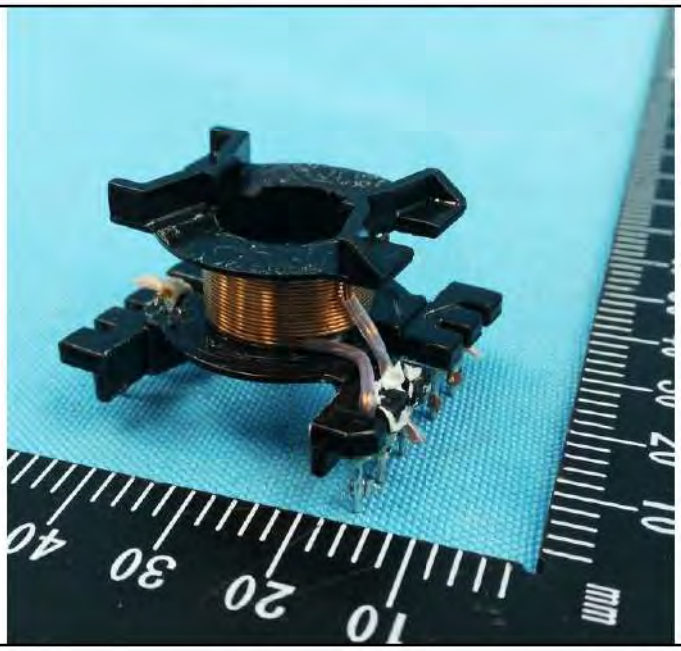
View:
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- ☐ bottom



Attachment 7: Photo documentation

Details of: Primary winding of transformer, not touch with secondary winding

View:
- ☒ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☐ bottom



Details of: Bobbin

View:
- ☒ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☐ bottom



Attachment 7: Photo documentation

Details of: Control circuit PCB

View:

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Details of: Control circuit PCB

View:

☒ general

☐ front

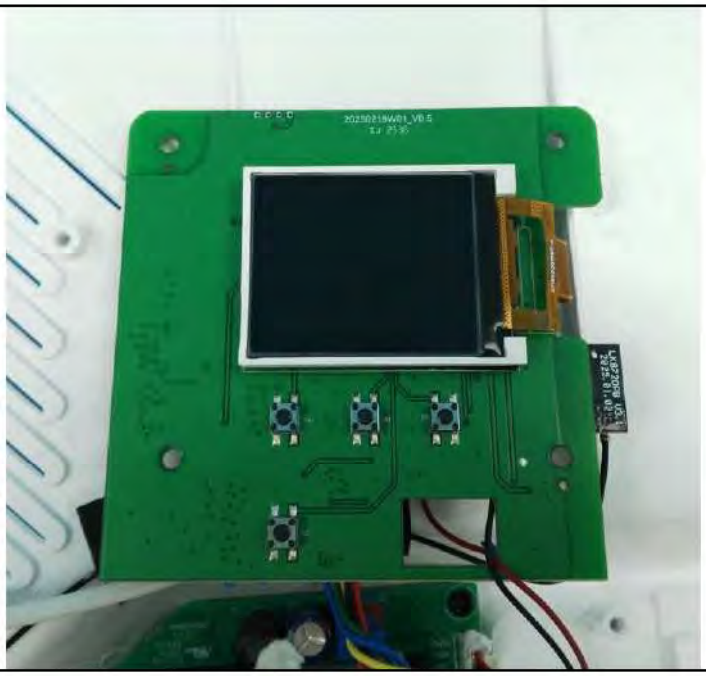
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Attachment 7: Photo documentation

Details of: Internal view

View:

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☐ front

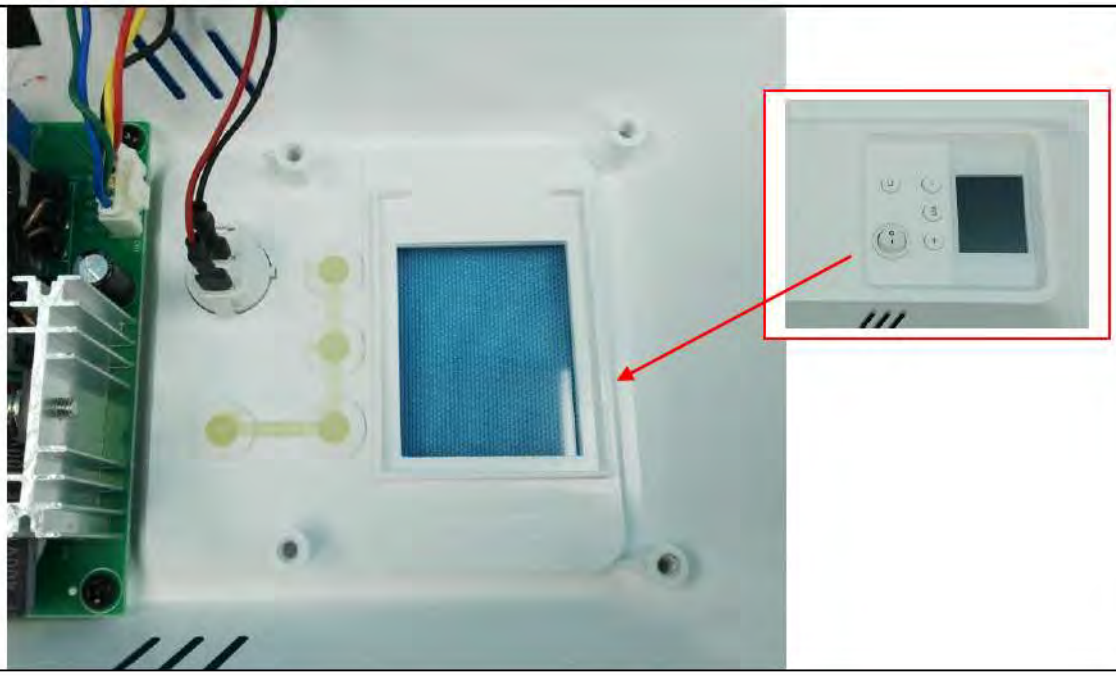
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Details of: Tripod

View:

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Attachment 7: Photo documentation

Details of: Tripod

View:

- ☒ general
- ☐ front
- ☐ rear
- ☐ right
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--- End of Attachment 7---