



Test Report issued under the responsibility of:
Łukasiewicz - IMiF PREDOM Division

Testing Laboratory of IMiF PREDOM Division
Certificate PCA No. AB 003

TEST REPORT
IEC 60598-2-3
Luminaires
Part 2: Particular requirements
Section 3: Luminaires for road and street lighting

Report Number..... : B5-3/117/B/24
Date of issue..... : 2024-09-23
Total number of pages 65 + Attachment No. 1 (List of LED's and electronic led driver's system)

Name of Testing Laboratory preparing the Report Łukasiewicz - IMiF PREDOM Division
02-255 Warszawa, ul. Krakowiaków 53, Poland

Applicant's name LUG Light Factory Sp z.o.o.
Address..... : 65-127 Zielona Góra, ul. Gorzowska 11, Poland

Test specification:

Standard IEC 60598-2-3:2002, IEC 60598-2-3:2002/AMD1:2011 used in conjunction with IEC 60598-1:2020
Test procedure CB Scheme
Non-standard test method N/A

TRF template used..... : IECEE OD-2020-F1:2021, Ed.1.4
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Test item description..... :	Luminaires for road and street lighting	
Trade Mark(s) :	LUG	
Manufacturer :	LUG Light Factory Sp z.o.o. Gorzowska 11; 65-127 Zielona Góra - Poland	
Model/Type reference :	URBINO LED S family cl I – series – see also “General product information	
Ratings :	220-240V, 50/60Hz, IP66, IK10, ta 50 °C or 55°C, cl.I – details see pages 4 - 7	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☐	CB Testing Laboratory:	Łukasiewicz - IMiF PREDOM Division
Testing location/ address..... :		02-255 Warszawa, ul. Krakowiaków 53, Poland
Tested by (name, function, signature)..... :		J. Śmigrodzki
Approved by (name, function, signature).... :		T. Małyska
 		
☐	Testing procedure: CTF Stage 1:	
Testing location/ address..... :		
Tested by (name, function, signature)..... :		
Approved by (name, function, signature).... :		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address..... :		
Tested by (name + signature) :		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature).... :		
☐	Testing procedure: CTF Stage 3:	
☐	Testing procedure: CTF Stage 4:	
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 No. 1 (Report Reference No. B5-3/117/B/1/24 - 2 pages)	
Summary of testing: Positive <i>According to ISO / IEC Guide 98-4 for the assessment of compliance of the measurement result with the requirements, criterion B was chosen. 50% risk of incorrect assessment decision belongs to the customer and 50% risk of incorrect assessment belongs to the laboratory</i>	
Tests performed (name of test and test clause): IEC 60598-2-3:2002, IEC 60598-2-3:2002/AMD1: 2011 used in conjunction with IEC 60598-1:2020 - all clauses	Testing location: Łukasiewicz - IMiF PREDOM Division 02-255 Warszawa, ul. Krakowiaków 53, Poland
Summary of compliance with National Differences (List of countries addressed): See Attachment No. 1 to this Test Report (Report Reference No. B5-3/117/B/1/24 - 2 pages)	
☒ The product fulfils the requirements of EN 60598-2-3:2003 + A1:2011 used in conjunction with 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:



Test item particulars.....: Luminaire for road and street lighting	
Classification of installation and use.....: Normal use	
Supply Connection Connector	
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 2024-08-08 Date (s) of performance of tests 2024-08-08 - 2024-09-23	
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	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60598-1:	
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) : LUG Light Factory Sp. z o.o. ul. Gorzowska 11 65-127 Zielona Góra Poland	

General product information and other remarks:*Ogólne informacje o produkcie i inne uwagi:*

Nazwa i adres posiadacza certyfikatu: <i>Name and address of the license holder:</i>	LUG Light Factory Sp z o.o. ul. Gorzowska 11; 65-127 Zielona Góra - Poland
Nazwa i adres producenta: <i>Name and address of manufacturer:</i>	LUG Light Factory Sp z o.o. ul. Gorzowska 11; 65-127 Zielona Góra - Poland
Nazwa i adres miejsca produkcji: <i>Name and address of manufacturing place:</i>	LUG Light Factory Sp z o.o. ul. Gorzowska 11; 65-127 Zielona Góra - Poland
Nazwa wyrobu: <i>Name of the product:</i>	Luminaires for road and street lighting
Typ (model): <i>Type (model):</i>	URBINO LED S
Znak handlowy: <i>Trade mark:</i>	LUG
Dane techniczne: <i>Technical data</i>	
<i>Rated voltage</i>	220-240V
<i>Rated frequency:</i>	50/60Hz
<i>Protection against electric shock:</i>	Class I
<i>Degree of protection:</i>	IP66. IK10
<i>ta</i>	4,5W - 36W - Ta= -40°C / -35°C* / -30°C** ... +55°C
	37W - 76W - Ta= -40°C / -35°C* / -30°C**/-25°C*** ... +50°C

* - For luminaires equipped with:

- Vossloh Schwabe SP/230/10K/i

** - For luminaires equipped with:

- SPD Vossloh Schwabe SP/230/10K
- Xi FP 110W 0.3-0.1A NLP C150 230V
- Tridonic LCA 120W 300-1050mA

*** - For luminaires equipped with:

- LACROIX DL-PAK 70

Choice sheet of the luminaires Urbino LED S cl. I series:*Zbiór możliwości opraw Urbino LED S kl.I – seria***Example of symbol:***Przykładowy symbol (na naklejce):*

130772.7LR7B40S895.101.B.N.V.P.K.O

1 2 3 4 5 6 7 8 9

Designations used on the marking of luminaires (some designation may not appear in the name):
(Oznaczenia stosowane na naklejce znamionowej opraw (niektóre oznaczenia mogą nie występować w nazwie)):

1. 13077
13078

- Code of the series URBINO LED S - XPG3 SERIES *(Kod rodziny)*
- Code of the series URBINO LED S - LUXEON SERIES *(Kod rodziny)*

2. 2

- Color *(Kolor):*
- 2: grey

3. 7L	5: graphite 0: another - Control type (<i>Typ sterowania</i>): 2L - DIMM 1-10V 3L - DALI 5L - on-off 6L - on-off / DALI 7L - ZHAGA D4i PL - programmable
4. R7	- CRI: R7 = 70-79 R8 = 80-89
5. B40	- Color temperature (<i>Temperatura barwowa</i>): B22 = 2200 B27 = 2700 B30 = 3000 B40 = 4000 B57 = 5700 B65 = 6500
6. S895	- Luminous flux (<i>Strumień świetlny</i>) (e.g. (<i>Przykład</i>) 895 = 8950lm)
7. 1	- Safety Class I (<i>Klasa ochronności</i>)
8. 01	- Optic type – for road lighting (<i>Typ optyki – dla opraw ulicznych</i>) 01 to 99
9. B.N.V.P.K.O	- Additional equipment (<i>Dodatkowe wyposażenie</i>): A - additional corrosion protection (<i>Dodatkowa ochrona przed korozją</i>) B - Tool-free access to the LED Driver (<i>Beznarzędziowy dostęp do sterownika LED</i>) U - ø76mm pole (<i>ø76mm słup</i>) N - NEMA Socket (<i>Łącze NEMA</i>) Z - ZHAGA Socket (<i>Łącze ZHAGA</i>) T - NTC Sensor (<i>Czujnik NTC</i>) W - Twilight Sensor (<i>Czujnik zmierzchu</i>) V - Surge Device Protector 10kV (<i>Zabezpieczenie przeciwprzepięciowe 10kV</i>) Y - Surge Device Protector 20kV (<i>Zabezpieczenie przeciwprzepięciowe 20kV</i>) P- Anti pressure vent (<i>Odpowietrznik przeciwcisnieniowy</i>) I- iBloc ("URBAN" smart city system) (<i>System inteligentnego miasta „URBAN”</i>) K- Knife switch connector (<i>Złącze nożowe</i>) C - RAL Color (<i>Kolor RAL</i>) O - Investment luminaire (<i>Oprawa inwestycyjna</i>)

List of LED's and electronic led driver's system**See Attachment No. 1**

After review of technical documentation, model series, characteristic of particular models, differences between models, technical parameters, class of luminaires, IP code, light sources, components, etc., luminaires: 130782.5LR7B40S1130.117, has been tested as the representative of all models of luminaires.

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.2 (0)	GENERAL TEST REQUIREMENTS		P
3.2 (0.3)	More sections applicable	Yes ☐ No ☒ Section/s:	—
3.2 (0.5)	Components	(see Annex 1)	—
3.2 (0.7)	Information for luminaire design in light sources standards		—
3.2 (0.7.2)	Light source safety standard	EN62031	—
	Luminaire design in the light source safety standard		P

3.4 (2)	CLASSIFICATION OF LUMINAIRES		P
3.4 (2.2)	Type of protection	Class I	P
3.4 (2.3)	Degree of protection	IP66	P
3.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes ☒ No ☐	—
3.4 (2.5)	Luminaire for normal use	Yes ☒ No ☐	—
	Luminaire for rough service	Yes ☐ No ☒	—
3.4 (-)	Modes of installation of road or street lighting		—
	a) on a pipe	Yes ☒ No ☐	—
	b) on a mast arm	Yes ☒ No ☐	—
	c) on a post top	Yes ☒ No ☐	—
	d) on span or suspension wires	Yes ☐ No ☒	—
	e) on a wall	Yes ☐ No ☒	—

3.5 (3)	MARKING		P
3.5 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
3.5 (3.3)	Additional information		P
	Language of instructions		P
3.5 (3.3.1)	Combination luminaires		N/A
3.5 (3.3.2)	Nominal frequency in Hz		P
3.5 (3.3.3)	Operating temperature		P
3.5 (3.3.5)	Wiring diagram		P
3.5 (3.3.6)	Special conditions		N/A
3.5 (3.3.7)	Metal halide lamp luminaire – warning		N/A
3.5 (3.3.8)	Limitation for semi-luminaires		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.5 (3.3.9)	Power factor and supply current		P
3.5 (3.3.10)	Suitability for use indoors		N/A
3.5 (3.3.11)	Luminaires with remote control		N/A
3.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
3.5 (3.3.13)	Specifications of protective shields		N/A
3.5 (3.3.14)	Symbol for nature of supply		P
3.5 (3.3.15)	Rated current of socket outlet		N/A
3.5 (3.3.16)	Rough service luminaire		N/A
3.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments		N/A
3.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
3.5 (3.3.19)	Protective conductor current in instruction if applicable		N/A
3.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
3.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		P
3.5 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
3.5 (3.3.23)	Luminaires without control gear provided with necessary information for selection of appropriate component		N/A
3.5 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
3.5 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided		N/A
3.5 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided		N/A
3.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P
3.5 (-)	Additional information in instruction leaflet		P
	a) Design attitude		P
	b) Weight		P
	c) Overall dimensions		P
	d) Maximum projected area if applicable		P
	e) Cross-sectional area of wires if applicable		N/A
	f) Suitability for indoors use		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	g) Dimensions of the compartment		N/A
	h) Torque setting to be applied to bolts or screws		P
	i) Maximum mounting height		P

3.6 (4)	CONSTRUCTION		P
3.6 (4.2)	Components replaceable without difficulty		P
3.6 (4.3)	Wireways smooth and free from sharp edges		P
3.6 (4.4)	Lampholders		N/A
3.6 (4.4.1)	Integral lampholder		N/A
3.6 (4.4.2)	Wiring connection		N/A
3.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
3.6 (4.4.4)	Positioning		N/A
	- pressure test (N) :	N/A	—
	After test the lampholder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N) :	N/A	—
	After test the lampholder have not moved from its position and show no permanent deformation		N/A
3.6 (4.4.5)	Peak pulse voltage		N/A
3.6 (4.4.6)	Centre contact		N/A
3.6 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
3.6 (4.4.8)	Lamp connectors		N/A
3.6 (4.4.9)	Caps and bases correctly used		N/A
3.6 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
3.6 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
3.6 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
3.6 (4.7)	Terminals and supply connections		P
3.6 (4.7.1)	Contact to metal parts		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.7.2)	Test 8 mm live conductor		P
	Test 8 mm earth conductor		P
3.6 (4.7.3)	Terminals for supply conductors		P
3.6 (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
3.6 (4.7.4)	Terminals other than supply connection		N/A
3.6 (4.7.5)	Heat-resistant wiring/sleeves		N/A
3.6 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
3.6 (4.8)	Switches		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		N/A
3.6 (4.9)	Insulating lining and sleeves		N/A
3.6 (4.9.1)	Retainment		N/A
	Method of fixing :		N/A
3.6 (4.9.2)	Insulated linings and sleeves:		N/A
	Resistant to a temperature > 20 °C to the wire temperature or		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C) :		N/A
3.6 (4.10)	Double or reinforced insulation		N/A
3.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A
3.6 (4.10.2)	Assembly gaps:		N/A
	- not coincidental		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	- no straight access with test probe		N/A
3.6 (4.10.3)	Retainment of insulation:		N/A
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		N/A
	- sleeves retained in position		N/A
	- lining in lampholder		N/A
3.6 (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 appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor		N/A
	Capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
3.6 (4.11)	Electrical connections and current-carrying parts		P
3.6 (4.11.1)	Contact pressure		P
3.6 (4.11.2)	Screws:		P
	- self-tapping screws		P
	- thread-cutting screws		P
3.6 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
3.6 (4.11.4)	Material of current-carrying parts		P
3.6 (4.11.5)	No contact to wood or mounting surface		P
3.6 (4.11.6)	Electro-mechanical contact systems		N/A
3.6 (4.12)	Screws and connections (mechanical) and glands		P
3.6 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part..... :	LED Light Lens: 0,5 Nm	P
	Torque test: torque (Nm); part..... :	Control gear: 0,5 Nm Earthing: 0,5 Nm: 0,5 Nm	P
	Torque test: torque (Nm); part..... :	Spigot: 8 Nm	P
3.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		P
3.6 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm) :		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	- lampholder; torque (Nm)		N/A
	- push-button switches; torque 0,8 Nm		N/A
3.6 (4.12.5)	Screwed glands; force (Nm).....		N/A
3.6 (4.13)	Mechanical strength		P
3.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm)	0,5 Nm	P
	- other parts; energy (Nm)	0,7 Nm	P
	1) live parts		P
	2) linings		N/A
	3) protection		P
	4) covers		P
3.6 (4.13.2)	Metal parts have adequate mechanical strength		N/A
3.6 (4.13.3)	Straight test finger		P
3.6 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	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
3.6 (4.13.6)	Tumbling barrel		N/A
3.6 (4.14)	Suspensions, fixings and means of adjusting		P
3.6 (4.14.1)	Mechanical load:		P
	A) four times the weight		P
	B) torque 2,5 Nm		P
	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
3.6 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)	N/A	—
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Bending moment (Nm) of semi-luminaire		N/A
3.6 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles.....		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A
3.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
3.6 (4.14.5)	Guide pulleys		N/A
3.6 (4.14.6)	Strain on socket-outlets		N/A
3.6 (4.15)	Flammable materials		N/A
	- glow-wire test 650°C	See Test Table 3.15 (13.3.2)	N/A
	- spacing ≥ 30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		N/A
	- thermal protection		N/A
	- electronic circuits exempted		N/A
3.6 (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
3.6 (4.16)	Luminaires for mounting on normally flammable surfaces		P
	No lamp control gear	(compliance with Section 12)	N/A
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
3.6 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
3.6 (4.16.2)	Thermal protection:		P
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear	120°C	P
3.6 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
3.6 (4.17)	Drain holes		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Clearance at least 5 mm		N/A
3.6 (4.18)	Resistance to corrosion		P
3.6 (4.18.1)	- rust-resistance		P
3.6 (4.18.2)	- season cracking in copper		N/A
3.6 (4.18.3)	- corrosion of aluminium		P
3.6 (4.19)	Igniters compatible with ballast		N/A
3.6 (4.20)	Rough service vibration		N/A
3.6 (4.21)	Protective shield		N/A
3.6 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
3.6 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
3.6 (4.21.3)	No direct path		N/A
3.6 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment..... :	See Test Table 3.15 (13.3.2)	N/A
3.6 (4.22)	Attachments to lamps not cause overheating or damage		N/A
3.6 (4.23)	Semi-luminaires comply Class II		N/A
3.6 (4.24)	Photobiological hazards		P
3.6 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
3.6 (4.24.2)	Retinal blue light hazard		P
	Class of risk group assessed according to IEC/TR 62778 :	RG1	—
	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
3.6 (4.25)	Mechanical hazard		P
	No sharp point or edges		P
3.6 (4.26)	Short-circuit protection		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A
3.6 (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
3.6 (4.27)	Terminal blocks with integrated screwless earthing contacts		P
	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
3.6 (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) :	N/A	—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
3.6 (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
3.6 (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
3.6 (4.31)	Insulation between circuits		N/A
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A

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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		N/A
3.6 (4.31.1)	SELV or PELV circuits		N/A
	Used SELV/PELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of SELV/PELV circuits from LV supply		N/A
	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		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
	Plugs and socket-outlets does not have protective conductor contact		N/A
3.6 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage $\leq$ 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 does not have protective conductor contact		N/A
3.6 (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
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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
3.6 (4.32)	Overvoltage protective devices		P
	Comply with IEC 61643-11		P
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
3.6 (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
3.6 (4.34)	Electromagnetic fields (EMF)		N/A
	No harmful electromagnetic fields		N/A
3.6 (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
	-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
3.6 (4.36)	Track-mounted luminaires		N/A
	Test in accordance with Annex A of IEC60570:2003/AMD2:2019		N/A
3.6.1 (-)	At least IP X3 or X5 respectively. IP	IP66	P
	Column-integrated luminaires:		N/A
	- parts below 2,5 m. IP		N/A
	- parts above 2,5 m. IP		N/A
3.6.2 (-)	Suspension on span wires		N/A
3.6.3 (-)	Means for attaching the luminaire or external parts to its support appropriate to the weight		P
3.6.3.1 (-)	Static load test		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- drag coefficient.....:	1,2	P
	- loaded area (m ²).....:	0,0942 m ²	P
	- used load (N).....:	187 N	P
	- measured deformation (cm/m)	< 1 cm/m	P
	- no rotation		P
3.6.4 (-)	Adjustable lampholders		N/A
3.6.5 (-)	Luminaires installed above 5 m, glass covers shall be:		P
	a) glass that fractures into small pieces (test according to 3.6.5.1), or		N/A
	b) glass having a high impact shock resistance (test according to 3.6.5.2), or	See Test Report No. B5-3/121/B/24	P
	c) protected by any means to retain glass fragments		N/A
	For tunnel luminaires 3.6.5.1 apply		N/A
	Method of protection declared by the manufacturer		N/A
3.6.5.1 (-)	Protection by the use of glass that fractures into small pieces		N/A
	- number of particles is more than 40.....:		N/A
3.6.5.2 (-)	Protection by the use of high impact resistant glass		N/A
3.6.5.2.1 (-)	Glass covers have high mechanical strength		N/A
	Test according IEC 62262 with test apparatus according IEC 60068-2-75 with impact energy of 5J on preconditioned sample		N/A
3.6.5.2.2 (-)	Glass covers not break into large pieces		N/A
	- test according 3.6.5.1, number of particles is more than 20		N/A
3.6.6 (-)	Connection compartment of column-integrated luminaire		N/A
	- provides adequate space		N/A
	- means for attachment		N/A
	- means for attachment of metal corrosion-resistant		N/A
3.6.7 (-)	Compliance with ISO standard or other		N/A
3.6.8 (-)	Doors of column-integrated luminaires:		N/A
	- corrosion-resistant		N/A
	- opening only possible for an authorized person		N/A
	- impact test 5 Nm		N/A
	- sample show no damage		N/A
3.6.9 (-)	Column-integrated luminaire:		N/A
	- dimension of the cable entry slot (mm)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- cable path from the slot to the connection compartment (mm)		N/A
	- cable path free from obstruction that might cause abrasion of the cable		N/A

3.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
3.7 (11.2)	Creepage distances and clearances	See Table 3.7 (11.2)	P
	Impulse withstand category (Normal category II) (Category III Annex U, Table U.1)	Category II ☒ Category III ☐	—
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
3.7 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 3.7 (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 3.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 3.7 (11.2) II	N/A
3.7 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 3.7 (11.2) I	P
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P	See Test Table 3.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 3.7 (11.2) II	N/A

3.8 (7)	PROVISION FOR EARTHING		P
3.8 (7.2.1 + 7.2.3)	Accessible metal parts		P
	Metal parts in contact with supporting surface		P
	Resistance < 0,5 Ω	0,02 Ω	P
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		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		P
3.8 (7.2.2 + 7.2.3)	Protective earth continuity in joints, etc.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.8 (7.2.4)	Locking of clamping means		P
	Compliance with 4.7.3		P
3.8 (7.2.5)	Protective earth terminal integral part of connector socket		N/A
3.8 (7.2.6)	Protective earth terminal adjacent to mains terminals		P
3.8 (7.2.7)	Electrolytic corrosion of the protective earth terminal		P
3.8 (7.2.8)	Material of protective earth terminal		P
	Contact surface bare metal		N/A
3.8 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
3.8 (7.2.11)	Protective earthing core coloured green-yellow		P
	Length of earth conductor		P
3.8 (7.2.12)	PELV circuit connected to protective earth for functional purpose		N/A

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

3.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		P
	Separately approved; component list..... :	(see Annex 1)	P
	Part of the luminaire :	(see Annex 4)	N/A

3.10 (5)	EXTERNAL AND INTERNAL WIRING		P
3.10 (5.2)	Supply connection and external wiring		P
3.10 (5.2.1)	Means of connection :	Connector	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
3.10 (5.2.2)	Type of cable :		N/A
	Nominal cross-sectional area (mm ²) :		N/A
	Cables equal to IEC 60227 or IEC 60245		N/A
3.10 (5.2.3)	Type of attachment, X, Y or Z		N/A
3.10 (5.2.5)	Type Z not connected to screws		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.10 (5.2.6)	Cable entries:		P
	- suitable for introduction	Rubber grommet	P
	- adequate degree of protection		P
3.10 (5.2.7)	Cable entries through rigid material have rounded edges		N/A
3.10 (5.2.8)	Insulating bushings:		N/A
	- suitably fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- tubes or guards made of insulating material		N/A
3.10 (5.2.9)	Locking of screwed bushings		N/A
3.10 (5.2.10)	Cord anchorage:		P
	- covering protected from abrasion		P
	- clear how to be effective		P
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
3.10 (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
3.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		N/A
3.10 (5.2.10.3)	Tests:		N/A
	- impossible to push cable; unsafe		N/A
	- pull test: 25 times; pull (N) :		N/A
	- torque test: torque (Nm) :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- displacement ≤ 2 mm		N/A
	- no movement of conductors		N/A
	- no damage of cable or cord		N/A
	- function independent of electrical connection		N/A
3.10 (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 ≤ 25 V RMS/60V DC		N/A
	- Ordinary Class III luminaire supplied with PELV ≤ 12 V RMS/30V DC		N/A
	- Other than ordinary Class III luminaire supplied with voltage ≤ 12 V RMS/30V DC		N/A
	Pull test of 30N		N/A
3.10 (5.2.11)	External wiring passing into luminaire		N/A
3.10 (5.2.12)	Looping-in terminals		N/A
3.10 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
3.10 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
3.10 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)		N/A
3.10 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Appliance inlet or connector systems (IEC 61984)		N/A
3.10 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
3.10 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- other standard		N/A
3.10 (5.3)	Internal wiring		P
3.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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		P
3.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm ²)..... :	0,5 mm ²	P
	Insulation thickness	0,6 mm	P
	Extra insulation added where necessary		N/A
3.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A
	Cross-sectional area (mm ²)..... :		N/A
3.10 (5.3.1.3)	Double or reinforced insulation for class II		N/A
3.10 (5.3.1.4)	Conductors without insulation		N/A
3.10 (5.3.1.5)	SELV/PELV current-carrying parts		N/A
3.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
3.10 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		P
3.10 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
3.10 (5.3.4)	Joints and junctions effectively insulated		N/A
3.10 (5.3.5)	Strain on internal wiring		N/A
3.10 (5.3.6)	Wire carriers		N/A
3.10 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.10 (5.4)	Test to determine suitability of conductors having a reduced cross-sectional area		N/A
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
	No damage to luminaire wiring after test		N/A
3.10.1 (-)	Cord anchorage if applicable		P
	- pull test: 25 times; pull (N):	60 N	P
	- torque test: torque (Nm):	0,25 Nm	P

3.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P
3.11 (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		N/A
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		N/A
	Lamp and starterholders 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		N/A
	Double-ended high pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
3.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
3.11 (8.2.3.a)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.11 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth		N/A
3.11 (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
	- 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		N/A
	Class III luminaire not provided with means for protective earthing		N/A
3.11 (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
3.11 (8.2.4)	Portable luminaire have protection independent of supporting surface		N/A
3.11 (8.2.5)	Compliance with the standard test finger or relevant probe		P
3.11 (8.2.6)	Covers reliably secured		P
3.11 (8.2.7)	Luminaire other than below with capacitor > 0,5 μ F not exceed 50 V 1 min after disconnection		N/A
	Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor > 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection		N/A

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Clause	Requirement + Test		Verdict
3.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
3.12 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) as specified in 3.13		—
3.12 (12.2)	Selection of lamps and ballasts		—
	Lamp used according Annex B	(Lamp used see Annex 2)	—
	Control gear if separate and not supplied	(Control gear used see Annex 2)	—
3.12 (12.3)	Endurance test:		P
	a) mounting-position	as normal use	—
	b) test temperature (°C)	50 + 10°C	—
	c) total duration (h)	240	—
	d) supply voltage (V)	264	—
	d) if not equipped with control gear, constant voltage/current (V) or (A)	N/A	—
3.12 (12.3.1d)	d) Class III luminaires powered via information technology communication cable:		N/A
	- voltage under normal operation (V).....	N/A	—
	- voltage under abnormal operation (V).....	N/A	—
	e) luminaire ceases to operate	N/A	—
	f) luminaire with constant light output function		N/A
3.12 (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
3.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
3.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
3.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
3.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)	N/A	—
	- case of abnormal conditions	N/A	—
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un	N/A	—

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Clause	Requirement + Test	Result - Remark	Verdict
	- measured mounting surface temperature (°C) at 1,1 Un		N/A
	- calculated mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
3.12 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions	N/A	—
	- 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
3.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
3.12 (12.7.1)	Luminaire without temperature sensing control		N/A
3.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W	N/A	—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions	N/A	—
	- Ballast failure at supply voltage (V)	N/A	—
	- 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	N/A	—
	- measured winding temperature (°C): at 1,1 Un	N/A	—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	N/A	—
	- calculated temperature of fixing point/exposed part (°C)	N/A	—
	Ball-pressure test	See Table 3.15 (13.2.1)	N/A
3.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions	N/A	—
	- measured winding temperature (°C): at 1,1 Un	N/A	—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	N/A	—

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Clause	Requirement + Test	Result - Remark	Verdict
	- calculated temperature of fixing point/exposed part (°C)	N/A	—
	Ball-pressure test	See Table 3.15 (13.2.1)	N/A
3.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions	N/A	—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
3.12 (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	N/A	—
	- highest measured temperature of fixing point/ exposed part (°C):	N/A	—
	Ball-pressure test:	See Table 3.15 (13.2.1)	N/A
3.12.1 (-)	Temperature reduction if for outdoor use only		P
3.12.2 (-)	(See above)		—
3.12.3 (-)	Glass covers used within the thermal limits declared by the glass manufacturer		N/A

3.13 (9)	RESISTANCE TO DUST AND MOISTURE		P
3.13.1 (-)	If IP > IP 20 the order of tests as specified in clause 3.12		P
3.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP	IP66	—
	- mounting position during test	down-lighting	—
	- fixing screws tightened; torque (Nm)	N/A	—
	- tests according to clauses	9.2.2, 9.2.7	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire	IP6X	P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	IPX6	P
	c.1) For luminaires without drain holes – no water entry	IPX6	P

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Clause	Requirement + Test	Result - Remark	Verdict
	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)		N/A
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	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		P
3.13 (9.3)	Humidity test 48 h		P

3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
3.14 (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)	See below	—
	SELV/PELV:		N/A
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface..... :		N/A
	- between current-carrying parts and metal parts of the luminaire		N/A
	- 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:		N/A
	- between live parts of different polarity		P
	- between live parts and mounting surface	> 10 MΩ	P
	- between live parts and metal parts	> 10 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..... :	> 10 MΩ	P
	- Insulation bushings as described in Section 5	> 10 MΩ	P

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Clause	Requirement + Test	Result - Remark	Verdict
3.14 (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
	Test voltage (V)	See below	P
	SELV/PELV:		N/A
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire		N/A
	- 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		N/A
	- between live parts and mounting surface	1480 V	P
	- between live parts and metal parts	1480 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	1480 V	P
	- Insulation bushings as described in Section 5	1480 V	P
3.14 (10.3)	Touch current (mA).....		N/A
	Protective conductor current (mA).....	0,11 mA	P

3.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
3.15 (13.2.1)	Ball-pressure test	See Test Table 3.15 (13.2.1)	P
3.15 (13.3.1)	Needle-flame test (10 s)	See Test Table 3.15 (13.3.1)	P
3.15 (13.3.2)	Glow-wire test (650°C)	See Test Table 3.15 (13.3.2)	N/A
3.15 (13.4)	Proof tracking test (IEC 60112)	See Test Table 3.15 (13.4)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

3.7 (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:	R	6,4 mm	1,5 mm	11.1.B	8,8 mm	220V - 2,3 mm 240V – 2,4 mm	11.1.A	
Working voltage (V)					220-240		—	
PTI					< 600 ☒ ≥ 600 ☐		—	
Pulse voltage or U_P if applicable (kV)							—	
Supplementary information:								
Distance 2:								
Working voltage (V)							—	
PTI					< 600 ☐ ≥ 600 ☐		—	
Pulse voltage or U_P if applicable (kV)							—	
Supplementary information								
Distance 3:								
Working voltage (V)							—	
PTI					< 600 ☐ ≥ 600 ☐		—	
Pulse voltage or U_P if applicable (kV)							—	
Supplementary information:								

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

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

3.7 (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.

IEC 60598-2-3				
Clause	Requirement + Test		Result - Remark	Verdict
3.15 (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)
Connector		BJB	125	1,0
Supplementary information:				

3.15 (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
Connector	BJB	10	No	-	P
Supplementary information:					

3.15 (13.3.2)	TABLE: Resistance to heat and fire - Glow wire tests					N/A
Object/ Part No./ Material	Manufacturer/ trademark	Glow wire test (°C)				
		650		750		850
		te	ti	te	ti	
Ignition of the specified layer placed underneath the test specimen (Yes/No)..... :						
Supplementary information:						

3.15 (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:					

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
LED Modules <i>Moduły LED</i>	B	LUG	ML21XXXXYY.WQQQ. UUV (LUXEON 5050 modules) (choice sheet below)	Tc -40°C to +85°C	EN 62031	Tested and accepted by IMiF PREDOM Division Test Report No. Z7-3/143/B/21/M1	

Choice sheet of the Urbino LED S series modules LUXEON 5050:

Zbiór możliwości modułów opraw Urbino LED S – seria

Example of symbol (Przykład):

ML21XXXYY.WQQQ.UUV

1 2 3 4 5 6 7 8

Designations used on the marking of LED boards (*Oznaczenia stosowane na modułach LED*):

- | | |
|--------|--|
| 1. ML | - PCB designation (<i>Oznaczenie PCB</i>)
(ML – LED module) (<i>ML – moduł LED</i>) |
| 2. 21 | - Year of the project (<i>Rok produkcji</i>)
21, 22, 23, 24 |
| 3. XXX | - Number of the project: (<i>Numer projektu</i>):
Luxeon - 660, 661, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693 |
| 4. YY | - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration):
(<i>Wariant projektu (projekt PCB, frezowanie, wymiary, kolor maski, grubość laminatu, konfiguracja LED)</i>):
00...99 |
| 5. W | Light color (<i>Kolor światła</i>) :
W: White (<i>Biały</i>) |
| 6. QQQ | - CRI and CCT:
722: CRI 70 and 2200K
727: CRI 70 and 2700K
730: CRI 70 and 3000K
735: CRI 70 and 3500K
740: CRI 70 and 4000K
750: CRI 70 and 5000K
757: CRI 70 and 5700K
765: CRI 70 and 6500K
822: CRI 80 and 2200K
827: CRI 80 and 2700K
830: CRI 80 and 3000K
835: CRI 80 and 3500K
840: CRI 80 and 4000K
850: CRI 80 and 5000K
857: CRI 80 and 5700K
865: CRI 80 and 6500K |
| 7. UU | - Assembly variant (selected components not mounted) (<i>Wariant montażowy (wybrane komponenty niezamontowane)</i>):
01...99 |
| 8. V | - NTC Thermistor type (<i>Typ termistora NTC</i>):
A - none
B – 10K
C – 47K |

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
LED Modules <i>Moduły LED</i>	B	LUG	ML21XXXYY.WQQQ.UUV (CREE XPG3 modules) (choice sheet below)	Tc -40°C to +85°C	EN 62031	Tested and accepted by IMiF PREDOM Division Test Report No. B10-3/089/B/22/M1	

Choice sheet of the Urbino LED S series modules CREE XPG3:
Zbiór możliwości modułów opraw Urbino LED S – seria
Example of symbol (Przykład):

ML21XXXYY.WQQQ.UUV

1 2 3 4 5 6 7 8

Designations used on the marking of LED boards (*Oznaczenia stosowane na modułach LED*):

- | | |
|--------|--|
| 1. ML | - PCB designation (<i>Oznaczenie PCB</i>)
(ML – LED module) (<i>ML – moduł LED</i>) |
| 2. 21 | - Year of the project (<i>Rok produkcji</i>)
21, 22, 23, 24 |
| 3. XXX | - Number of the project: (<i>Numer projektu</i>):
Cree - 600, 601, 610, 611 |
| 4. YY | - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration):
(<i>Wariant projektu (projekt PCB, frezowanie, wymiary, kolor maski, grubość laminatu, konfiguracja LED)</i>):
00...99 |
| 5. W | - Light color (<i>Kolor światła</i>) :
W: White (<i>Biały</i>) |
| 6. QQQ | - CRI and CCT:
722: CRI 70 and 2200K
727: CRI 70 and 2700K
730: CRI 70 and 3000K
735: CRI 70 and 3500K
740: CRI 70 and 4000K
750: CRI 70 and 5000K
757: CRI 70 and 5700K
765: CRI 70 and 6500K
822: CRI 80 and 2200K
827: CRI 80 and 2700K
830: CRI 80 and 3000K
835: CRI 80 and 3500K
840: CRI 80 and 4000K
850: CRI 80 and 5000K
857: CRI 80 and 5700K
865: CRI 80 and 6500K |
| 7. UU | - Assembly variant (selected components not mounted): (<i>Wariant montażowy (wybrane komponenty niezamontowane)</i>):
01...99 |
| 8. V | - NTC Thermistor type (<i>Typ termistora NTC</i>):
A - none
B – 10K
C – 47K |

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	OSRAM	OT100W/UNV/800C/2D IMLT2/P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 110/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 20/170-240/1A0 1DIM LT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT DX 40/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=800C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT DX 75/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT DX 110/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 20/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=750C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 40/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=800C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 110/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=750C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 20/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 40/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=800C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 40/120...277/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C, tc max=800C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 60/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 90/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...5500C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 50/120...277/800 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 50/120...277/1A2 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=800C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 100/120...277/800 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 110/120...277/1A4 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 60/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 100/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 100/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 100/ 220-240/1A4 2DIM P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 20/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =75 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 40/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 75/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =100 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 110/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75 /220...240/1A0 1DIM G2 CE	220...240V, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 50/120...277/700 P5	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 100/120...277/700 P5	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 100/220...240/4A2 P5	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 20/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 40/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 40/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/170...240/1A5 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 110/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 110/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT DX 40/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT DX 75/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT DX 110/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 20/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+70°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 40/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 75/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	IT DALI 110/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 20/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 40/170-240/0A7 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 40/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/170-240/0A7 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 75/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 110/170-240/0A7 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	OSRAM	OT 110/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-025S045BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-025S070BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-025S105BT2	171..275V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-040S045BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-040S070BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-040S105BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-080S070BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-080S105BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-080S150BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-120S070BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-120S105BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EBS-120S150BT2	176..305V, 50-60Hz, ta= -40...+750C, tc max=900C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EUM-075S	90..305V, 50-60Hz, ta= -40...+80°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Inventronics	EUM – 100S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 40W 0.7A Prog+ GL-J sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 75W 0.35- 0.70A GL Prog+ sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 75W 0.1-1.05A Prog GL F sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 100W 0.7A Prog+ GL-Z sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

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Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 12W 0.1-0.5A S 230V C100	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 22W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 40W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 40W 0.3-1.0A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 75W 0.2-0.7A S 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 75W 0.3-1.0A S 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 110W 0.2-0.7A S 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi BP 110W 0.3-1.0A S 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 22W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 22W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 40W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 40W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.5-1.5A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 110W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 110W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 22W 0.2-0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

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Control gear <i>Zasilacz</i>	A	Philips	Xi LP 22W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 40W 0.2 -0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 40W 0.2-0.7A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 40W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 40W 0.3-1.0A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 40W 0.2-0.7A SN 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.2-0.7A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.2-0.7A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.3-1.0A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.3-1.0A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.2-0.7A SN 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 75W 0.5-1.5A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 70W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	

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Control gear <i>Zasilacz</i>	A	Philips	Xi FP 75W 0.5-1.5A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 110W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 40W 0.2-7.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 75W 2 0.3-1.0A SNEMPF C170 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 75W 0.3-1.0A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

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Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	Philips	Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 100W 2.1-4.2A AOC 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xi LP 100W 0.3-1.05A S1 230V I175	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium Dim 35W 0.7A 1-10V TWE I175	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium Dim 100W 0.7A 1-10V TWE I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 75W 0.7A TWE I175	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 75W 1.05A 1- 10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 75W 0.70A 1- 10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium Dim 75W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Philips	Xitanium 75W 1-10V 230V C165	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCA 120W 300-1050mA	220..240V, 50-60Hz, ta= -30...+55°C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCA 75W 250-750mA one	220..240V, 50-60Hz, ta= -40...+700C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCA 120W 350- 1050mA one	220..240V, 50-60Hz, ta= -40...+700C, tc max=850C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 14/100-500/38 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 24/200-1050/39 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 40/200-1050/64 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 60/200-1050/100 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 90/200-1050/165 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

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Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 14/100-500/38 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 24/200-1050/39 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 40/200-1050/64 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 60/200-1050/100 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=95°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 60/700-1500/43 o4a NFC C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=95°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 90/200-1050/165 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 100/1050/95 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 100/1400/71 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 100/500/200 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 100/700/143 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 75/1050/72 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 75/1400/53 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 75/500/150 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 75/700/108 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 14W 100–550mA 38V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=95°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 24W 200–1050mA 39V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 40W 200–1050mA 64V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+65°C, tc max=95°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 40W 200–1050mA 58V 2xCH pD+ NF C PRE3	220..240V, 50-60Hz, ta= -40...+65°C, tc max=95°C	EN 61347-1 EN 61347-2-13	ENEC	

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Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 60W 200–1050mA 100V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+650C, tc max=950C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 80W 200–1050mA 91V 2xCH pD+ NF C PRE3	220..240V, 50-60Hz, ta= -40...+700C, tc max=950C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 90W 200–1050mA 165V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+700C, tc max=950C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Tridonic	LCO 120W 200– 1050mA 182V 2xCH pD+ NF C PRE3	220..240V, 50-60Hz, ta= -40...+700C, tc max=950C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	LACROIX	DL-PAK 70	220...240 50/60Hz, Ta =-25...+60 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	LACROIX	DL-Pak 100L	220...240 50/60Hz, Ta =-25...+55 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	DELTA	EUCI-040105GLA	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	DELTA	EUCI-075105GLA	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Delta	EUCI-022105GLB	220...240V, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Delta	EUCI-040105GLB	198...264V, 50/60Hz, Ta =-40...+55 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Delta	EUCI-075105GLB	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max = 85 °C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Delta	EUCI 022105GIA	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Delta	EUCI 040105GIA	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-50VP-72BH	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-75VP-108BH	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-100VP-143BH	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-22PA- 32B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-40PA-54B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	

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Control gear <i>Zasilacz</i>	A	SOSEN	SS-75PA-108B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-110PA-160B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-22PA- 32F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-22PA- 49F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-22PA- 72F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-40PA-57F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-40PA-80F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-40PA-133F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-75PA-114F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-75PA-178F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-75PA-245F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-110PA-105F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-110PA-160F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	SOSEN	SS-110PA-245F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	ELDO LED	OT50W/UNV/800C/2DI MLT2/P6	120..277V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	U6-040D057	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	U6-080D115	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	U6-120D172	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	

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Control gear <i>Zasilacz</i>	A	Moso	U7-026D038	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	U7-040D057	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	U7-060D086	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	U7-080D115	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	U7-120D172	220..240V, 50-60Hz, ta= -40...+50°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Moso	LUP 120	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	uPowerTek	APD-040	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	uPowerTek	APD-075	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	uPowerTek	APD-110	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	uPowerTek	BLD-060	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	uPowerTek	BLD-075	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	uPowerTek	BLD-096	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	uPowerTek	BLD-120	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 75W/200-1050 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 20W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 40W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 75W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 110W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 20W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 40W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 75W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	MILANOinLED 110W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	VEGA 75/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	VEGA 105/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 22W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 40W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 75W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 110W 200- 700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 22W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 40W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 75W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 110W 200- 700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 22W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 40W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 75W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	TCI	SIRIO SQ 110W 200- 700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Eaglerise	CKH-26-500 IP67 R	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information						P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Control gear <i>Zasilacz</i>	A	Ledants	URF A100-A	220..240V, 50-60Hz, ta= -40...+65°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.639	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.640	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.641	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.642	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.659	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.660	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.682	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.683	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.684	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Vossloh schwabe	PRIMELINE ECXd 1050.685	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Lifud	LF-ACD040A/B	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Lifud	LF-ACD075A/B/C	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Lifud	LF-ACD120A/B	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Control gear <i>Zasilacz</i>	A	Lifud	LF-ACD165A/B	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC	
Wires LED <i>Przewody</i>	B	Mrowiec	H05V-U	500 V; 0,5 mm ²	EN 50525	BBJ	
Internal wires <i>Przewody wewnętrzne</i>	B	Mrowiec	H05V-K	500 V; 1 mm ²	EN 50525	BBJ	
Supply cord <i>Przewód zasilający</i>	B	TF Kable	H07RN-F	450/750 V;	EN 50525	BBJ	
Internal wires <i>Przewody wewnętrzne</i>	A	E.M.C. Colosio	RD10-B	300/500 V; 0,5 mm ²	EN 50525	IMQ, <HAR>	

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Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Silicon Fiberglass Insulating Sleeving <i>Oplot izolacyjny z włókna szklanego</i>	B	Isolcavi	GVES 1500	min. 1500 Volt, Temp -60...+250°C	IEC 60684-3-400	UL	
Connector <i>Złącze</i>	B	Jiang Men Krealux Electrical	P02-M	17,5A; 450 V	EN 60988-1 EN 60998-2-2	VDE	
Connector <i>Złącze</i>	A	Openwise	925	16A; 450 V	EN 60988-1 EN 60998-2-2	ENEC	
Connector <i>Złącze</i>	A	Openwise	928	32A; 450 V	EN 60988-1 EN 60998-2-2	ENEC	
Connector <i>Złącze</i>	A	Greenway Electronics Co Ltd	M684	16A; 450 V	EN 61984, EN 60988-1, EN 60998-2-1, EN 62444	ENEC	
Terminal block <i>Listwa zaciskowa</i>	B	Stucchi	651/652	16A; 400 V	EN-61984	IMQ	
Terminal block <i>Listwa zaciskowa</i>	B	Stucchi	661/662	6A; 400 V	EN-61984	IMQ	
Connector <i>Złącze</i>	B	BJB	47.121.-303.93, 47.121.-305.80, 47.121.-702.14, 47.121.-705.84, 47.121.U301.80, 47.121.U303.80, 47.121.U304.80, 47.921.-801.68, 47.921.-802.68, 47.921.U801.81	2A, 24V DC, ta= -40°C to 100°C	EN 61984, UL773	CE, VDE	
Connector <i>Złącze</i>	B	BJB	48.281	16A; 400 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	BJB	46.412	16A; 450 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	BJB	46.413	16A; 450 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	BJB	46.414	16A; 450 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	BJB	46.415	16A; 450 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	BJB	46.455	16A; 450 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	WAGO	224-101	24A; 400 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	WAGO	224-112	24A; 400 V	EN 60998-2-2	VDE	
Connector <i>Złącze</i>	B	TE Connectivity	2834049 2834048 2834055 2834054	9A; 600 V	EN 61984	TUV	

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ANNEX 1	TABLE: Critical components information					P
Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>
Terminal block <i>Listwa zaciskowa</i>	B	Wieland	GST 18I4S	20A; 400 V	EN 61535	VDE
Terminal block <i>Listwa zaciskowa</i>	B	Wieland	GST 15I2	16A; 250 V	EN 61535	VDE
Terminal block <i>Listwa zaciskowa</i>	B	Wieland	96.051.4153.6	20A; 250 V	EN 61535	VDE, UL
Terminal block <i>Listwa zaciskowa</i>	B	Wieland	96.031.4053.1	20A; 250 V	EN 61535	VDE, UL
Connector <i>Złącze</i>	B	EMC Colosio	M26B	17A; 300 V	EN 60598-1	IMQ
Knife switch (connector) <i>Złącze nożowe</i>	B	Longran	M29 M29 mini	16A; 450 V 16A; 250 V	EN 61984 EN 60998-2-1 EN 60998-1	TUV
Connector <i>Złącze</i>	B	LONGJOIN	JL-700	1,5A, 30V	EN 61984	DEKRA
Connector <i>Złącze</i>	B	Tyco Electronics Corp.	2213795, 2213831, 2213837, 2213858, 2328823, 2329013	30V AC/DC 50/60Hz, 1,5A	EN 61984	CB certificate, UL EU, IEC
Connector <i>Złącze</i>	B	Tyco Electronics Corp.	1-2213871-1, 1-2213871-2, 2213871-1, 2213871-2, X-2213362-X, X-2213627-X	t= -40...+80°C, tc max=80°C 150/240/300VAC, 50/60Hz, 15/7.5/6 A, Signal Contacts: 30VDC, 1.5A	EN 61984	CB certificate, UL EU, IEC
Connector <i>Złącze</i>	B	LUG	iBlock	230V, 50Hz, Ta =-40°C do 70°C	EN61347-2-11	Tested and accepted by ITE PREDOM Division TR No. Z7-2/016/B/20
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Vossloh schwabe	SP / 230 / 10K	220-240V, 50/60Hz, Ta = -30°C do 80°C	EN 60598-2-3 EN 61643-11	VDE
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Vossloh schwabe	SP 3 / 230 / 10K	100-277V, 50/60Hz, Ta = -30°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Vossloh schwabe	SPC 3 / 230 / 10K / i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Vossloh schwabe	SPC 3 / 230 / 10K / i-IP66	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Vossloh schwabe	SPC 230 / 10K / i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 61643-11	DEKRA
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Tridonic	SPD 10kV CE SNC	100-277V, 50/60Hz, Ta = -40°C do 80°C	EN 61643-11	KEMA KEUR
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Inventronics	PU-20KX10KTX	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11, EN 61643-21	CE, VDE
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Inventronics	PU-20Kx10KBx	320Vac, 15A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11, EN 61643-21	CE, VDE

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Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Inventronics	PU-10Kx05KBx	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11, EN 61643-21	CE, VDE	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Linoya Electronic Technology	LYSPD10D	300Vac, 50Hz, IP67	EN 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ESB	ESB-6K	220-240V, 50/60Hz, Ta = -30°C do 80°C	EN 61643-11	VDE	
Connector <i>Złącze</i>	B	LONGJOIN Nema	JL-240	t= -40...+70°C, 480VAC, 50/60Hz, Signal Contacts: 30VDC, 0,25A	EN 61984	DEKRA	
Connector <i>Złącze</i>	B	LONGJOIN Nema	JL-208	t= -40...+70°C, 480VAC, 50/60Hz, Signal Contacts: 30VDC, 0,25A	EN 61984	CB	
Connector <i>Złącze</i>	B	Ojun Zhaga	OJ-M716, OJ-M718	t= -40...+70°C, 500V, 50/60Hz, 30VDC, 1,5A	EN 61984	DEKRA, CB, Kema Keur, UKCA	
Connector <i>Złącze</i>	B	Optimum	OPT801, OPT805, OPT806	t= -40...+70°C, IP66, 50/60Hz, 60VDC, 1,5A	EN 61984	DEKRA, CB, Kema Keur, UKCA	
Fixed resistor <i>Rezystor</i>	B	Uniroyal Electronics	MGR series	100k Ohm to 100 MOhm (+-5%), 2W, 2,5kV	EN IEC 62368-1	VDE	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	RuiLongYuan	TP10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Greenway	GSPD 1	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	ETL / UL / TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Greenway	GSPD 3	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	ETL / UL / TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	LINOYA	LYSPD10A	300Vac, 50Hz, IP67	EN 61643-11	UL	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ZP Lightning	ZP-LSP10-PL	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	UL	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ZP Lightning	ZP-LED-P10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ZP Lightning	ZP-LED-S10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ZP Lightning	ZP-LSP10-PR	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ZP Lightning	ZP-LSP10-PY/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ZP Lightning	ZP-LSP10-SR	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	ZP Lightning	ZP-LSP10-SY/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	

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Object / part No. <i>Nr obiektu / komponentu</i>	Code	Manufacturer/ trademark <i>Producent / znak towarowy</i>	Type / model <i>Typ / model</i>	Technical data <i>Dane techniczne</i>	Standard <i>Norma</i>	Mark(s) of conformity ¹⁾ <i>Znak zgodności</i>	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Zhongyuan Technology	ZYS-P10WD, ZYS-P20WD	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
Luminaire protection <i>Zabezpieczenie oprawy</i>	B	Zhongyuan Technology	ZYS-P10SD, ZYS-P20SD, ZYS-P10SD/II, ZYS-P20SD/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV	
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						P
	Type reference			130782.5LR7B40S1130.117		—	
	Lamp used.....			ML2167232 W730-01B		—	
	Lamp control gear used			OPTOTRONIC OT 75/170-240/1A0 4DIMLT2 G2 CE		—	
	Mounting position of luminaire			on the mast arm		—	
	Supply wattage (W)			77,4 W		—	
	Supply current (A)			0,347 A		—	
	Temperatures in test 1 - 4 below are corrected for ta (°C)			50 °C		—	
	- abnormal operating mode			N/A		—	
3.12 (12.4)	- test 1: rated voltage			240 V		—	
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current			254,4 V		—	
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage			N/A		—	
	Through wiring or looping-in wiring loaded by a current of A during the test			N/A		—	
3.12 (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			N/A		—	
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
LED Module	50	81	N/A	N/A	85	N/A	N/A
Control gear	50	78	N/A	N/A	85	N/A	N/A
Connector	50	N/A	60	N/A	85	N/A	N/A
Internal wires	50	N/A	63	N/A	90	N/A	N/A
Supplementary information:							

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 3	Screw terminals (part of the luminaire)		N/A
(14)	SCREW TERMINALS		N/A
(14.2)	Type of terminal..... :	N/A	—
	Rated current (A)..... :	N/A	—
(14.3.2.1)	One or more conductors		N/A
(14.3.2.2)	Special preparation		N/A
(14.3.2.3)	Terminal size		N/A
	Cross-sectional area (mm ²)..... :	N/A	—
(14.3.3)	Conductor space (mm)..... :		N/A
(14.4)	Mechanical tests		N/A
(14.4.1)	Minimum distance		N/A
(14.4.2)	Cannot slip out		N/A
(14.4.3)	Special preparation		N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread) :	M	N/A
	External wiring		N/A
	No soft metal		N/A
(14.4.5)	Corrosion		N/A
(14.4.6)	Nominal diameter of thread (mm) :		N/A
	Torque (Nm) :		N/A
(14.4.7)	Between metal surfaces		N/A
	Lug terminal		N/A
	Mantle terminal		N/A
	Pull test; pull (N)..... :		N/A
(14.4.8)	Without undue damage		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 4	Screwless terminals (part of the luminaire)		N/A
(15)	SCREWLESS TERMINALS		N/A
(15.2)	Type of terminal..... :	N/A	—
	Rated current (A) :	N/A	—
(15.3.1)	Material		N/A
(15.3.2)	Clamping		N/A
(15.3.3)	Stop		N/A
(15.3.4)	Unprepared conductors		N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method		N/A
(15.3.7)	Clamping independently		N/A
(15.3.8)	Fixed in position		N/A
(15.3.10)	Conductor size		N/A
	Type of conductor		N/A
(15.5)	Terminals and connections for internal wiring		N/A
(15.5.1)	Mechanical tests		N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples) :		N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples) :		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)		N/A
(15.5.2)	Electrical tests		N/A
	Voltage drop (mV) after 1 h (4 samples) :		N/A
	Voltage drop of two inseparable joints		N/A
	Number of cycles:		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)..... :		N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)..... :		N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples) :		N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples) :		N/A
(15.6)	Terminals and connections for external wiring		N/A
(15.6.1)	Conductors		N/A
	Terminal size and rating		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
15.6.2	Mechanical tests		N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N)		N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N)		N/A
(15.6.3)	Electrical tests		N/A
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1		N/A

(15.6.3.1) (15.6.3.2)	TABLE: Contact resistance test / Heating tests										N/A
	Voltage drop (mV) after 1 h										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop of two inseparable joints										
	Voltage drop after 10th alt. 25th cycle										
	Max. allowed voltage drop (mV) :										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV) :										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Continued ageing: voltage drop after 10th alt. 25th cycle										
	Max. allowed voltage drop (mV) :										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Continued ageing: voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV) :										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
Supplementary information:											

List of test equipment used:

A completed list of used test equipment shall be provided in the Test Reports when a Customer's Testing Facility according to CTF stage 1 or CTF stage 2 procedure has been used.

Note: This page may be removed when CTF stage 1 or CTF stage 2 are not used. See also clause 4.8 in OD 2020 for more details.

Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Range used	Last Calibration date	Calibration due date

Photos





