



Test Report issued under the responsibility of:



TEST REPORT
IEC 60598-2-1
Luminaires
Part 2: Particular requirements
Section 1: Fixed general purpose luminaires

Report Number. : 3510320.50
Date of issue : 2025-04-01
Total number of pages : 91 (Including attachments)

Name of Testing Laboratory preparing the Report : DEKRA Testing and Certification S.r.l

Applicant's name : Fumagalli S.r.l.
Address : Via Ca' Bassa, 29
21100 Varese (VA) - Italy

Test specification:

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

TRF template used : IECEE OD-2020-F1:2023, Ed.1.6
Test Report Form No. : IEC60598_2_1J
Test Report Form(s) Originator : Intertek Semko AB
Master TRF : Dated 2024-10-18

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General disclaimer:

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Test item description..... :	Fixed general purpose luminaires	
Trademark(s) :	Fumagalli	
Manufacturer :	Fumagalli S.r.l. Via Ca' Bassa, 29 – 21100 Varese (VA) - Italy	
Model/Type reference :	ANNA, SABA, GIAMPY, MARY, ROBY, RUT, SALEM, SANDRO, GOLIA, CEFA, DARIO, NOEMI, SILOE, TOBIA, SIMON, SERGIO, ELIA, PIETRO.	
Ratings..... :	220-240 V~, 50/60 Hz, Class II, IP55 (See pages 7 and 8 for other ratings)	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	DEKRA Testing and Certification S.r.l
Testing location/ address :		Via Martiri della Liberazione, 12 23885 Osnago (LC) - Italy
Tested by (name, function, signature)..... :		Davide Porta (ENG)
Approved by (name, function, signature).... :		Filippo Tiezzi (REW)
☐	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):				
Cenelec Common Modifications (EN)		Attachment 1: 2 pages		
National Difference for Saudi Arabia		Attachment 2: 1 page		
Photographs		Attachment 3: 31 pages		
Instructions		Attachment 4: 9 pages		
Summary of testing:				
Tests performed (name of test and test clause):				Testing location:
0.5	Components	Applicable	Pass	DEKRA
1.6	Marking	Applicable	Pass	DEKRA
1.7	Construction	Applicable	Pass	DEKRA
1.8	Creepage distances and clearances	Applicable	Pass	DEKRA
1.9	Provision for earthing	Not Applicable	N/A	—
1.10	Screw terminals and screwless terminals and electrical connection	Not Applicable	N/A	—
1.11	External and internal wiring	Applicable	Pass	DEKRA
1.12	Protection against electrical shock	Applicable	Pass	DEKRA
1.13	Endurance test and thermal test	Applicable	Pass	DEKRA
1.14	Resistance to dust, solid objects, and moisture	Applicable	Pass	DEKRA
1.15	Insulation resistance and electrical strength	Applicable	Pass	DEKRA
1.16	Resistance to heat, fire, and tracking	Applicable	Pass	DEKRA
TESTING LOCATION DEKRA Testing and Certification S.r.l. Via Martiri della Liberazione, 12 - 23875 Osnago (LC) - Italy				
TEST RESULTS WERE FAVOURABLE				
Summary of compliance with National Differences - IECEE Member countries that are also CENELEC members Compliance with Group Differences evaluated ☒ yes ☐ No ☐ N/A - IECEE Member countries with published National Differences which were evaluated: Saudi Arabia (See attachment 2) - IECEE Member countries that did not publish any National Differences: N/A To support compliance with published National Differences, attach a compilation of relevant ND and/or GD TRFs to the CB Test Report				

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

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

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

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

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

Copy of marking plate:

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

"L" and **"N"** are marked on the connecting device.

Representative marking label**FUMAGALLI**

Via Cà Bassa 29 - 21100 Varese (VA) - Italy

Modello **ELIA U43.000.H27**

MAX **60W E27**

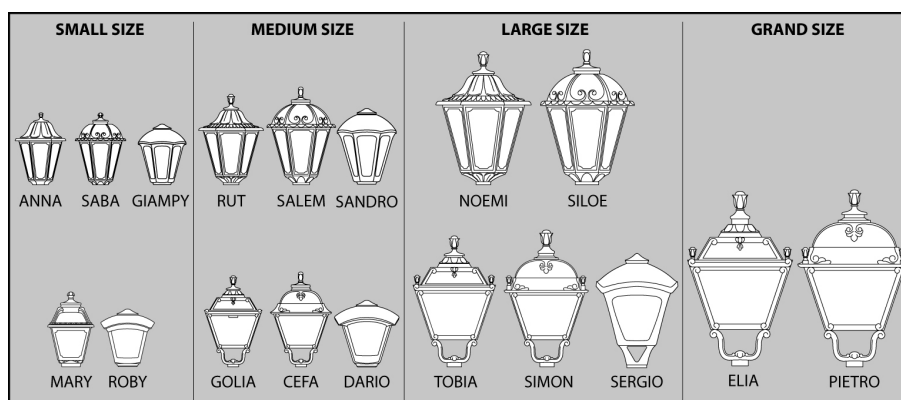
220-240 V ~ 50/60 Hz

Made in Italy



Test item particulars :	
Classification of installation and use..... :	Luminaires suitable for normally flammable surface, for normal use, Class II, IP55.
Supply Connection :	Connecting device or supply cord (optional)
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 :	2023-03-06
Date (s) of performance of tests :	From 2023-03-10 to 2023-03-23
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.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60598-2:	
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 factories..... :	Fumagalli S.r.l. Via Ca' Bassa, 29 21100 Varese (VA) – Italy
General product information and other remarks:	
The product fulfils the requirements of EN IEC 60598-2-1:2021 used in conjunction with EN IEC 60598-1:2021 + EN IEC 60598-1:2021/A11:2022 Fixed general purpose luminaires also complies with the following standards: BS EN IEC 60598-1:2021+A11:2022 BS EN IEC 60598-2-1:2021 SASO IEC 60598-1:2021 SASO IEC 60598-2-1:2021 Fixed luminaire for self-ballasted compact fluorescent lamps or LED lamps. Luminaire is provided with E27 or GX53 lampholder Class of insulation II, degree protection IP55. The body is made of shockproof resin. The protective screen is made of polymethyl methacrylate (PMMA) If not differently stated, the test is performed at the frequency of 50 Hz and are considered representative also for frequency at 60 Hz.	

Report history:	
1) Original report Ref. No. 3506372.50 dated 2019-02-18	
2) Report Ref. No.: 3507055.50 dated 2020-03-03	This test report updates and replaces DEKRA 3506372.50 dated 2019-02-18. This report covers the addition of new series ELIA and PIETRO The following test have been done. Endurance a thermal test clause 12.3, 12.4.1 and IP testing clause 9.2.1; 9.2.6 The complete tests for the added have been carried out on models Q43.000.W1L which were considered as representative of the whole series
3) Report Ref. No.: 3508586.50 dated 2022-05-04	This test report updates and replaces DEKRA 3507055.50 dated 2020-03-03 This report covers the compliance to the new standard IEC 60598-2-1:2020 and IEC 60598-1:2020 and covers the addition of new series MARY The following test have been done. Construction, external and internal wiring, protection electric shock Compliance are checked by inspection, Endurance a thermal test clause 12.3, and IP testing clause 9.2.6 The tests for the added have been carried out on models Q18.000.W1L and Q43.000.W1L
4) Report Ref. No.: 3509175.50 dated 2023-03-23	This test report updates and replaces DEKRA 3508586.50 dated 2022-05-04 This report covers the new series DARIO and ROBY The difference between the two new models refers only to the aesthetic part, therefore it was deemed unnecessary to repeat the tests
5) Report Ref. No.: 3509742.50 dated 2024-03-01	This test report updates and replaces DEKRA 3509175.50 dated 2023-03-23 This report concerns the new model SERGIO which derives constructively from the SIMON. The difference between the two new models refers only to the aesthetic part, therefore it was deemed unnecessary to repeat the tests
6) Report Ref. No.: 3510130.50 dated 2024-12-09	This test report updates and replaces DEKRA 3509742.50 dated 2024-03-01 This report concerns the new model GIAMPY which derives constructively from the ANNA. The difference between the two new models refers only to the aesthetic part, therefore it was deemed unnecessary to repeat the tests Update new photographs from 9 to 12 and new instruction sheet
7) Report Ref. No.: 3510320.50 dated 2025-04-01	This test report updates and replaces DEKRA 3510130.50 dated 2024-12-09 This report concerns the new model SANDRO which derives constructively from the RUT. The difference between the two new models refers only to the aesthetic part, therefore it was deemed unnecessary to repeat the tests Update new photographs from 27 to 30 and new instruction sheet



Models	Type reference	Supply Voltage	Frequency	N° Lamps / lampholder	Max Wattage
SMALL SIZE					
ANNA	E22.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
SABA	K22.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
GIAMPY	H21.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
MARY	Q18.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
ROBY	T20.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
MEDIUM SIZE					
RUT	E26.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
SALEM	K26.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
SANDRO	H24xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
GOLIA	Q23.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
CEFA	U23.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
DARIO	T24.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
LARGE SIZE					
NOEMI	E35.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
SILOE	K35.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
TOBIA	Q33.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
SIMON	U33.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W
SERGIO	T33.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	23 W

NOEMI	E35.xxx.zzy	220 - 240 V	50/60 Hz	1 / E27	50 W
NOEMI	E35.xxx.H27	220 - 240 V	50/60 Hz	1 / E27	50 W
SILOE	K35.xxx.zzy	220 - 240 V	50/60 Hz	1 / E27	50 W
SILOE	K35.xxx.H27	220 - 240 V	50/60 Hz	1 / E27	50 W
TOBIA	Q33.xxx.zzy	220 - 240 V	50/60 Hz	1 / E27	50 W
TOBIA	Q33.xxx.H27	220 - 240 V	50/60 Hz	1 / E27	50 W
SIMON	U33.xxx.zzy	220 - 240 V	50/60 Hz	1 / E27	50 W
SIMON	U33.xxx.H27	220 - 240 V	50/60 Hz	1 / E27	50 W
SERGIO	T33.xxx.zzy	220 - 240 V	50/60 Hz	1 / E27	50 W
SERGIO	T33.xxx.H27	220 - 240 V	50/60 Hz	1 / E27	50 W

NOEMI	E35. xxx.D3y	220 - 240 V	50/60 Hz	3 / GX53	30 W
SILOE	K35. xxx.D3y	220 - 240 V	50/60 Hz	3 / GX53	30 W
SERGIO	T35.xxx.D4y	220 - 240 V	50/60 Hz	4 / GX53	40 W
SERGIO	T35.xxx.G53	220 - 240 V	50/60 Hz	4 / GX53	40 W

GRAND SIZE					
ELIA	Q43.xxx.zzy	220 - 240 V	50/60 Hz	1 / E27	60 W
ELIA	Q43.xxx.H27	220 - 240 V	50/60 Hz	1 / E27	60 W
ELIA	Q43.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	60 W
PIETRO	U43.xxx.zzy	220 - 240 V	50/60 Hz	1 / E27	60 W
PIETRO	U43.xxx.H27	220 - 240 V	50/60 Hz	1 / E27	60 W
PIETRO	U43.xxx.E27	220 - 240 V	50/60 Hz	1 / E27	60 W

LEGEND

xxx	Stands for any letter or number indicating different colours of the luminaire for marketing purpose only. No impact safety related.	
zz	Power of lamps	F1 = 6,5 W V1 = 8,5 W T1 = 11 W R1 = 15 W Q1 = 30 W H1 = 50 W W1 = 60 W
y	Colour temperature of LED	R = 3000 K L = 4000 K K = CCT settable 3000 / 4000 / 6500 K
G53		Luminaire with base lampholder GX53 provided without the LED lamp.
H27 or E27		Luminaire with Edison lampholder E27 provided without the LED lamp.

Additional information common to all the models:

Insulation class	Class II
Protection degree	IP55
Ambient temperature	25 °C
Installation	Pole
Mains connections	Connecting device, or supply cord (optional).
Class in respect to mounting surface	Luminaires suitable for direct mounting on normally flammable surfaces

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.4 (0)	GENERAL TEST REQUIREMENTS		Pass
1.4 (0.3)	More sections applicable	Yes ☐ No ☒ Section/s:	—
1.4 (0.5)	Components	(See Annex 1)	—
1.4 (0.7)	Information for luminaire design in light sources standards		—
1.4 (0.7.2)	Light source safety standard		—
	Luminaire design in the light source safety standard		Pass

1.5 (2)	CLASSIFICATION OF LUMINAIRES		Pass
1.5 (2.2)	Type of protection	Class II	Pass
1.5 (2.3)	Degree of protection.....	IP55	—
1.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes ☒ No ☐	—
1.5 (2.5)	Luminaire for normal use	Yes ☒ No ☐	—
	Luminaire for rough service	Yes ☐ No ☒	—

1.6 (3)	MARKING		Pass
1.6 (3.2)	Mandatory markings	Fumagalli, maked on the enclosure.	Pass
	Position of the marking	The label is on the body of the luminaire.	Pass
	Format of symbols/text	Symbols > 5 mm. Letters > 2 mm.	Pass
1.6 (3.3)	Additional information	On the instruction sheet	Pass
	Language of instructions	Checked Italian, will be translated according to the destination market.	Pass
1.6 (3.3.1)	Combination luminaires		N/A
1.6 (3.3.2)	Nominal frequency in Hz	On the label 50/60 Hz	Pass
1.6 (3.3.3)	Operating temperature		N/A
1.6 (3.3.5)	Wiring diagram	On the instructions sheet	Pass
1.6 (3.3.6)	Special conditions		N/A
1.6 (3.3.7)	Metal halide lamp luminaire – warning	Self-ballasted fluorescent lamps or self-ballasted LED lamps	N/A
1.6 (3.3.8)	Limitation for semi-luminaires		N/A
1.6 (3.3.9)	Power factor and supply current		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.6 (3.3.10)	Suitability for use indoors		Pass
1.6 (3.3.11)	Luminaires with remote control		N/A
1.6 (3.3.12)	Clip-mounted luminaire – warning		N/A
1.6 (3.3.13)	Specifications of protective shields		N/A
1.6 (3.3.14)	Symbol for nature of supply	On the label ~	Pass
1.6 (3.3.15)	Rated current of socket outlet		N/A
1.6 (3.3.16)	Rough service luminaire		N/A
1.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments		N/A
1.6 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
1.6 (3.3.19)	Protective conductor current in instruction if applicable		N/A
1.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
1.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		N/A
1.6 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
1.6 (3.3.23)	Luminaires without controlgear provided with necessary information for selection of appropriate component		N/A
1.6 (3.3.24)	If not supplied with terminal block, information on the packaging		Pass
1.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided		N/A
1.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided		N/A
1.6 (3.4)	Test with water	The marking plates are adhesive polyester labels. Data are written by thermal transfer	Pass
	Test with hexane		Pass
	Legible after test		Pass
	Label attached		Pass

1.7 (4)	CONSTRUCTION		Pass
1.7 (4.2)	Components replaceable without difficulty		Pass
1.7 (4.3)	Wireways smooth and free from sharp edges	No sharps edges or similar hazards	Pass
1.7 (4.4)	Lamp holders		Pass

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7 (4.4.1)	Integral lamp holder		N/A
1.7 (4.4.2)	Wiring connection		N/A
1.7 (4.4.3)	Lamp holder for end-to-end mounting		N/A
1.7 (4.4.4)	Positioning		Pass
	- pressure test (N)	30 N only for GX53	—
	After test the lamp holder comply with relevant standard sheets and show no damage		Pass
	After test on single-capped lamp holder the lamp holder has not moved from its position and show no permanent deformation	GX53	Pass
	- bending test (N)	2 N, E27	—
	After test the lamp holder has not moved from its position and show no permanent deformation		Pass
1.7 (4.4.5)	Peak pulse voltage	Ignitors not used	N/A
1.7 (4.4.6)	Centre contact		N/A
1.7 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
1.7 (4.4.8)	Lamp connectors		N/A
1.7 (4.4.9)	Caps and bases correctly used		N/A
1.7 (4.4.10)	Light source for lamp holder or connection according to IEC 60061 not connected another way		N/A
1.7 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II	Starter holder not used	N/A
	Starter holder class II construction		N/A
1.7 (4.6)	Terminal blocks		N/A
	Tails	Supply cord, where used	N/A
	Unsecured blocks		N/A
1.7 (4.7)	Terminals and supply connections		Pass
1.7 (4.7.1)	Contact to metal parts	Not adjusted	Pass
1.7 (4.7.2)	Test 8 mm live conductor	Plastic enclosure	Pass
	Test 8 mm earth conductor		N/A
1.7 (4.7.3)	Terminals for supply conductors	Screw of the lampholder, or screw terminal block	Pass
1.7 (4.7.3.1)	Welded method and material		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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
1.7 (4.7.4)	Terminals other than supply connection		N/A
1.7 (4.7.5)	Heat-resistant wiring/sleeves		N/A
1.7 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
1.7 (4.8)	Switches		N/A
	- adequate rating	Switches not used.	N/A
	- adequate fixing		N/A
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		N/A
1.7 (4.9)	Insulating lining and sleeves		Pass
1.7 (4.9.1)	Retainment		Pass
	Method of fixing.....:	By length, on the wiring of the lamp holder. Heat shrinkable tubing, covers the spring of the lamp holder.	Pass
1.7 (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
1.7 (4.10)	Double or reinforced insulation		Pass
1.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		Pass
	Safe installation fixed luminaires		Pass
	Capacitors and switches	Capacitors and switches not used.	N/A
1.7 (4.10.2)	Assembly gaps:		Pass
	- not coincidental		Pass
	- no straight access with test probe		Pass
1.7 (4.10.3)	Retainment of insulation:		Pass
	- fixed		Pass
	- unable to be replaced; luminaire inoperative		Pass
	- sleeves retained in position		Pass

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- lining in lamp holder		N/A
1.7 (4.10.4)	Protective impedance device		N/A
	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor		N/A
	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)		N/A
	Capacitors comply with IEC 60384-14	Not used	N/A
	Resistors comply with test (a) in 14.2 of IEC 60065		N/A
1.7 (4.11)	Electrical connections and current-carrying parts		Pass
1.7 (4.11.1)	Contact pressure		Pass
1.7 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
1.7 (4.11.3)	Screw locking:		Pass
	- spring washer	Fixing several parts	Pass
	- rivets		N/A
1.7 (4.11.4)	Material of current-carrying parts	Relevant components are separately certified.	Pass
1.7 (4.11.5)	No contact to wood or mounting surface		Pass
1.7 (4.11.6)	Electro-mechanical contact systems		N/A
1.7 (4.12)	Screws and connections (mechanical) and glands		Pass
1.7 (4.12.1)	Screws not made of soft metal	The screws are made of iron	Pass
	Screws of insulating material		N/A
	Torque test: torque (Nm); part..... :	0,5; Ø 2,9 x 12 mm self-tapping screws, fixing the anchorage	Pass
	Torque test: torque (Nm); part..... :	0,5; Ø 2,8x14 mm metric screw with nuts, fixing the E27 lamp holder to the bracket	Pass
	Torque test: torque (Nm); part..... :	See instruction sheet. 1,5 Nm; Ø 4,8 x 18 mm self-tapping screws.	Pass
	Torque test: torque (Nm); part..... :		N/A
1.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
1.7 (4.12.4)	Locked connections:		Pass
	- fixed arms; torque (Nm)		N/A
	- lamp holder; torque (Nm)	2 Nm, E27	Pass

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- push-button switches; torque 0,8 Nm		N/A
1.7 (4.12.5)	Screwed glands; force (Nm).....		N/A
1.7 (4.13)	Mechanical strength		Pass
1.7 (4.13.1)	Impact tests:		Pass
	- fragile parts; energy (Nm)		N/A
	- other parts; energy (Nm).....	0,35 enclosure of the luminaire. 0,35 translucent screen	Pass
	1) live parts		Pass
	2) linings		N/A
	3) protection		Pass
	4) covers		Pass
1.7 (4.13.2)	Metal parts have adequate mechanical strength		Pass
1.7 (4.13.3)	Straight test finger	30 N body enclosure of the luminaire	Pass
1.7 (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
1.7 (4.13.6)	Tumbling barrel		N/A
1.7 (4.14)	Suspensions, fixings and means of adjusting		N/A
1.7 (4.14.1)	Mechanical load:		N/A
	A) four times the weight		N/A
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm).....		N/A
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	Metal rod. diameter (mm)		N/A
	Fixed luminaire or independent controlgear without fixing devices		N/A
1.7 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		—
	Stress in conductors (N/mm ²)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
1.7 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles.....		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A
1.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
1.7 (4.14.5)	Guide pulleys		N/A
1.7 (4.14.6)	Strain on socket-outlets		N/A
1.7 (4.15)	Flammable materials		Pass
	- glow-wire test 650 °C	See Test Table 1.15 (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		Pass
	- thermal protection		N/A
	- electronic circuits exempted		N/A
1.7 (4.15.2)	Luminaires made of thermoplastic material with lamp controlgear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
1.7 (4.16)	Luminaires for mounting on normally flammable surfaces		Pass
	No lamp controlgear.....	(Compliance with Section 12)	Pass
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
1.7 (4.16.1)	Lamp controlgear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
1.7 (4.16.2)	Thermal protection:		N/A
	- in lamp controlgear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp controlgear		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.7 (4.16.3)	Design to satisfy the test of 12.6	(See clause 12.6)	N/A
1.7 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
1.7 (4.18)	Resistance to corrosion		Pass
1.7 (4.18.1)	- rust-resistance	Plastic enclosure	N/A
1.7 (4.18.2)	- season cracking in copper	Separately approved	Pass
1.7 (4.18.3)	- corrosion of aluminium		N/A
1.7 (4.19)	Igniters compatible with ballast	Not used	N/A
1.7 (4.20)	Rough service vibration		N/A
1.7 (4.21)	Protective shield		N/A
1.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
1.7 (4.21.2)	Particles from a shattering lamp does not impair safety		N/A
1.7 (4.21.3)	No direct path		N/A
1.7 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment..... :	See Test Table 1.15 (13.3.2)	N/A
1.7 (4.22)	Attachments to lamps does not cause overheating or damage		N/A
1.7 (4.23)	Semi-luminaires comply Class II		N/A
1.7 (4.24)	Photobiological hazards		N/A
1.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
1.7 (4.24.2)	Retinal blue light hazard		N/A
	Class of risk group assessed according to IEC/TR 62778	LED Lamps	—
	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

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Clause	Requirement + Test	Result - Remark	Verdict
1.7 (4.25)	Mechanical hazard		Pass
	No sharp point or edges		Pass
1.7 (4.26)	Short-circuit protection		N/A
1.7 (4.26.1)	Adequate means of uninsulated accessible SELV / PELV parts		N/A
1.7 (4.26.2)	Short-circuit test with test chain according 4.26.3:		N/A
	Supply source ES1 PSE		N/A
	Test chain does not melt through		N/A
	Test sample does not exceed values of Table 12.1 and 12.2		N/A
1.7 (4.27)	Terminal blocks with integrated screwless protective earthing contacts		N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		N/A
1.7 (4.28)	Fixing of thermal sensing control		N/A
	Not plug-in or easily replaceable type		N/A
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (°C) :		—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
1.7 (4.29)	Luminaires with non-replaceable light source		N/A
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		N/A
1.7 (4.30)	Luminaires with non-user replaceable light source		N/A
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		N/A
	At least one fixing means requiring use of tool		N/A
1.7 (4.31)	Insulation between circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A
	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
1.7 (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
1.7 (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
1.7 (4.31.3)	Other circuits		Pass
	Other circuits insulated from accessible parts according Table X.1		Pass
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part does 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
1.7 (4.32)	Overvoltage protective devices		N/A
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
1.7 (4.33)	Luminaire powered via information technology communication cabling		N/A
	Requirements for Class III luminaire		N/A
	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector		N/A
	Luminaire does not create any hazard from overvoltage	(See Annex 2)	N/A
1.7 (4.34)	Electromagnetic fields (EMF)		Pass
	No harmful electromagnetic fields	Comply without test (According to clause 4.2.2 and Annex H of IEC 62493: 2015)	Pass
1.7 (4.35)	Protection against moving fan blades		N/A
	Test with a standard test finger		N/A
	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire		N/A
	Blades rounded with radius ≥ 0.5 mm and:		N/A
	-hardness less than D60 Shore		N/A
	-peripheral speed less than 15 m/s		N/A
	-input power of fan ≤ 2 W at rated voltage		N/A
1.7 (4.36)	Track-mounted luminaires		N/A
	Test in accordance with Annex A of IEC 60570:2003/AMD2:2019		N/A
1.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		Pass
1.8 (11.2.1)	Impulse withstands category (Normal category II)	Category II ☒ Category III ☐	—

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Clause	Requirement + Test	Result - Remark	Verdict
	Category III according to Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
1.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 1.7 (11.2) I	Pass
	Creepage distances for frequency over 30 kHz:		N/A
	- Controlgear marked with $\hat{U}_{OUT}$ and f_{UOUT} according to IEC 61347-1, clause 7.1, item w	See Test Table 1.7 (11.2) II	N/A
	- Requirements according to IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A
1.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 1.7 (11.2) I	Pass
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P	See Test Table 1.7 (11.2) II	N/A
	- Requirements according to IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A

1.9 (7)	PROVISION FOR EARTHING		N/A
1.9 (7.2.1 + 7.2.3)	Accessible metal parts		N/A
	Metal parts in contact with supporting surface		N/A
	Resistance $< 0,5 \Omega$		Pass
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a grove		N/A
	Protective earth makes contact first		N/A
	Terminal blocks with integrated screwless protective earthing contacts tested according to Annex V		N/A
	Protective earthing of the luminaire not via built-in controlgear		N/A
1.9 (7.2.2 + 7.2.3)	Protective earth continuity in joints, etc.		N/A
1.9 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
1.9 (7.2.5)	Protective earth terminal integral part of connector socket		N/A
1.9 (7.2.6)	Protective earth terminal adjacent to mains terminals		N/A
1.9 (7.2.7)	Electrolytic corrosion of the protective earth terminal		N/A
1.9 (7.2.8)	Material of protective earth terminal		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Contact surface bare metal		N/A
1.9 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
1.9 (7.2.11)	Protective earthing core coloured green-yellow		N/A
	Length of protective earthing conductor		N/A
1.9 (7.2.12)	PELV circuit connected to protective earth for functional purpose		N/A

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

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

1.11 (5)	EXTERNAL AND INTERNAL WIRING		Pass
1.11 (5.2)	Supply connection and external wiring		Pass
1.11 (5.2.1)	Means of connection	Screw terminal block or supply cord (optional)	Pass
	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 10 Hz -200 Hz or protected from outdoor environment		N/A
1.11 (5.2.2)	Type of cable..... :	H03VVH2-F	Pass
	Nominal cross-sectional area (mm ²)	2 x 0,75 mm ²	Pass
	Cables equal to IEC 60227 or IEC 60245		Pass
1.11 (5.2.3)	Type of attachment X, Y or Z	Type Y	Pass
1.11 (5.2.5)	Type Z not connected to screws		N/A
1.11 (5.2.6)	Cable entries:		Pass
	- suitable for introduction		Pass
	- adequate degree of protection		Pass
1.11 (5.2.7)	Cable entries through rigid material have rounded edges		Pass
1.11 (5.2.8)	Insulating bushings:		N/A
	- suitably fixed		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- tubes or guards made of insulating material		N/A
1.11 (5.2.9)	Locking of screwed bushings		N/A
1.11 (5.2.10)	Cord anchorage:		Pass
	- covering protected from abrasion		Pass
	- clear how to be effective		Pass
	- no mechanical or thermal stress		Pass
	- no tying of cables into knots etc.		Pass
	- insulating material or lining		Pass
1.11 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
1.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	Type Y	Pass
1.11 (5.2.10.3)	Tests:		Pass
	- impossible to push cable; unsafe		Pass
	- pull test: 25 times; pull (N) :	60 N	Pass
	- torque test: torque (Nm)..... :	0,25 Nm	Pass
	- displacement ≤ 2 mm	0,2 mm displacement	Pass
	- no movement of conductors		Pass
	- no damage of cable or cord		Pass
	- function independent of electrical connection		Pass
1.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with maximum current of 2 A:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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/30 V DC		N/A
	Pull test of 30N		N/A
1.11 (5.2.11)	External wiring passing into luminaire		N/A
1.11 (5.2.12)	Looping-in terminals		N/A
1.11 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
1.11 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
1.11 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)		N/A
1.11 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Appliance inlet or connector systems (IEC 61984)		N/A
1.11 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
1.11 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- another standard		N/A
1.11 (5.3)	Internal wiring		Pass
1.11 (5.3.1)	Internal wiring of suitable size and type	2 x 0,75 mm ² , H03VVH2-F 1x0,50 or 0,75 mm ² (H05V-K)	Pass
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A)		N/A
	- temperatures.....	(See Annex 2)	N/A
	Green-yellow for protective earth only		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		Pass
	Cross-sectional area (mm ²)..... :	2 x 0,75 mm ² 1 x 0,50 or 0,75 mm ²	Pass
	Insulation thickness (mm) :	Separately approved	Pass
	Extra insulation added where necessary		N/A
1.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A
	Cross-sectional area (mm ²)..... :		N/A
1.11 (5.3.1.3)	Double or reinforced insulation for class II		Pass
1.11 (5.3.1.4)	Conductors without insulation		N/A
1.11 (5.3.1.5)	SELV/PELV current-carrying parts		N/A
1.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
1.11 (5.3.2)	Sharp edges etc.		Pass
	No moving parts of switches etc.	Not used	N/A
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		N/A
1.11 (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
1.11 (5.3.4)	Joints and junctions effectively insulated		N/A
1.11 (5.3.5)	Strain on internal wiring		N/A
1.11 (5.3.6)	Wire carriers		N/A
1.11 (5.3.7)	Wire ends not tinned	The wires have metal tips.	N/A
	Wire ends tinned: no cold flow		N/A
1.11 (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 does not exceed the limits stated in Table 12.2	(See Annex 2)	N/A
	No damage to luminaire wiring after test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK		Pass
1.12 (8.2.1)	Live parts not accessible	Live parts are not accessible when the luminaire has been installed.	Pass
	Basic insulated parts not used on the outer surface without appropriate protection		Pass
	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		Pass
	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		Pass
	Protection in any position		Pass
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable	Not used in the luminaire	N/A
	Double-ended high-pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
1.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
1.12 (8.2.3.a)	Class II luminaire:		Pass
	- basic insulated metal parts not accessible		Pass
	- required insulation from live parts in compliance with Table X.1		N/A
	- glass protective shields not used as supplementary insulation		N/A
1.12 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth		N/A
1.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V)..... :		N/A
	- voltage under load/ no-load DC (V)..... :		N/A
	- interrupted DC voltage (V) :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- touch current if applicable (mA)		N/A
	One conductive part insulated if required		N/A
	Other than ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V).....		N/A
	- voltage under load/ no-load DC (V).....		N/A
	- interrupted DC voltage (V)		N/A
	Class III luminaire only for connection to SELV/PELV		N/A
1.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V).....		N/A
	- voltage under load/ no-load DC (V).....		N/A
	Other than ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V).....		N/A
	- voltage under load/ no-load DC (V).....		N/A
	One pole insulated if required		N/A
1.12 (8.2.4)	Portable luminaire has protection independent of supporting surface		N/A
1.12 (8.2.5)	Compliance with the standard test finger or relevant probe	10 N, inspections by means of test finger.	Pass
1.12 (8.2.6)	Covers reliably secured	Enclosure of the luminaire (See 4.13)	Pass
1.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μ F does not exceed 50 V 1 min after disconnection	No additional capacitors in luminaire.	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 do not exceed 60 V 5 s after disconnection		N/A

1.13 (12)	ENDURANCE TEST AND THERMAL TEST		Pass
1.13 (-)	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 1.14		—
1.13 (12.2)	Selection of lamps and ballasts		—
	Lamp used according to Annex B	(Lamp used see Annex 2)	—
	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	—
1.13 (12.3)	Endurance test		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
	a) mounting-position	Pole Models: ANNA, CEFA, ELIA NOEMI, SALEM, TOBIA	—
	b) test temperature (°C)	35 °C	—
	c) total duration (h)	240 h	—
	d) supply voltage (V)	264 V Un factor 1,1 supply voltage	—
	d) if not equipped with controlgear, constant voltage/current (V) or (A)		—
1.13 (12.3.1d)	d) Class III luminaires powered via information technology communication cable:		N/A
	- voltage under normal operation (V).....		—
	- voltage under abnormal operation (V).....		—
	e) luminaire ceases to operate		—
	f) luminaire with constant light output function		N/A
1.13 (12.3.2)	After endurance test:		Pass
	- no part unserviceable		Pass
	- luminaire not unsafe		Pass
	- no damage to track system		Pass
	- marking legible		Pass
	- no cracks, deformation etc.		Pass
1.13 (12.4)	Thermal test (normal operation)	(See Annex 2)	Pass
1.13 (12.5)	Thermal test (abnormal operation)	(See Annex 2)	N/A
1.13 (12.6)	Thermal test (failed lamp controlgear condition):		N/A
1.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		—
	- case of abnormal conditions		—
	- electronic lamp controlgear		N/A
	- measured winding temperature (°C): at 1,1 Un		—
	- measured mounting surface temperature (°C) at 1,1 Un		N/A
	- calculated mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
1.13 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C) :		N/A
	- track-mounted luminaires		N/A
1.13 (12.7)	Thermal test (failed lamp controlgear in plastic luminaires):		N/A
1.13 (12.7.1)	Luminaire without temperature sensing control		N/A
1.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W :		—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions :		—
	- Ballast failure at supply voltage (V) :		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex W:		N/A
	- case of abnormal conditions :		—
	- measured winding temperature (°C): at 1,1 Un :		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un :		—
	- calculated temperature of fixing point/exposed part (°C)..... :		—
	Ball-pressure test :	See Test Table 1.15 (13.2.1)	N/A
1.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions :		—
	- measured winding temperature (°C): at 1,1 Un :		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un :		—
	- calculated temperature of fixing point/exposed part (°C)..... :		—
	Ball-pressure test :	See Test Table 1.15 (13.2.1)	N/A
1.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions :		—
	- Components retained in place after the test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Test with standard test finger after the test		N/A
1.13 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link..... : Yes ☐ No ☐		—
	- manual reset cut-out : Yes ☐ No ☐		—
	- auto reset cut-out : Yes ☐ No ☐		—
	- case of abnormal conditions :		—
	- highest measured temperature of fixing point/ exposed part (°C): :		—
	Ball-pressure test: :	See Test Table 1.15 (13.2.1)	N/A

1.14 (9)	RESISTANCE TO DUST AND MOISTURE		Pass
1.14 (-)	If IP > IP 20 the order of tests as specified in clause 1.12		Pass
1.14 (9.2)	Tests for ingress of dust, solid objects, and moisture:		Pass
	- classification according to IP..... :	IP55 Models: ANNA, NOEMI, TOBIA ELIA	—
	- mounting position during test..... :	Pole	—
	- fixing screws tightened; torque (Nm) :	ANNA 0,5 Nm, nuts of the cover NOEMI 0,8 Nm, nuts of the cover TOBIA 1,5 Nm, nuts of the cover ELIA 1,5 Nm, screw of the cover	—
	- tests according to clauses..... :	9.2.1; 9.2.6	—
	- electric strength test afterwards	(See 10.2.2)	Pass
	a) no deposit in dust-proof luminaire		Pass
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		Pass
	c.1) For luminaires without drain holes – no water entry		Pass
	c.2) For luminaires with drain holes – no hazardous water entry		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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		Pass
1.14 (9.3)	Humidity test 48 h	25 °C; 94% Relative humidity	Pass

1.15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		Pass
1.15 (10.2.1)	Insulation resistance test		Pass
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ):		N/A
	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:		Pass
	- between live parts of different polarity	>10 MΩ (Min. required: 2 MΩ)	Pass
	- between live parts and mounting surface	>10 MΩ (Min. required: 4 MΩ)	Pass
	- between live parts and metal parts		N/A
	- 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 (Min. required: 2 MΩ)	Pass
	- Insulation bushings as described in Section 5		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.15 (10.2.2)	Electric strength test		Pass
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		N/A
	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:		Pass
	- between live parts of different polarity	1480 V	Pass
	- between live parts and mounting surface	2960 V	Pass
	- between live parts and metal parts		N/A
	- 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	Pass
	- Insulation bushings as described in Section 5		N/A
1.15 (10.3)	Touch current (mA).....	Measured 0,48 µA (Limit 0,7 mA peak)	Pass
	Protective conductor current (mA).....		N/A

1.16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		Pass
1.16 (13.2.1)	Ball-pressure test	See Test Table 1.16 (13.2.1)	Pass
1.16 (13.3.1)	Needle-flame test (10 s).....	See Test Table 1.16 (13.3.1)	N/A
1.16 (13.3.2)	Glow-wire test (650 °C).....	See Test Table 1.16 (13.3.2)	Pass
1.16 (13.4)	Proof tracking test (IEC 60112).....	See Test Table 1.16 (13.4)	N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

IEC 60598-2-1							
Clause	Requirement + Test				Result - Remark		Verdict
1.8 (11.2)	TABLE I: Creepage distances and clearances						Pass
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						Pass
	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*						Pass
	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	B	> 3 mm	1,5 mm	11.1.B	> 5 mm	2,5 mm	11.1.A
Working voltage (V)..... :					240 V		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)							—
Supplementary information: between live parts of different polarity.							
Distance 2:	R	>3	3,0	11.1.B	>10	5,0	11.1.A
Working voltage (V)..... :					240 V		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)							—
Supplementary information: between live parts and accessible metal parts							
Distance 3:	S	>3	1,5	11.1.B	> 5	2,5	11.1.A
Working voltage (V)..... :					240 V		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)							—
Supplementary information: between supply cable and anchorage							
Distance 4:	R	>6	3,0	11.1.B	>10	5,0	11.1.A
Working voltage (V)..... :					240 V		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)							—
Supplementary information: between current-carrying parts and supporting surface.							

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

IEC 60598-2-1							
Clause	Requirement + Test				Result - Remark		Verdict
1.8 (11.2)	TABLE II: Creepage distances and clearances						N/A
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages							
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	—	—	—	—	—	—	—
Working voltage (V)..... :							—
Frequency if applicable (kHz)..... :							—
PTI..... :					< 600 ☐ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) :							—
Supplementary information:							
Distance 2:	—	—	—	—	—	—	—
Working voltage (V)..... :							—
Frequency if applicable (kHz)..... :							—
PTI..... :					< 600 ☐ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) :							—
Supplementary information:							
Distance 3:	—	—	—	—	—	—	—
Working voltage (V)..... :							—
Frequency if applicable (kHz)..... :							—
PTI..... :					< 600 ☐ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) :							—
Supplementary information:							

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

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Clause	Requirement + Test	Result - Remark	Verdict

1.16 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics			Pass
Allowed impression diameter (mm) :		2 mm		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Enclosure / polycarbonate	Bayer / Makrolon 2405	125	1,7	
Supplementary information:				

1.16 (13.3.1)	TABLE: Needle-flame test				N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Supplementary information:					

1.16 (13.3.2)	TABLE: Resistance to heat and fire - Glow wire tests				Pass
Object/ Part No./ Material	Manufacturer/ trademark	GWT (°C) : 650			Verdict
		t _E (s)	t _I (s)	t _R (s)	
Enclosure / polycarbonate (PC)	Bayer / Makrolon 2405	0	0	0	Pass
Translucent cover / polymethyl methacrylate (PMMA)	LG / HP210	0	0	0	Pass
Ignition of the specified layer placed underneath the test specimen (Yes/No) :					No
Supplementary information:					

1.16 (13.4)	TABLE: Proof tracking test					N/A
Test voltage PTI :		175 V			—	
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict	
Supplementary information:						
ANNEX 1	TABLE: Critical components information					

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Clause	Requirement + Test			Result - Remark		Verdict
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Description:	Plastic enclosure					
Base, reflector, decorative frame	C	Bayer	Makrolon 2405	Polycarbonate GWFI 1- 3 mm 850 °C Vicat temperature 145 °C	IEC 60598-1:2020	Tested in the luminaire
Translucent cover.	C	LG	HP210	Polymethyl methacrylate HB	IEC 60598-1:2020	Tested in the luminaire
Description:	Lampholder					
Edison screw Lampholder	A	Fujian Minqing Mcwong Ceramics & Electronic Co. Ltd.	F519	E27, 500 V, 4 A, T 180 °C	EN 60238:2018 +A1:2018 +A2:2021	VDE (121802)
Edison screw Lampholder	D/A	ARDITI	911	E27, 250 V, 4 A, T 180 °C	EN 60238:2018 +A1:2018 +A2:2021	ENEC 03 (CA04.09697)
Edison screw Lampholder	A	ARDITI	87A	E27, 250 V, 4 A, T 210 °C 0,5-2,5 mm ²	EN 60238:2018 +A1:2018 +A2:2021	ENEC 03 (EN 732)
Lampholder for fluorescent lamps	A	Guangdong Kangrong High-tech New Material Co.	K566C	GX53, 2 A, 250 V, T 180 °C	EN 60400:2017 +A1:2021	ENEC14 (2400332)
Description:	Supply wiring for version with supply cord.					
Internal wiring	A	Ningbo Jiulianan Wire	H03VVH2-F	2 x 0,75 mm ² 300 / 500 V T 90 °C	EN 50525-2- 11:2011	VDE (106428)
Description:	Internal Wiring					
Internal wiring	A	Italian Cable Company	H05V-K H05V-U	1x0,50 mm ² 1x0,75 mm ² 300 / 500 V T 180 °C	EN 50525-2- 31:2011	IMQ HAR (A2261)
Internal wiring	A	Jiang Yin Tianqi	H05S-K H05SJ-K	1 x 0,75 mm ² 300 / 500 V T 180 °C	EN 50525-2- 41:2011	VDE (40017265)
Description:	Connecting device					
Screw terminal block	A	Kimbe	500	1...2,5 mm ² , 450 V, 24 A, T 110 °C,	EN 60998-1:2004 EN 60998-2- 1:2004	VDE (40025212)

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Clause	Requirement + Test	Result - Remark	Verdict

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Description:	Sleeves					
Sleeves	C	Balconi	—	Ø 6 mm, 1,5 kV	IEC 60598-1:2020	Tested in the luminaire
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		Pass				
	Type reference :	Model: ANNA Type ref.: E22.000	—				
	Lamp used :	PHILIPS Tornado T2 23 W	—				
	Lamp controlgear used :	—	—				
	Mounting position of luminaire :	Pole	—				
	Supply wattage (W)..... :	15,8 W @ 220 V, 50 Hz 16,5 W @ 230 V, 50 Hz 17,6 W @ 240 V, 50 Hz	—				
	Supply current (A) :	0,14 A @ 240 V, 50 Hz	—				
	Calculated power factor :	0,520 @ 240 V, 50 Hz	—				
	Temperatures in test 1 - 4 below are corrected for t _a (°C) :	25 °C	—				
	- abnormal operating mode :	—	—				
1.12 (12.4)	- test 1: rated voltage :	240 V, 50 Hz	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	254,4 V, 50 Hz	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage :	—	—				
	Through wiring or looping-in wiring loaded by a current of A during the test :	—	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	—	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		Test 1	Test 2	Test 3	Limit	Test 4	Limit
Wiring the lampholder	26,1	61,8	64,4	—	90	—	—
Bifurcation on the cable 10 mm	26,1	57,7	60,0	—	90	—	—
Contact of the lampholder	26,1	68,6	71,3	—	180	—	—
Supply cable under anchorage	26,1	43,8	44,9	—	75	—	—
Enclosure of fluorescent lamps Point 1	26,1	84,0	87,2 #	—	85	—	—
Base of the fluorescent lamp Point 2	26,1	77,8	80,7	—	—	—	—
Internal temperature	26,1	69,2	73,1	—	—	—	—
Mounting surface	26,1	28,5	28,5	—	90	—	—
Supplementary information:							
# Accepted due to the 5 °C allowance							

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Clause	Requirement + Test	Result - Remark	Verdict

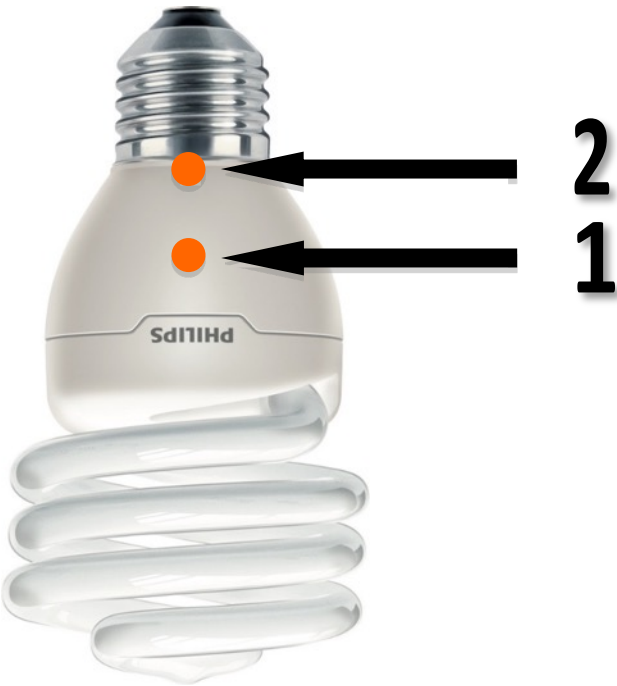
ANNEX 2	TABLE: Thermal tests of Section 12		Pass				
	Type reference :	Model: SALEM Type ref.: K26.000	—				
	Lamp used :	PHILIPS Tornado T2 23 W	—				
	Lamp controlgear used :	—	—				
	Mounting position of luminaire :	Pole	—				
	Supply wattage (W)..... :	17,6 W @ 240 V, 50 Hz	—				
	Supply current (A) :	0,14 A @ 240 V, 50 Hz	—				
	Calculated power factor :	0,520 @ 240 V, 50 Hz					
	Temperatures in test 1 - 4 below are corrected for ta (°C) :	25 °C	—				
	- abnormal operating mode :	—	—				
1.12 (12.4)	- test 1: rated voltage :	240 V, 50 Hz	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	254,4 V, 50 Hz	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage :	—	—				
	Through wiring or looping-in wiring loaded by a current of A during the test :	—	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	—	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		Test 1	Test 2	Test 3	Limit	Test 4	Limit
Wiring the lampholder	24,8	57,6	59,0	—	90	—	—
Bifurcation on the cable 10 mm	24,8	53,9	55,3	—	90	—	—
Contact of the lampholder	24,8	65,3	66,7	—	180	—	—
Supply cable under anchorage	24,8	40,5	41,0	—	75	—	—
Enclosure of fluorescent lamps Point 1	24,8	79,9	81,8	—	85	—	—
Base of the fluorescent lamp Point 2	24,8	75,9	75,4	—	—	—	—
Internal temperature	24,8	44,8	45,3	—	—	—	—
Mounting surface	24,8	28,5	28,5	—	90	—	—
Supplementary information:							

ANNEX 2	TABLE: Thermal tests of Section 12	Pass
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Clause	Requirement + Test	Result - Remark	Verdict				
	Type reference:	Model: CEFA Type ref.: U23.000	—				
	Lamp used:	PHILIPS Tornado T2, 23 W	—				
	Lamp controlgear used:	—	—				
	Mounting position of luminaire:	Pole	—				
	Supply wattage (W):	17,6 W at 240 V, 50 Hz	—				
	Supply current (A):	0,14 A at 240 V, 50 Hz	—				
	Calculated power factor:	0,520 at 240 V, 50 Hz					
	Temperatures in test 1 - 4 below are corrected for ta (°C):	25 °C	—				
	- abnormal operating mode:	—	—				
1.12 (12.4)	- test 1: rated voltage:	240 V, 50 Hz	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	254,4 V, 50 Hz	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:	—	—				
	Through wiring or looping-in wiring loaded by a current of A during the test:	—	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	—	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		Test 1	Test 2	Test 3	Limit	Test 4	Limit
Wiring the lampholder	24,8	57,4	59,0	—	90	—	—
Bifurcation on the cable 10 mm	24,8	58,6	60,4	—	90	—	—
Contact of the lampholder	24,8	66,1	67,9	—	180	—	—
Supply cable under anchorage	24,8	41,05	42,2	—	75	—	—
Enclosure of fluorescent lamps Point 1	24,8	78,6	80,9	—	85	—	—
Base of the fluorescent lamp Point 2	24,8	72,7	74,9	—	—	—	—
Internal temperature	24,8	70,6	72,7	—	—	—	—
Mounting surface	24,8	28,5	28,5	—	90	—	—
Supplementary information:							

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Clause	Requirement + Test	Result - Remark	Verdict

Measuring points of the lamp



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Clause	Requirement + Test	Result - Remark	Verdict				
ANNEX 2	TABLE: Thermal tests of Section 12		Pass				
	Type reference	Model: NOEMI Type ref.: U23.000	—				
	Lamp used	Fumagalli H.LED HIP.3K	—				
	Lamp controlgear used	—	—				
	Mounting position of luminaire	Pole	—				
	Supply wattage (W)	45,1 W at 220 V, 60 Hz 45,2 W at 230 V, 60 Hz 45,2 W at 240 V, 60 Hz	—				
	Supply current (A)	0,209 A at 220 V, 60 Hz 0,201 A at 230 V, 60 Hz 0,193 A at 240 V, 60 Hz	—				
	Calculated power factor	0,976 at 240 V, 60 Hz					
	Temperatures in test 1 - 4 below are corrected for ta (°C)	25 °C	—				
	- abnormal operating mode	—	—				
1.12 (12.4)	- test 1: rated voltage	240 V, 60 Hz	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	254,4 V, 60 Hz	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	—	—				
	Through wiring or looping-in wiring loaded by a current of A during the test	—	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	—	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		Test 1	Test 2	Test 3	Limit	Test 4	Limit
Wiring the lampholder	25,2	59,6	59,6	—	90	—	—
Contact of the lampholder	25,2	62,7	62,6	—	180	—	—
Screw terminal block	25,2	55,5	55,5	—	110	—	—
Supply cable	25,2	56,2	55,9	—	90	—	—
Supply cable under anchorage	25,2	61,6	61,4	—	75	—	—
Internal temperature	25,2	58,6	58,6	—	—	—	—
Mounting surface	25,2	24,8	24,8	—	90	—	—
Supplementary information:							

IEC 60598-2-1							
Clause	Requirement + Test				Result - Remark		Verdict
ANNEX 2	TABLE: Thermal tests of Section 12						Pass
	Type reference	Model: ELIA Type ref.: Q43.000W1L				—	
	Lamp used	Fumagalli H4.LED HIP.4K				—	
	Lamp controlgear used	—				—	
	Mounting position of luminaire	Pole				—	
	Supply wattage (W)	55,8 W at 220 V, 60 Hz 55,9 W at 230 V, 60 Hz 55,9 W at 240 V, 60 Hz				—	
	Supply current (A)	0,265 A at 220 V, 60 Hz 0,255 A at 230 V, 60 Hz 0,246 A at 240 V, 60 Hz				—	
	Calculated power factor	0,956 at 220 V, 60 Hz 0,949 at 230 V, 60 Hz 0,946 at 240 V, 60 Hz				—	
	Temperatures in test 1 - 4 below are corrected for ta (°C)	25 °C				—	
	- abnormal operating mode	—				—	
1.12 (12.4)	- test 1: rated voltage	240 V, 60 Hz				—	
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	254,4 V, 60 Hz				—	
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	—				—	
	Through wiring or looping-in wiring loaded by a current of A during the test	—				—	
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	—				—	
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		Test 1	Test 2	Test 3	Limit	Test 4	Limit
Wiring the lampholder	25,3	52,6	53,7	—	90	—	—
Contact of the lampholder	25,3	63,8	63,8	—	180	—	—
Screw terminal block	25,3	52,2	52,2	—	110	—	—
Supply cable	25,3	51,8	52,0	—	90	—	—
Supply cable under anchorage	25,3	61,2	61,5	—	75	—	—
Internal temperature	25,3	49,4	49,3	—	—	—	—

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		Test 1	Test 2	Test 3	Limit	Test 4	Limit
Gasket	25,3	41,3	41,6	—	90	—	—
Optical diffuser	25,3	27,9	27,9	—	90	—	—
Mounting surface	25,3	25,0	25,0	—	90	—	—
Supplementary information:							

IEC 60598-2-1			
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		—
	Rated current (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).....		—
(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)		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 60598-2-1			
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		—
	Rated current (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

IEC 60598-2-1			
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:											

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

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

Attachment 1	CENELEC COMMON MODIFICATIONS (EN)
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IEC60598_2_1J ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60598-2-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Luminares Part 2: Particular requirements Section 1: Fixed general purpose luminaires			
Differences according to : EN IEC 60598-2-1:2021 used in conjunction with EN IEC 60598-1:2021 + AMD11:2022			
TRF template used : IECCE OD-2020-F2:2020, Ed. 1.1			
Attachment Form No..... : EU_GD_IEC60598_2_1J			
Attachment Originator..... : UL(Demko)			
Master Attachment..... : 2024-10-18			
Copyright © 2024 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			
	CENELEC COMMON MODIFICATIONS (EN)		N/A
1.6 (3)	MARKING		N/A
1.6 (3.2.12)	Note 4 deleted		N/A
1.7 (4)	CONSTRUCTION		N/A
1.7 (4.11.6)	Electro-mechanical contact systems: electric strength test at 1500 V		N/A
1.11 (5)	EXTERNAL AND INTERNAL WIRING		Pass
1.11 (5.2.2)	Cables equal to EN 50525 (all parts)		Pass
	Paragraph 2 deleted		Pass
	Replace table 5.1 – Supply cord		Pass
1.13 (12)	ENDURANCE TESTS AND THERMAL TESTS		Pass
1.13 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		Pass

Attachment 1	CENELEC COMMON MODIFICATIONS (EN)
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IEC60598_2_11 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		N/A
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(5.2.1)	CY, DK, FI, UK: type of plug		N/A
(5.2.18)	DK: socket-outlets		N/A

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		Pass
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	FR: Safety requirements for high buildings <i>(Decree of 30 December 2011 on safety regulations for the construction of high-rise buildings and their protection against fire and panic risks; Section VIII; Article GH 48, Lighting)</i> Glow-wire test for outer parts of luminaires:		Pass
	- 850 °C for luminaires in stairways and horizontal travel paths		N/A
	- 650 °C for indoor luminaires		Pass
	UK: Requirements according to United Kingdom Building Regulation		N/A

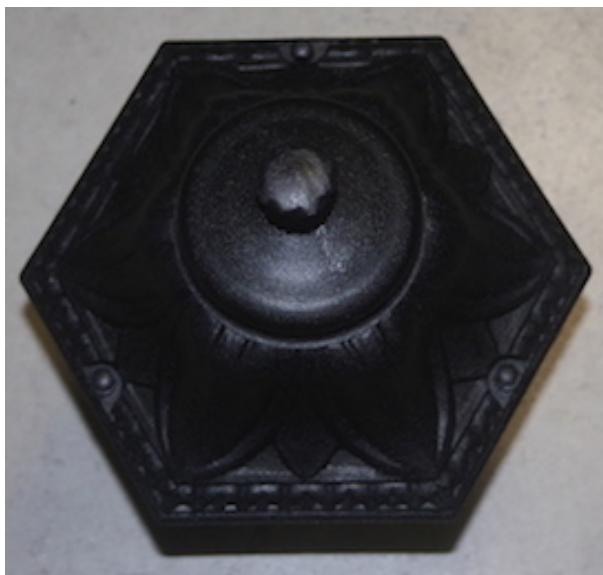
Attachment 2	National differences
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National Differences for (country name) or Group Differences		
This test report refers to the complete tests carried out on the following luminaires: evaluation according to the National Differences and Common Differences between: IEC 60598-2-1:2021 used in conjunction with IEC 60598-1:2020 and SASO IEC 60598-2-1:2021 used in conjunction with SASO IEC 60598-1:2020		
Country	National Differences and Common Differences	Last modification
SAUDI ARABIA.	National differences	2024-10-18
Declared on the latest version of CB Bulletin published on IECEE website on 2025-03-27		



ATTACHMENT to TRF IEC60598_2_1J			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60598-2-1:2020 SAUDI ARABIA NATIONAL DIFFERENCES Luminaires PART 2: PARTICULAR REQUIREMENTS SECTION 1: FIXED GENERAL-PURPOSE LUMINAIRES			
Differences according to:		National standard SASO-IEC-60598-2-1:2021	
TRF template used: :		IECEE OD-2020-F3:2022, Ed. 1.2	
Attachment Form No. :		SA_ND_IEC60598_2_1J	
Attachment Originator :		Saudi Standards, Metrology and Quality Organization (SASO)	
Master Attachment :		2024-10-18	
Copyright © 2024 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			
	National Differences		Pass
	Plugs used for pluggable equipment comply with standard SASO-2203		N/A
	Frequency (Hz)		Pass
	60 Hz	50/60 Hz	Pass
	Rated Voltage (V)		Pass
	Single phase 230 V Three phase 400 V	220 -240 V	Pass

Attachment 3	Photographs
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Photograph No. 1 Serie ANNA**Photograph No. 2** ANNA, top cover

Attachment 3	Photographs
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Photograph No. 3 ANNA external enclosure



Photograph No. 4 ANNA internal cover

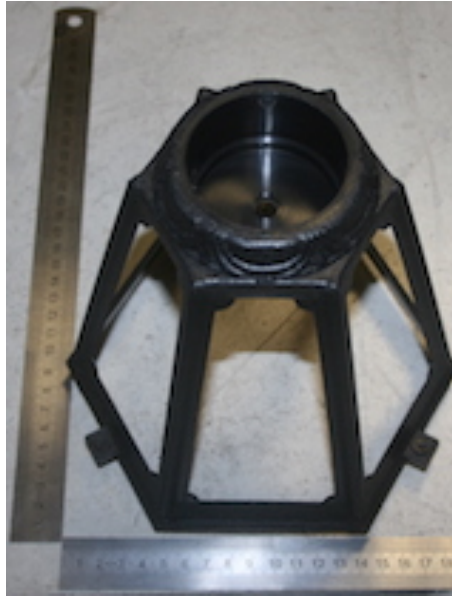


Attachment 3	Photographs
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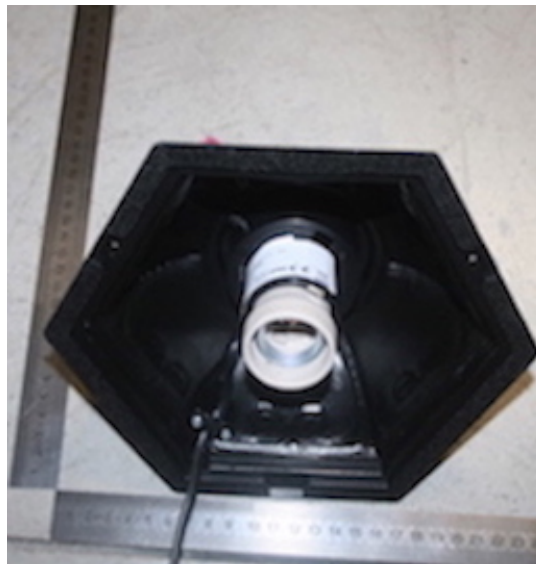
Photograph No. 5 Model SABA**Photograph No. 6 Model SABA, transparent screen**

Attachment 3	Photographs
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Photograph No. 7 SABA, external enclosure



Photograph No. 8 Internal cover, with supply cable.



Attachment 3	Photographs
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Photograph No. 9 Model GIAMPY



Photograph No. 10 Model GIAMPY, base view



Attachment 3	Photographs
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Photograph No. 11 GIAMPY, after removed the cover



Photograph No. 12 Internal cover, with lampholder



Attachment 3	Photographs
--------------	-------------

Photograph No. 13 Model MARY**Photograph No. 14** Luminaire opened

Attachment 3	Photographs
--------------	-------------

Photograph No. 15 Cover with lamp holder



Photograph No. 16 Internal enclosure after removing the transparent screen



Attachment 3	Photographs
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Photograph No. 17 ROBY external enclosure



Photograph No. 18 ROBY internal cover

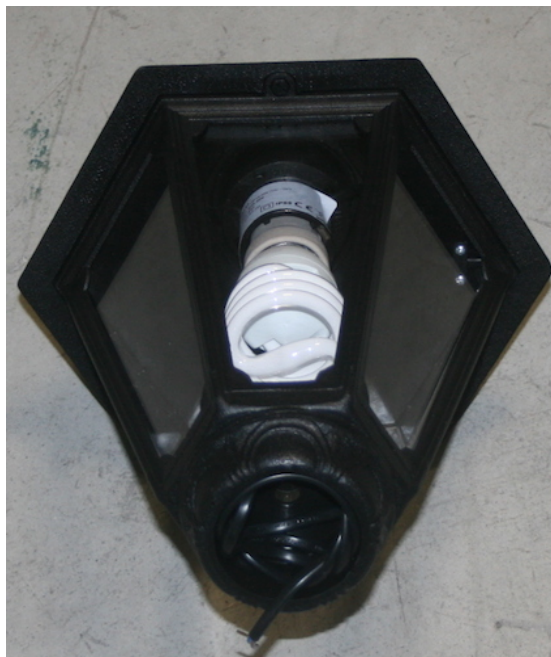


Attachment 3	Photographs
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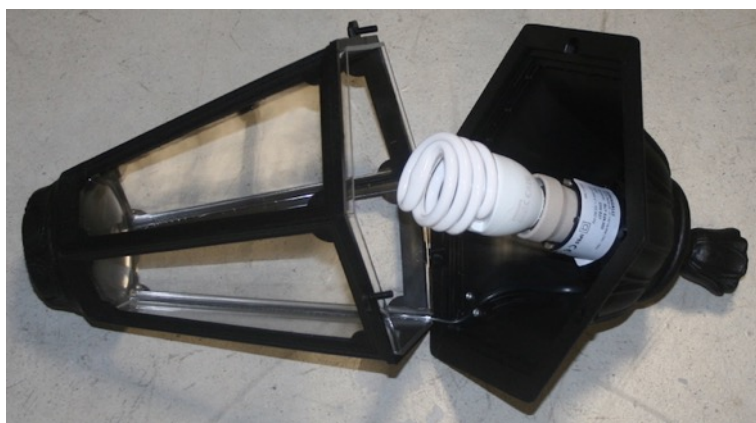
Photograph No. 19 Luminaire opened**Photograph No. 20** Cover with lamp holder

Attachment 3	Photographs
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Photograph No. 21 Model RUT, external enclosure



Photograph No. 22 RUT, after removing the cover.



Attachment 3	Photographs
--------------	-------------

Photograph No. 23 RUT, top cover



Photograph No. 24 Models RUT and SALEM



Attachment 3	Photographs
--------------	-------------

Photograph No. 25 Model SALEM**Photograph No. 26** External enclosure

Attachment 3	Photographs
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Photograph No. 27 Model SANDRO**Photograph No. 28** Pole attachment view

Attachment 3	Photographs
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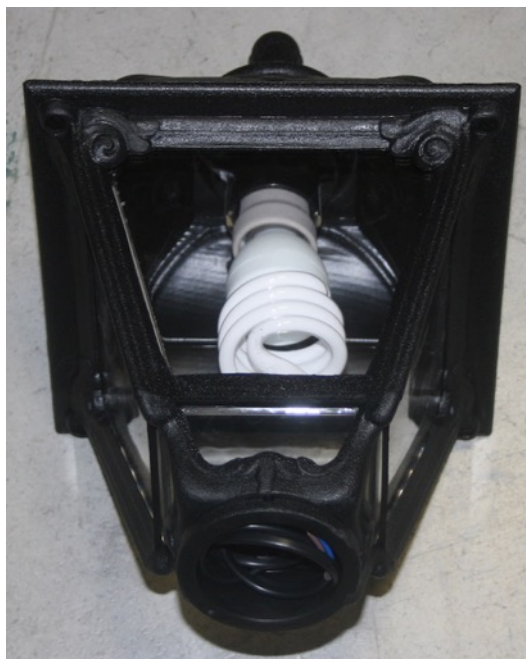
Photograph No. 29 Luminaire after removed the cover



Photograph No. 30 Lampholder with supply cable



Attachment 3	Photographs
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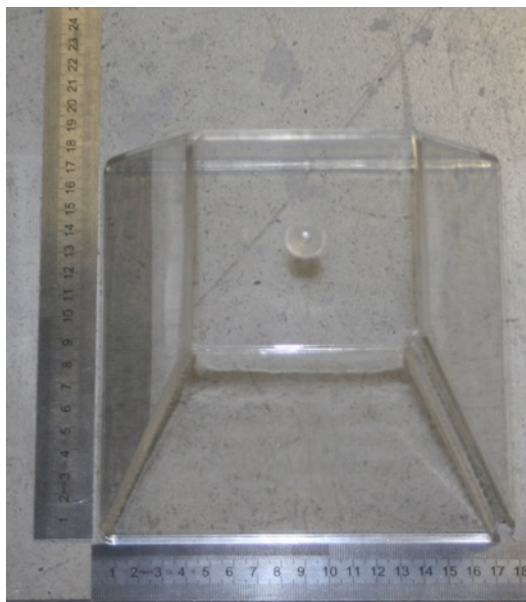
Photograph No. 31 Series CEFA**Photograph No. 32** CEFA external enclosure

Attachment 3	Photographs
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Photograph No. 33 CEFA after removing the cover.



Photograph No. 34 CEFA transparent screen



Attachment 3	Photographs
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Photograph No. 35 CEFA external enclosure

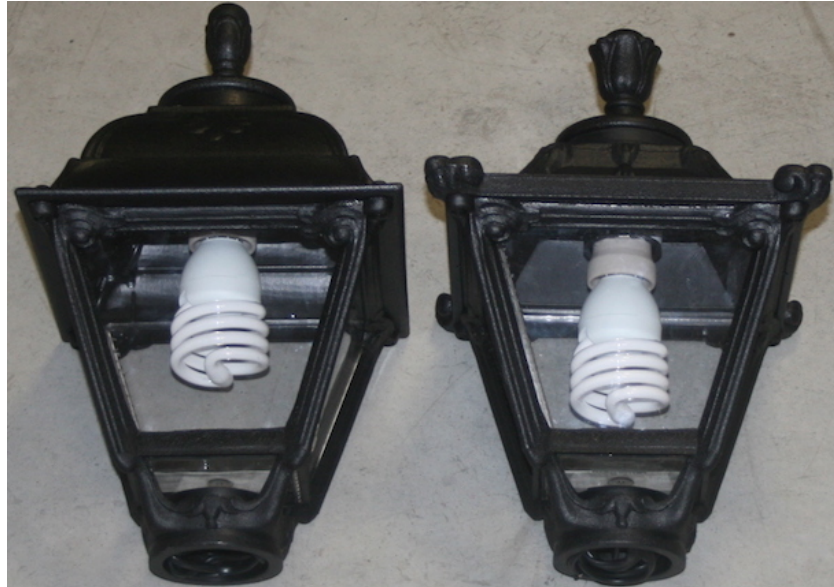


Photograph No. 36 CEFA internal enclosure after removing the transparent screen

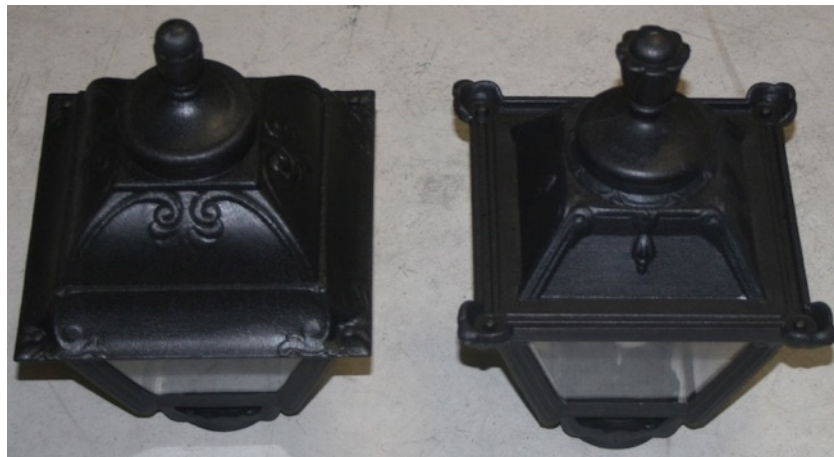


Attachment 3	Photographs
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Photograph No. 37 Model CEFA and GOLIA



Photograph No. 38 CEFA and GOLIA top view



Attachment 3	Photographs
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Photograph No. 39 Model DARIO



Photograph No. 40 DARIO external enclosure



Attachment 3	Photographs
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Photograph No. 41 DARIO after removing the cover.



Photograph No. 42 Cover with lampholder



Attachment 3	Photographs
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Photograph No. 43 Model SERGIO with lamp holder E27, 50 W



Photograph No. 44 Internal view of the component plate



Attachment 3	Photographs
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Photograph No. 45 SERGIO top view of the cover



Photograph No. 46 Components plate, with 4 lamp holder GX53



Attachment 3	Photographs
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Photograph No. 47 Model NOEMI with lamp holder E27, 50 W

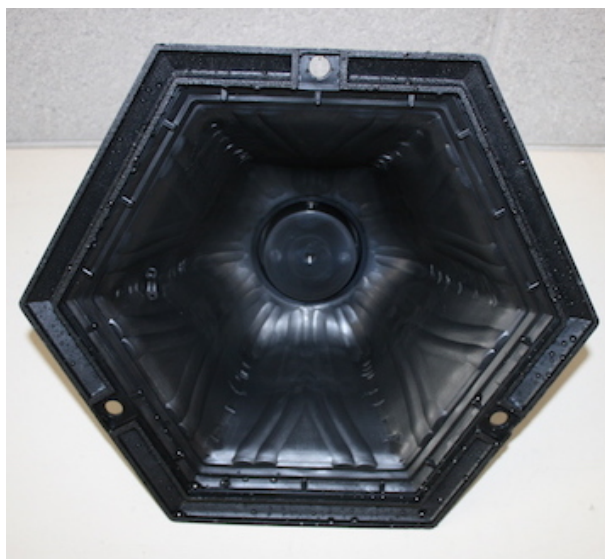


Photograph No. 48 Components plate after removing the cover.



Attachment 3	Photographs
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Photograph No. 49 Internal cover



Photograph No. 50 Model TOBIA with lamp holder E27, 50 W



Attachment 3	Photographs
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Photograph No. 51 Components plate after removing the cover.

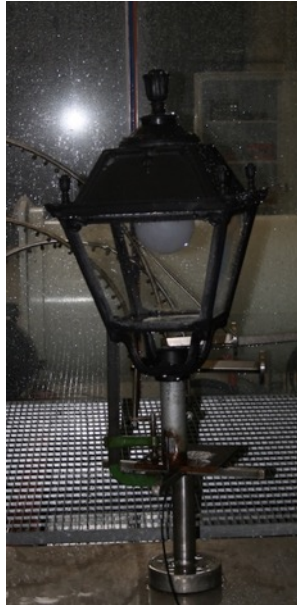


Photograph No. 52 LED Lamp E27 50 W



Attachment 3	Photographs
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Photograph No. 53 Model ELIA with lamp holder E27, 60 W



Photograph No. 54 Components plate after removing the cover.



Attachment 3	Photographs
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Photograph No. 55 Internal cover



Photograph No. 56 Gasket and bushing.



Attachment 3	Photographs
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Photograph No. 57 Components plate after removing the cover.



Photograph No. 58 LED Lamp E27 60 W

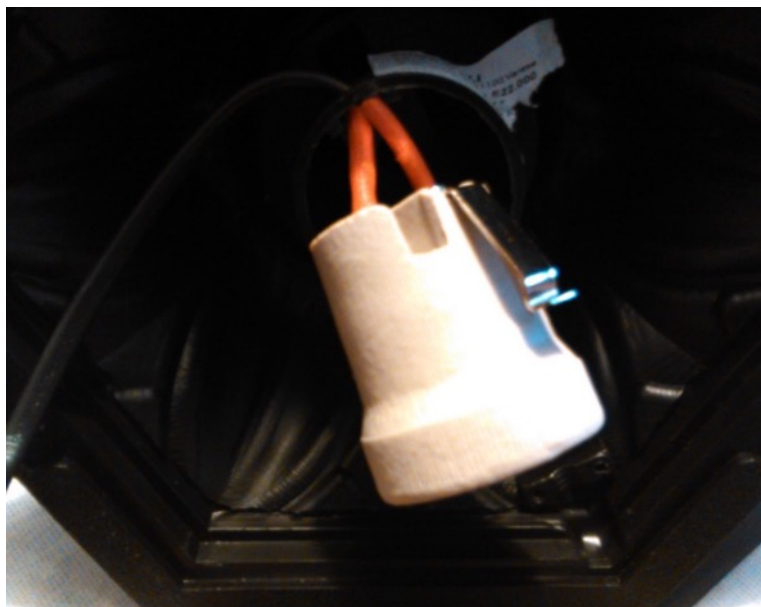


Attachment 3	Photographs
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Photograph No. 59 Components plate, with 3 lamp holder GX53



Photograph No. 60 Internal wiring with lamp holder. Sleeves are mounted for version with supply cable



Attachment 3	Photographs
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Photograph No. 61 Cover on the lamp holder.



IST001-1121



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CE

VERSIONS:
E27

SMALL-MEDIUM
LANTERN





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CAUTION! Installation and maintenance procedures must be carried out only after switching off the electricity supply. Fumagalli Srl accepts no responsibility whatsoever for damages caused by incorrect installation, misuse or when used by combining it with non-original spare parts. If in doubt, consult a qualified electrician. Keep the instructions.

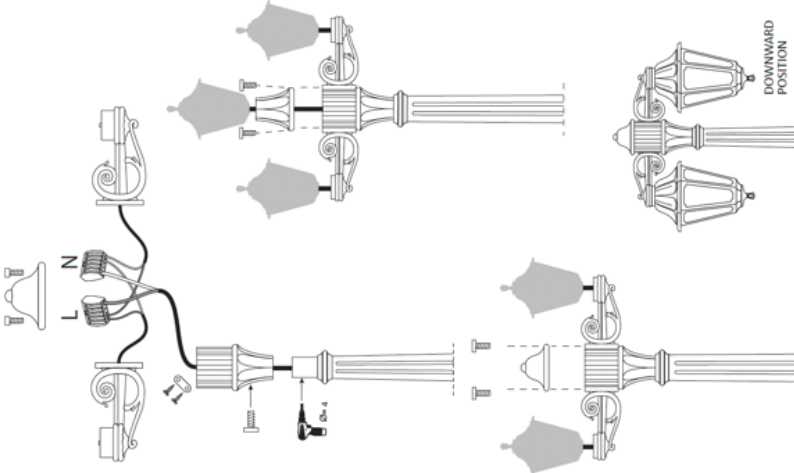
ATTENZIONE! L'installazione e la manutenzione dell'apparecchio devono essere eseguite solo dopo aver disinserito l'energia elettrica. Fumagalli Srl non accetta responsabilità per danni causati da incorretta installazione, incorretto uso o dall'utilizzo di parti di ricambio che non appartengono al prodotto originale. Per qualsiasi dubbio, consultare un elettricista qualificato. Conservare le istruzioni.

ATTENTION! Les opérations de montage et d'entretien ne doivent être effectuées que lorsque le courant électrique est coupé. Fumagalli Srl n'accepte pas aucun responsabilité pour toutes les dommages causés par une mauvaise installation, par un utilisation incorrecte ou par l'utilisation des pièces de rechange qui ne sont pas originales. En cas de doutes, faites appel à un électricien qualifié. Conserver les instructions.

PRECAUCIÓN! Lleve a cabo la instalación y mantenimiento tras cortar la tensión de la instalación eléctrica. En cualquier caso Fumagalli Srl no aceptará responsabilidad alguna por instalación incorrecta, mal uso o por su uso con accesorios no originales del fabricante. En caso de duda consulte con un electricista cualificado. Guarde estas instrucciones.

تعليمات التركيب والصيانة يجب تنفيذها إلا بعد إيقاف تشغيل التيار الكهربائي. الشركة المنتجة فوماجالي لا تقبل أي مسؤولية عن الأضرار الناجمة عن التركيب غير الصحيح، سوء الاستخدام، أو عند استخدام قطع غيار غير أصلية عند الجمع. إذا كنت غير متأكد، فاستشر كهربائي مختص، قم بتتبع التعليمات.

SYSTEM INSTALLATION



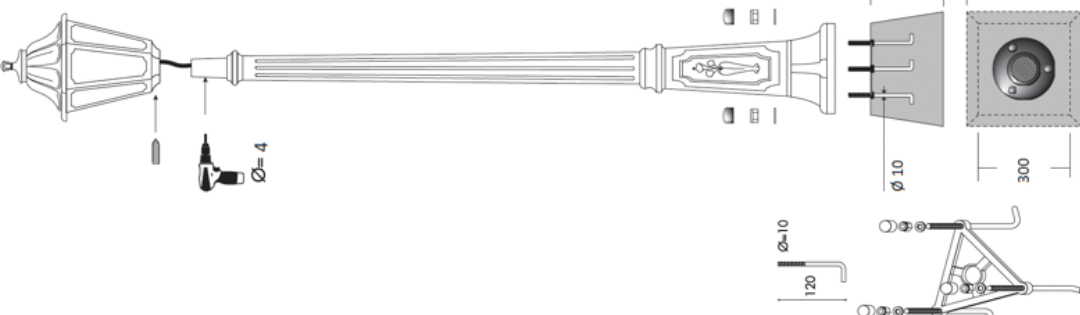
DOWNWARD POSITION



[WARRANTY] Fumagalli products are CE marked. Declaration CE of conformity available at the time of purchase. Fumagalli Srl accepts no responsibility for damages caused by manufacturing faults, Fumagalli Srl according to his unquestionable judgement, will proceed to the repair or the replacement. This warranty does not cover any cost neither regarding the transport, nor the installation, nor the re-installation, nor the dismantlement of the material.

[GARANZIA] I prodotti Fumagalli sono marchiati CE. La Dichiarazione CE di conformità è disponibile al momento dell'acquisto. Fumagalli Srl non accetta responsabilità per danni causati da difetti di fabbricazione Fumagalli Srl a suo insindacabile giudizio, procederà alla sua riparazione o sostituzione. In nessun caso l'acquirente potrà reclamare rimborsi o spese sostenute per l'installazione, la disinstallazione, il trasporto o lo smaltimento del materiale.

POST INSTALLATION



CAGE - B
--132--
400

CAGE - A
--123--
400

300

Ø 10

120

IST040-1024

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**VERSIONS:
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**SMALL-MEDIUM
REVIVAL LANTERN**

! OFF

! OFF

260
GIAMPI
H21.000

210
ROBY
H20.000

240
DARIO
H24.000

290
FABIO
H20.000

CAUTION! Installation and maintenance procedures must be carried out only after switching off the electricity supply. Use energy saving lamps only. If present, fit the gasket properly inside the diffuser, to ensure the IP protection. Fumagalli Srl accepts no responsibility whatsoever for damages caused by incorrect installation, misuse or use of non original spare parts. If in doubt, consult a qualified electrician. Keep the instructions.

ATTENZIONE! L'installazione e la manutenzione dell'apparecchio devono essere eseguite solo dopo aver disinserito l'energia elettrica. Utilizzare solo lampade a basso consumo. Laddove presente, assicurarsi del corretto posizionamento della guarnizione all'interno dell'apparecchio al fine di garantire il grado di protezione IP. Fumagalli Srl non accetta responsabilità per danni causati da incorretta installazione, uso o di parti non originali. In caso di dubbi, consultare un elettricista qualificato. Conservare le istruzioni.

ATTENTION! Les opérations de montage et d'entretien ne doivent être effectuées que lorsque le courant électrique est coupé. Utiliser seulement des ampoules à économie d'énergie. Si présent, assurer le positionnement correct de la joint dans l'appareil, afin de garantir le degré de protection IP. Fumagalli Srl n'accepte pas de responsabilité pour dommages causés par une installation incorrecte, utilisation d'accessoires non originaux. En cas de doutes, faites appel à un électricien qualifié. Conserver les instructions.

PRECAUCIÓN! Lleve a cabo la instalación y mantenimiento tras cortar la tensión de la instalación eléctrica. Use únicamente lámparas de ahorro. Si se incluye, juste correctamente el aro de goma con el producto para asegurar la protección IP indicada en el producto. En cualquier caso Fumagalli Srl no aceptará responsabilidad por daños causados por una instalación incorrecta, uso de accesorios no originales del fabricante. En caso de duda consulte con un electricista cualificado. Guarde estas instrucciones.

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POST INSTALLATION

**MAX 23 W
MAX 250 V
50/60 Hz**

0.5 N m

Ø=4

Ø=10

120

Ø 10

300

400

400

**CAGE - B
-182**

FUMAGALLI LAMP
E27 LED
E27 E
F
CCT SET

WARRANTY! Fumagalli products are **CE** marked. Declaration **CE** of conformity available at www.fumagalli.it. Fumagalli products are covered by a 3-year warranty against manufacturing faults. Fumagalli Srl, according to his unquestionable judgement, will proceed to the repair or the replacement. This warranty does not cover any cost neither regarding the transport, nor the uninstallation, nor the re-installation, nor the dismantlement of the material.

[GARANZIA] I prodotti Fumagalli sono marchiati **CE**. La Dichiarazione **CE** di conformità è disponibile su www.fumagalli.it. I prodotti Fumagalli godono di una garanzia di legge di 3 anni. Nel caso di difetti di fabbricazione, Fumagalli Srl, secondo il suo incontestabile giudizio, provvederà alla riparazione o alla sostituzione. In nessun caso l'acquirente potrà reclamare rimborsi o spese sostenute per l'installazione, la disinstallazione, il trasporto o lo smaltimento del materiale.

SYSTEM INSTALLATION

**MAX 23 W
MAX 250 V
50/60 Hz**

0.5 N m

Ø=4

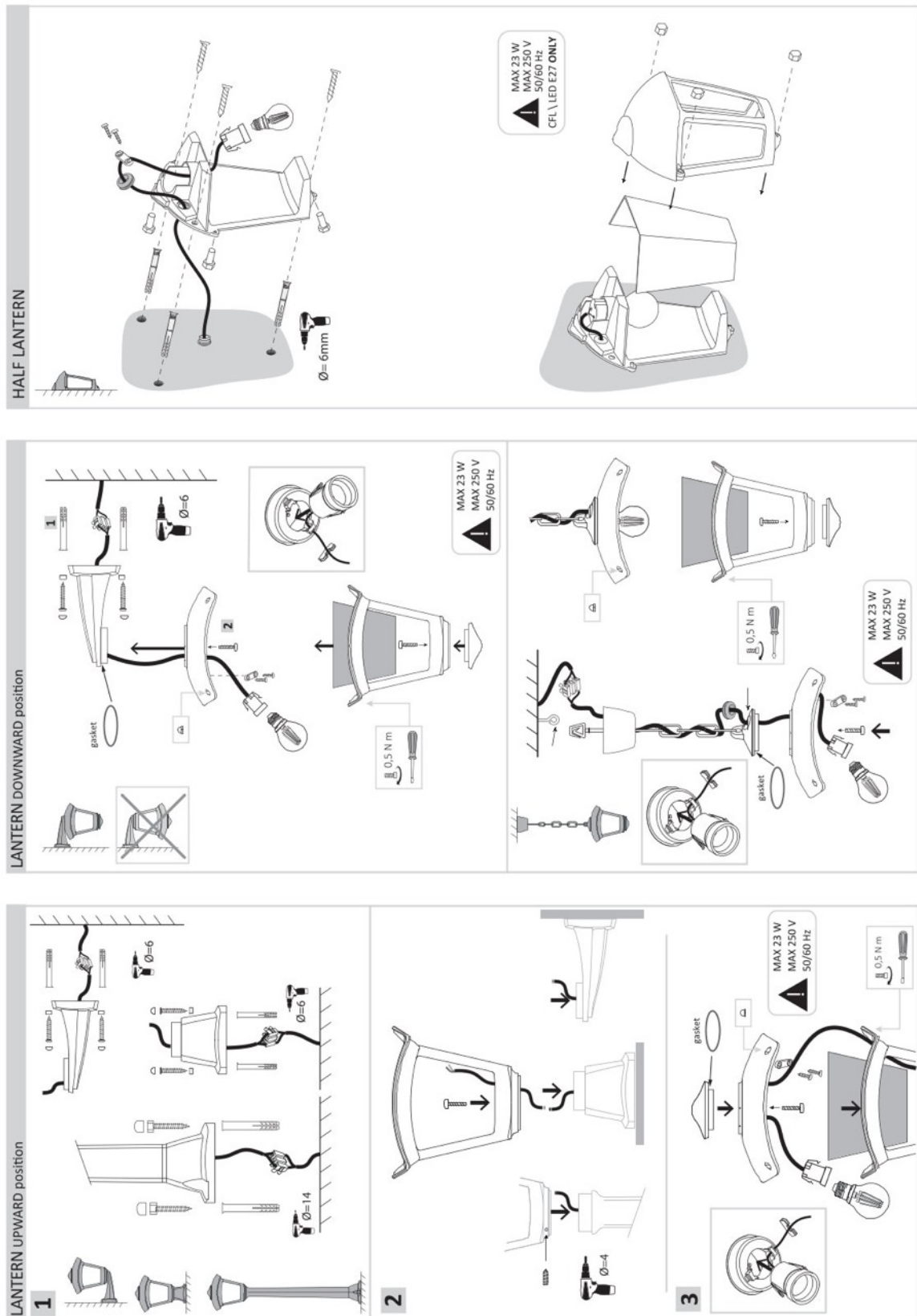
Ø=10

SYSTEM 2L

SYSTEM 3L

POSITION

Attachment 4 Instruction



Attachment 4 Instruction

	SILOE - NOEMI CLASSIC LANTERN - LARGE SIZE	VERSIONS: E27 E27 HIGH POWER LED GX53 LED	 MADE IN ITALY www.fumagalli.it
	UK CAUTION! Follow carefully the instructions to ensure a correct and safe operation. Installation and maintenance procedures must be carried out only after switching off the electricity supply. Fumagalli Srl accepts no responsibility whatsoever for damages caused by incorrect installation, misuse or when used by combining it with spare parts not belonging to the products. If in doubt, consult a qualified electrician. Keep the instructions. F ATTENTION! Suivre attentivement les instructions pour garantir un fonctionnement correct et sûr. Les opérations de montage et d'entretien ne doivent être effectuées que lorsque le courant électrique est coupé. Fumagalli Srl n'accepte pas aucun responsabilité pour toutes les dommages causés par une mauvaise installation, par un' utilisation incorrecte or par l'utilisation des pièces de rechange qui ne sont pas originales. En cas de doutes, faites appel à un électricien qualifié. Conserver les instructions. I ATTENZIONE! Seguire attentamente le istruzioni per garantire un funzionamento corretto e sicuro. L'installazione e la manutenzione dell'apparecchio devono essere eseguite solo dopo aver disinserito l'energia elettrica. Fumagalli Srl non accetta responsabilità per danni causati da incorretta installazione, incorretto uso o dall'utilizzo di parti di ricambio che non appartengono al prodotto originale. Per qualsiasi dubbio, consultare un elettricista qualificato. Conservare le istruzioni. E PRECAUCIÓN! Seguir atentamente las instrucciones para garantizar un funcionamiento correcto y seguro. Lleve a cabo la instalación y mantenimiento tras cortar la tensión de la instalación eléctrica. En cualquier caso Fumagalli Srl no aceptará responsabilidad alguna por instalación incorrecta, mal uso o por su uso con accesorios no originales del fabricante. En caso de duda consulte con un electricista cualificado. Guarde estas instrucciones.		
		GX53 LED MAX 3x10 W MAX 220-240 V 50/60 Hz	
E27 HIGH POWER LED ADAPTER RING FOR E27 30W HIGH POWER LED LAMP MAX 50 W MAX 220-240 V 50/60 Hz		SCREW UP ALL THE NUTS VERY TIGHT 0,8 N m E27 HIP GX53 E27 E27 MAX 70 W MAX 220-240V 50/60 Hz	
DOWN position Ø= 10		UP position ≈ 5 mm	

[WARRANTY] Fumagalli products are CE marked. Declaration CE of conformity available at www.fumagalli.it/company. The warranty of Fumagalli product is of 1 year. In case of evident manufacturing faults, Fumagalli Srl according to his unquestionable judgement, will proceed to the repair or the replacement. This warranty does not cover any cost neither regarding the transport, nor the uninstillation, nor the re-instillation, nor the dismantlement of the material.

[GARANZIA] I prodotti Fumagalli sono marchiati CE. La Dichiarazione CE di conformità è disponibile su www.fumagalli.it/company. I prodotti Fumagalli godono di una garanzia di legge di 1 anno. Nel caso di evidenti difetti di fabbricazione Fumagalli Srl, a suo insindacabile giudizio, procederà alla sua riparazione o sostituzione. In nessun caso l'acquirente potrà reclamare rimborsi o spese sostenute per l'installazione, la disinstallazione, il trasporto o lo smaltimento del materiale.

Attachment 4 Instruction



SIMON - TOBIA
CLASSIC LANTERN - LARGE SIZE

VERSIONS:
E27
E27 HIGH POWER LED
2x E27
GX53 LED




MADE IN ITALY
www.fumagalli.it

UK CAUTION! Follow carefully the instructions to ensure a correct and safe operation. Installation and maintenance procedures must be carried out only after switching off the electricity supply. If present, fit the gasket properly inside the diffuser, to ensure the IP protection. Fumagalli Srl accepts no responsibility whatsoever for damages caused by incorrect installation, misuse or when used by combining it with spare parts not belonging to the products. If in doubt, consult a qualified electrician. Keep the instructions.

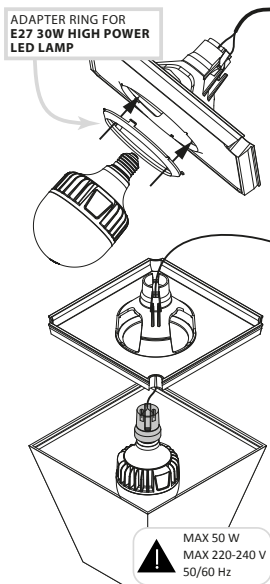
ATTENZIONE! Seguire attentamente le istruzioni per garantire un funzionamento corretto e sicuro. L'installazione e la manutenzione dell'apparecchio devono essere eseguite solo dopo aver disinserito l'energia elettrica. Laddove presente, assicurarsi del corretto posizionamento della guarnizione all'interno del diffusore al fine di garantire il grado di protezione IP. Fumagalli Srl non accetta responsabilità per danni causati da incorretta installazione, incorretto uso o dall'utilizzo di parti di ricambio che non appartengono al prodotto originale. Per qualsiasi dubbio, consultare un elettricista qualificato. Conservare le istruzioni.

ATTENTION! Suivre attentivement les instructions pour garantir un fonctionnement correct et sûr. Les opérations de montage et d'entretien ne doivent être effectuées que lorsque le courant électrique est coupé. Si présent, assurer le positionnement correct de le joint dans le diffuseur, afin de garantir le degré de protection IP. Fumagalli Srl n'accepte pas aucun responsabilité pour toutes les dommages causés par une mauvaise installation, par un utilisation incorrecte ou par l'utilisation des pièces de rechange qui ne sont pas originales. En cas de doutes, faites appel à un électricien qualifié. Conserver les instructions.

PRECAUCIÓN! Seguir atentamente las instrucciones para garantizar un funcionamiento correcto y seguro. Lleve a cabo la instalación y mantenimiento tras cortar la tensión de la instalación eléctrica. Si se incluye, juste correctamente el aro de goma con el difusor para asegurar la protección IP indicada en el producto. En cualquier caso Fumagalli Srl no aceptará responsabilidad alguna por instalación incorrecta, mal uso o por su uso con accesorios no originales del fabricante. En caso de duda consulte con un electricista cualificado. Guarde estas instrucciones.

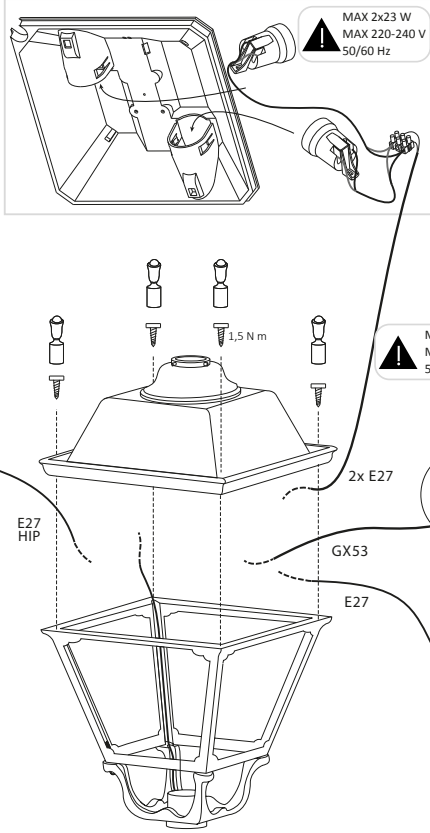
E27 HIGH POWER LED

ADAPTER RING FOR E27 30W HIGH POWER LED LAMP



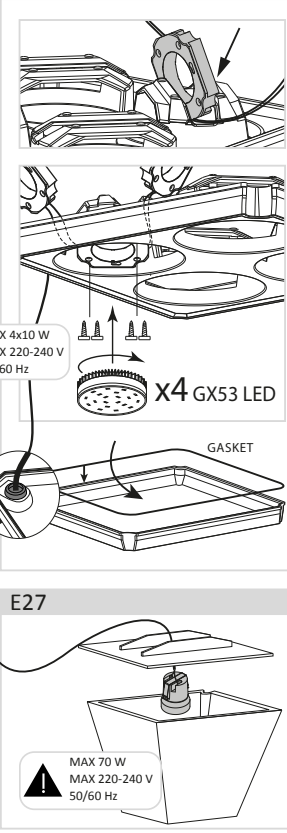
MAX 50 W
MAX 220-240 V
50/60 Hz

2x E27



MAX 2x23 W
MAX 220-240 V
50/60 Hz

GX53 LED

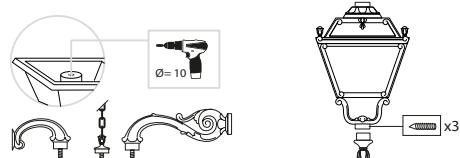


MAX 4x10 W
MAX 220-240 V
50/60 Hz

x4 GX53 LED

GASKET

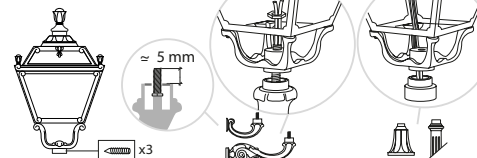
DOWN position



Ø=10

x3

UP position



≈ 5 mm

x3

[WARRANTY] Fumagalli products are CE marked. Declaration CE of conformity available at www.fumagalli.it/company. The warranty of Fumagalli product is of 1 year. In case of evident manufacturing faults, Fumagalli Srl according to his unquestionable judgement, will proceed to the repair or the replacement. This warranty does not cover any cost neither regarding the transport, nor the uninstallation, nor the re-installation, nor the dismantlement of the material.

[GARANZIA] I prodotti Fumagalli sono marchiati CE. La Dichiarazione CE di conformità è disponibile su www.fumagalli.it/company. I prodotti Fumagalli godono di una garanzia di legge di 1 anno. Nel caso di evidenti difetti di fabbricazione Fumagalli Srl, a suo insindacabile giudizio, procederà alla sua riparazione o sostituzione. In nessun caso l'acquirente potrà reclamare rimborsi o spese sostenute per l'installazione, la disinstallazione, il trasporto o lo smaltimento del materiale.

Attachment 4 Instruction



**REVIVAL LANTERN
LARGE SIZE**



SERGIO

VERSIONS:
E27 HIGH POWER LED
E27
GX53 LED



MADE IN ITALY
www.fumagalli.it

IST043- 0224



CAUTION! Installation and maintenance procedures must be carried out only after switching off the electricity supply. If present, fit the gasket properly inside the diffuser, to ensure the IP protection. Fumagalli Srl accepts no responsibility whatsoever for damages caused by incorrect installation, misuse or when used by combining it with non original spare parts. If in doubt, consult a qualified electrician. Keep the instructions.

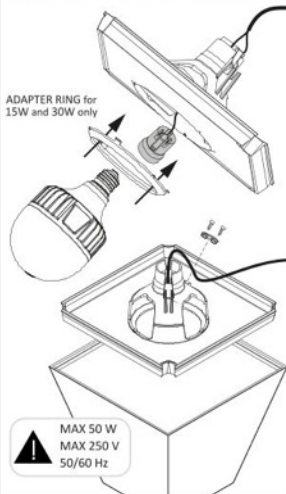
ATTENZIONE! L'installazione e la manutenzione dell'apparecchio devono essere eseguite solo dopo aver disinnestato l'energia elettrica. Laddove presente, assicurarsi del corretto posizionamento della guarnizione all'interno dell'apparecchio al fine di garantire il grado di protezione IP. Fumagalli Srl non accetta responsabilità per danni causati da incorretta installazione, incorretto uso o dall'utilizzo di parti di ricambio che non appartengono al prodotto originale. Per qualsiasi dubbio, consultare un elettricista qualificato. Conservare le istruzioni.

ATTENTION! Les opérations de montage et d'entretien ne doivent être effectuées que lorsque le courant électrique est coupé. Si présent, assurer le positionnement correct de la joint dans l'appareil, afin de garantir le degré de protection IP. Fumagalli Srl n'accepte pas aucune responsabilité pour toutes les dommages causés par une mauvaise installation, par un utilisation incorrecte ou par l'utilisation des pièces de rechange qui ne sont pas originales. En cas de doutes, faites appel à un électricien qualifié. Conserver les instructions.

PRECAUCIÓN! Lleve a cabo la instalación y mantenimiento tras cortar la tensión de la instalación eléctrica. Si se incluye, juste correctamente el aro de goma con el producto para asegurar la protección IP indicada en el producto. En cualquier caso Fumagalli Srl no aceptará responsabilidad alguna por instalación incorrecta, mal uso o por su uso con accesorios no originales del fabricante. En caso de duda consulte con un electricista cualificado. Guarde estas instrucciones.

تحذير! إجراءات التركيب والصيانة يجب تنفيذها إلا بعد إيقاف تشغيل التيار الكهربائي. إذا كان موجوداً، قم بتركيب الحشوة كما ينبغي بصورة صحيحة داخل الغطاء المخصص لنشر الضوء بشكل متساوي. لضمان الحماية من تدفق الماء. الشركة المصنعة فوماجالي لا تقبل أي مسؤولية عن الأضرار الناجمة عن التركيب غير الصحيح، سوء الاستخدام، أو عند استخدام قطع غيار غير أصلية عند الجمع. إذا ابتليك أي شك، قم باستشارة كهربائي مختص. قم بتتبع التعليمات.

E27 HIGH POWER LED

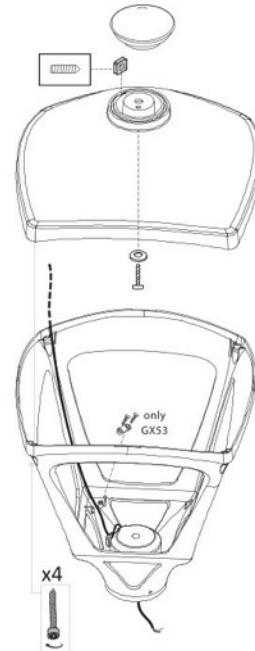


ADAPTER RING for 15W and 30W only

E27 HIP

MAX 50 W
MAX 250 V
50/60 Hz

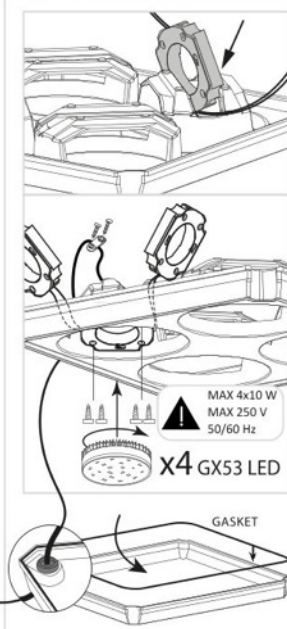
SERGIO UPWARD



only GX53

x4

GX53 LED



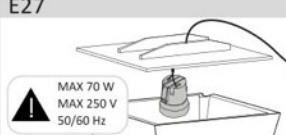
MAX 4x10 W
MAX 250 V
50/60 Hz

x4 GX53 LED

GASKET

GX53

E27

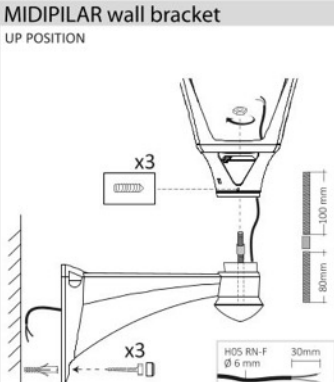


E27

MAX 70 W
MAX 250 V
50/60 Hz

MIDIPILAR wall bracket

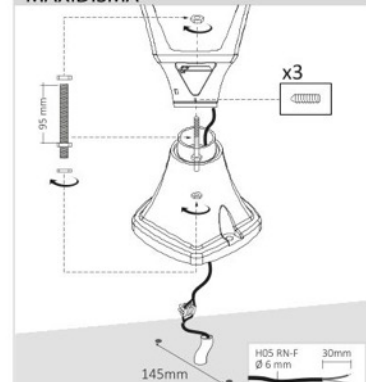
UP POSITION



x3

H05 RN-F 30mm
Ø 6 mm

MAXIDISMA



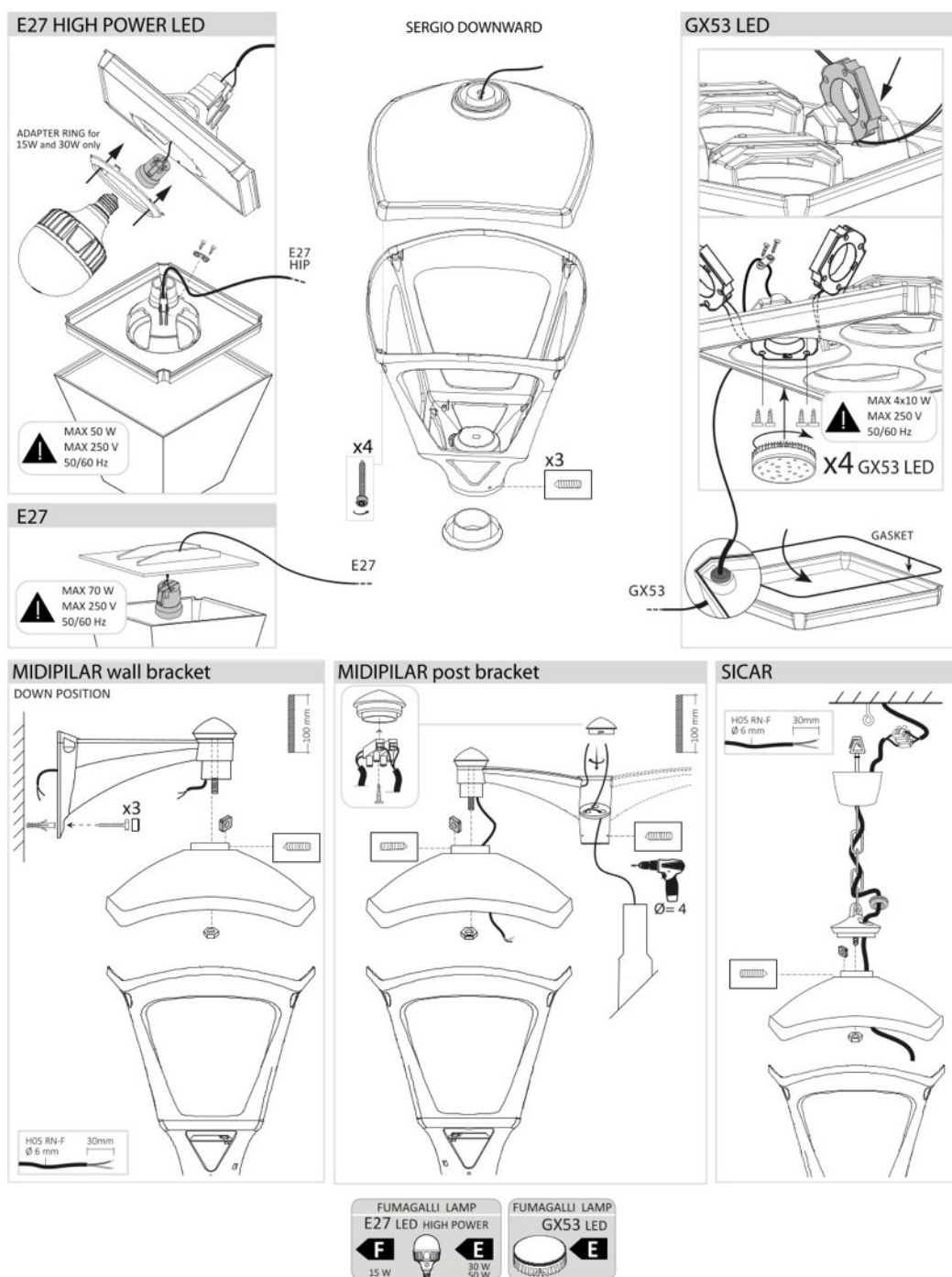
x3

95 mm

145mm

H05 RN-F 30mm
Ø 6 mm

Attachment 4 Instruction



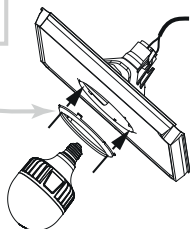
[WARRANTY] Fumagalli products are CE marked. Declaration CE of conformity available at www.fumagalli.it/company. The warranty of Fumagalli product is of 1 year. In case of evident manufacturing faults, Fumagalli Srl according to his unquestionable judgement, will proceed to the repair or the replacement. This warranty does not cover any cost neither regarding the transport, nor the uninstallation, nor the re-installation, nor the dismantlement of the material.

[GARANZIA] I prodotti Fumagalli sono marchiati CE. La Dichiarazione CE di conformità è disponibile su www.fumagalli.it/company. I prodotti Fumagalli godono di una garanzia di legge di 1 anno. Nel caso di evidenti difetti di fabbricazione Fumagalli Srl, a suo insindacabile giudizio, procederà alla sua riparazione o sostituzione. In nessun caso l'acquirente potrà reclamare rimborsi o spese sostenute per l'installazione, la disinstallazione, il trasporto o lo smaltimento del materiale.

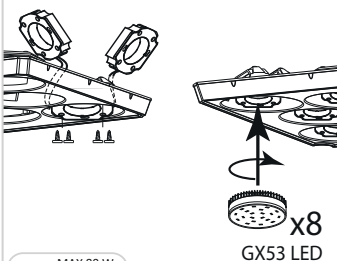
Attachment 4 Instruction

	ELIA - PIETRO CLASSIC LANTERN - GRAND SIZE	VERSIONS: E27 HIGH POWER LED GX53 LED E27 - E40	  MADE IN ITALY www.fumagalli.it
	CAUTION! Installation and maintenance procedures must be carried out only after switching off the electricity supply. If present, fit the gasket properly inside the diffuser, to ensure the IP protection. Fumagalli Srl accepts no responsibility whatsoever for damages caused by incorrect installation, misuse or when used by combining it with non original spare parts. If in doubt, consult a qualified electrician. Keep the instructions.		
	ATTENZIONE! L'installazione e la manutenzione dell'apparecchio devono essere eseguite solo dopo aver disinnestato l'energia elettrica. Laddove presente, assicurarsi del corretto posizionamento della guarnizione all'interno dell'apparecchio al fine di garantire il grado di protezione IP. Fumagalli Srl non accetta responsabilità per danni causati da incorrecta installazione, incorretto uso o dall'utilizzo di parti di ricambio che non appartengono al prodotto originale. Per qualsiasi dubbio, consultare un elettricista qualificato. Conservare le istruzioni.		
	ATTENTION! Les opérations de montage et d'entretien ne doivent être effectuées que lorsque le courant électrique est coupé. Si présent, assurer le positionnement correct de la joint dans l'appareil, afin de garantir le degré de protection IP. Fumagalli Srl n'accepte pas aucune responsabilité pour toutes les dommages causés par une mauvaise installation, par un utilisation incorrecte ou par l'utilisation des pièces de rechange qui ne sont pas originales. En cas de doutes, faites appel à un électricien qualifié. Conserver les instructions.		
	PRECAUCIÓN! Lleve a cabo la instalación y mantenimiento tras cortar la tensión de la instalación eléctrica. Si se incluye, juste correctamente el aro de goma con el producto para asegurar la protección IP indicada en el producto. En cualquier caso Fumagalli Srl no aceptará responsabilidad alguna por instalación incorrecta, mal uso o por su uso con accesorios no originales del fabricante. En caso de duda consulte con un electricista cualificado. Guarde estas instrucciones.		
	تحذير! إجراءات التركيب والصيانة يجب تنفيذها إلا بعد إيقاف تشغيل التيار الكهربائي. إذا كان موجوداً، قم بتركيب الحشوة كما ينبغي بصورة صحيحة داخل الغطاء المخصص لنشر الضوء بشكل متساوي، لضمان الحماية من تدفق الماء. الشركة المصنعة فوماجالي لا تقبل أي مسؤولية عن الأضرار الناجمة عن التركيب غير الصحيح، سوء الاستخدام، أو عند استخدام قطع غيار غير أصلية عند الجمع. إذا ابتكرك أي شك، قم باستشارة كهربائي مختص. قم بتتبع التعليمات.		

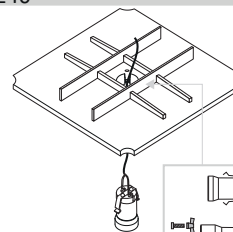
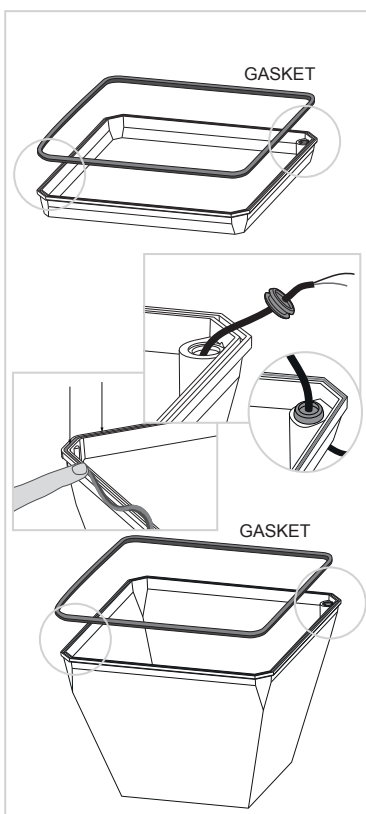
E27 HIGH POWER LED

 ADAPTER RING FOR
 E27 50W HIGH POWER
 LED LAMP

 MAX 60 W
 MAX 250 V
 50/60 Hz

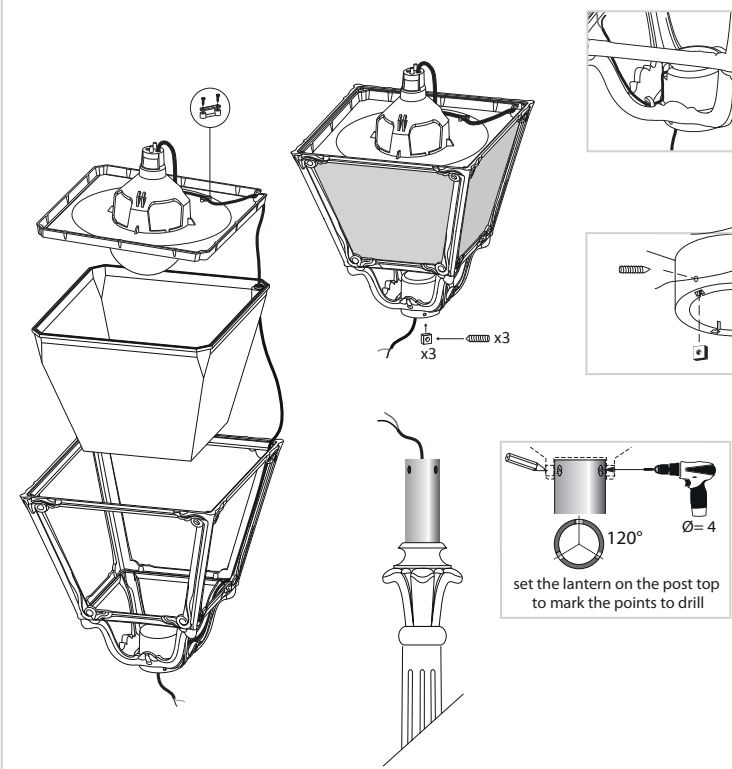
GX53 LED


 MAX 80 W
 MAX 250 V
 50/60 Hz

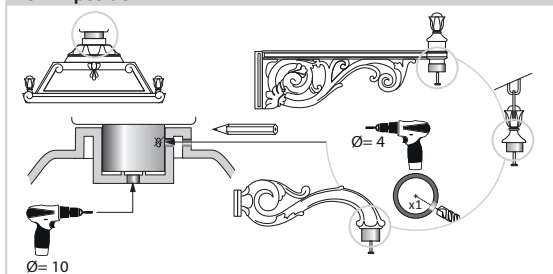
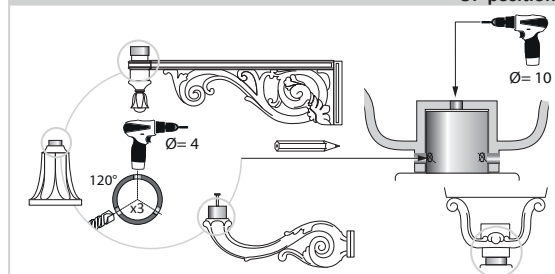
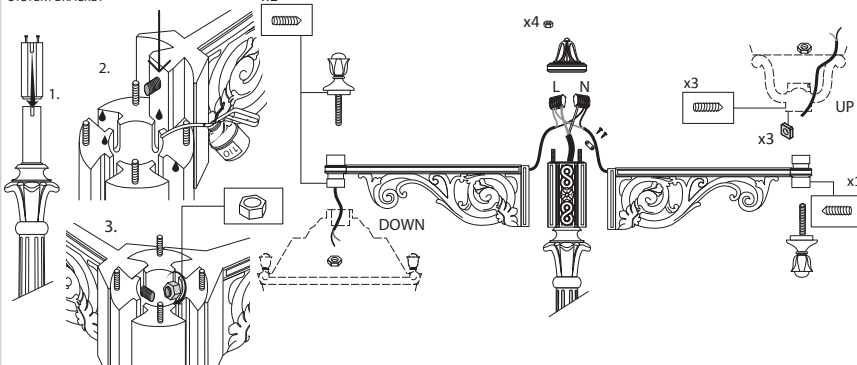
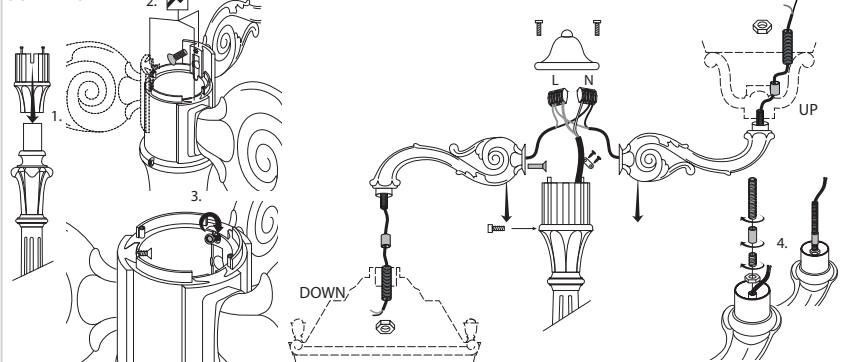
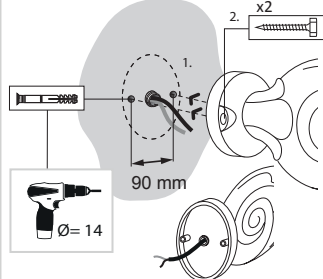
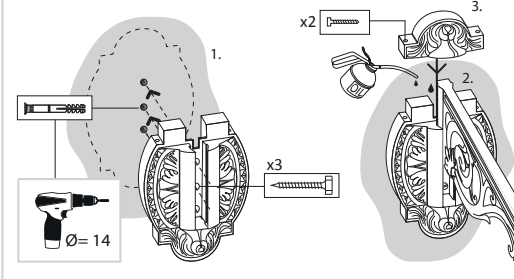
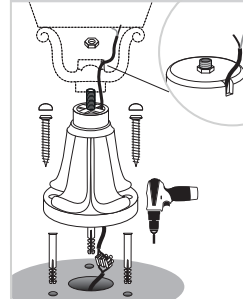
E27 - E40


 MAX 100 W
 MAX 250 V
 50/60 Hz


POST installation



Attachment 4 Instruction

DOWN position**UP position****ARON****SYSTEM BRACKET****ADAM****SYSTEM BRACKET****ADAM****WALL BRACKET****ARON****WALL BRACKET****LOT BASE**

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