

TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant: Elstead Lighting Ltd.
Elstead House, Mill Lane, Alton, Hampshire, GU34 2QJ, United Kingdom

Manufacturer: Elstead Lighting Ltd.
Elstead House, Mill Lane, Alton, Hampshire, GU34 2QJ, United Kingdom

Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
198 Kezhu Road, Science City, Economic & Technology Development Area,
Guangzhou, Guangdong, China

The standards: EN IEC 60598-2-1: 2021 used in conjunction with EN IEC 60598-1: 2021+A11:
2022

Test item description: Fixed luminaires (Lighting Fixture)

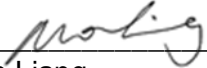
Trade Mark: —


Model/Type reference: PORTOFINO, PORTO, SATURNE

Ratings: 220 V – 240 V AC; 50 Hz / 60 Hz; E27; Max.40 W; Class I; IP44

Test result: In the opinion of SGS – CSTC the presented appliance was found to be in **compliance with** the test specification as indicated in the details on the following pages.

Remark: Throughout this report a comma is used as the decimal separator.
No decision rule is specified by 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”).


Mon Liang
Reviewer
E&E Safety Laboratory


Manda Liu
Project Engineer



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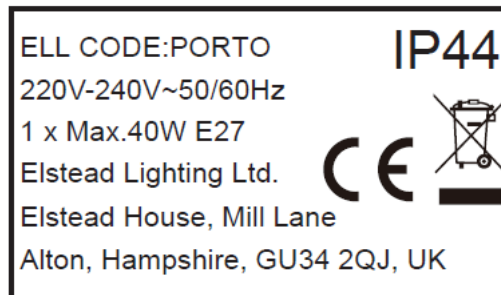
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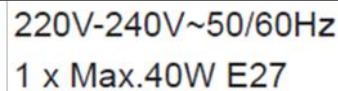
Copy of marking plate

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.

representative



Location: Attached on enclosure



Location: Attached near lampholder

Remark:

1. The height of graphical symbols and CE logo are not less than 5 mm;
2. The height of letters and numerals is not less than 2 mm;
3. The height of WEEE symbol is not less than 7 mm;
4. According to the standard, warning and text required by the standard should be written in the official language(s) of the country in which the appliance is to be sold. The applicant should ensure that the samples in future production fulfill the requirement;
5. As declared by the applicant, the importer (**and manufacturer, if it is different**)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities;
6. Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.
7. Other models have similar label as above, just model no., rated power and the type of lampholder are different.



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Summary of testing:

1. The submitted samples were found to be in compliance with EN IEC 60598-2-1: 2021 used in conjunction with EN IEC 60598-1: 2021+A11: 2022.
2. The submitted appliance with lighting source was found to be in compliance with the standard EN 62493: 2015 according to the clause 4.2.2.
3. Model PORTO was performed the full tests since it is representative model and has most unfavourable thermal condition. Model SATURNE was performed thermal test as it has smaller lamp shade.



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Test item particulars	
Equipment mobility	Fixed
Operating condition	Continuous
Class of equipment	Class I
Degree of protection	IP44
Mass of equipment	—
Supply construction	Terminal block
Possible test case verdicts:	
- test case does not apply to the test object	N/A (not applicable)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2023-04-18
Date (s) of performance of tests	2023-04-18 to 2023-05-23
General product information:	
<ol style="list-style-type: none"> 1. Fixed luminaires, wall mounting, connected to supply via terminal block, E27 lampholder used, IP44, Class I. 2. All models are identical in electrical and mechanical construction except for appearance and lampholder construction. 	



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Test Results:

IEC 60598-2-1 and/or EN IEC 60598-2-1		
Clause	Remarks	Verdict
1.1 Scope		Info.
1.2 Normative references		Info.
1.3 Terms and definitions		Info.
1.4 General test requirement		P
1.5 Classification of luminaires		P
1.6 Marking	Class I	P
1.7 Construction		P
1.8 Creepage distances and clearances		P
1.9 Provisions for earthing		P
1.10 Terminals		P
1.11 External and internal wiring		P
1.12 Protection against electric shock		P
1.13 Endurance tests and thermal tests		P
1.14 Resistance to dust, solid objects and moisture	IP44	P
1.15 Insulation resistance and electric strength, touch current and protective conductor current		P
1.16 Resistance to heat, fire and tracking		P
(Annex ZB) Special national conditions		N/A
(Annex ZC) A-deviations		N/A



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IEC 62493 and/or EN 62493		
Clause	Remarks	Verdict
4. LIMITS (Test summary)		P
4.2.2 Lighting equipment deemed to comply with the Van der Hoofden test without testing		P
4.2.3 Unintentional radiating part of lighting equipment	factor $F \leq 1$	N/A
4.3 Intentional radiating part of lighting equipment	No intentional radiating from EUT	N/A



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ANNEX 1: Components

object/part No.	Code	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
Terminal block for model SATURNE	B	GREENWAY	M644	250 V; 9 A; 0.5-0,75 mm ² IP44;	EN 60998-1 EN 60998-2-1	DKRA ENEC
Terminal block for model PORTO, PORTOFINO	B	Jiangmen Z&X Products Co., Ltd.	JX1284	450 V; 17,5 A; 3 x 1,5mm ² ; T55; IP54	EN 60998-1 EN 60998-2-1	DKRA ENEC
Earthing wire	B	Guangdong Jiaqixing Electric Tech Co., Ltd.	H05V-K	1 x 0,75 mm ²	EN 50525-2- 31	VDE
External wire for model PORTOFINO, PORTO	B	Guangdong Rifeng Electrical Cable Co., Ltd.	H07RN-F	3 x 1,0 mm ²	EN 50525-2- 21	VDE
Internal wire for model SATURNE	B	Guangdong Jiaqixing Electric Tech Co., Ltd.	(N)6YAF 1 x AWG 24.....AWG 11	20-18 AWG; 180°C	VDE 0250 Teil 106	VDE
Heat-shrinkable tube	B	Guangzhou Kaiheng New Material Co., Ltd.	K-102	125°C; 600 V	EN IEC 60598-1 EN IEC 60598-2-1	UL& Tested with appliance
	D	Changyuan Electronics Group Co., Ltd.	CYG-ZHP	125°C; 600 V	EN IEC60598- 1 EN IEC60598-2-1	UL & Tested with appliance
E27 lampholder for model PORTOFINO, PORTO	B	Guangdong Jiaqixing Electric Tech Co., Ltd.	LFG 7A	250 V AC; 4 A; T210	EN IEC 60238	VDE
Insulated enclosure near E27 lampholder for model PORTOFINO, PORTO	B	Zhong Shan RiXin Plastic Accessory Ltd.	—	PP	EN IEC 60598-1 EN IEC 60598-2-1	Tested with appliance



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E27 lampholder for model SATURNE	B	ZhongShan Xiaolan Town Jia Zhan Electric Appliance Factory	E27-A2	250 V AC; 4 A; T170	EN IEC 60238	VDE
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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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ANNEX 2: temperature measurements, thermal tests of Section 12

Type reference	: PORTO	—
Lamp used.....	: E27; 40 W incandescent lamp	—
Lamp control gear used	: —	—
Mounting position of luminaire.....	: As normal use	—
Supply wattage (W)	: 42	—
Supply current (A).....	: 0,179	—
Calculated power factor	: 1	—
Table: measured temperatures corrected for ta = 25 °C:		
- abnormal operating mode	: —	—
- test 1: rated voltage	: —	—
- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....	: 40 W x 1,05 = 42 W	—
- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	: —	—
- test 4: 1,1 times rated voltage or 1,05 times rated wattage.....	: —	—
Through wiring or looping-in wiring loaded by a current of A during the test	: —	—
Test to determine suitability of conductors having a reduced cross-sectional area (clause 5.4).....	: —	—

Temperature measurements, (°C)

Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Lampholder contact point	25,0	—	192,0	—	T210	—	—
Lamp rim	25,0	—	174,4	—	T210	—	—
Lamp cap	25,0	—	186,1	—	210	—	—
Internal wire in lampholder	25,0	—	101,4	—	120	—	—
Internal wire near lampholder clamped by cord anchorage	25,0	—	70,5	—	75	—	—
Heat shrinkable tube	25,0	—	101,6	—	125	—	—
Earthing wire	25,0	—	74,6	—	90	—	—
Terminal block	25,0	—	33,6	—	55	—	—
Test piece	25,0	—	35,8	—	90	—	—
Mounted surface	25,0	—	32,4	—	90	—	—



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Lighted object (0,1 m)	25,0	—	31,1	—	90	—	—
Supplementary information: —							



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Type reference	SATURNE	—
Lamp used.....	E27; 40 W incandescent lamp	—
Lamp control gear used	—	—
Mounting position of luminaire.....	As normal use	—
Supply wattage (W)	42	—
Supply current (A).....	0,179	—
Calculated power factor	1	—
Table: measured temperatures corrected for ta = 25 °C:		
- abnormal operating mode	—	—
- test 1: rated voltage	—	—
- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....	40 W x 1,05 = 42 W	—
- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	—	—
- test 4: 1,1 times rated voltage or 1,05 times rated wattage.....	—	—
Through wiring or looping-in wiring loaded by a current of A during the test	—	—
Test to determine suitability of conductors having a reduced cross-sectional area (clause 5.4).....	—	—

Temperature measurements, (°C)

Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Lampholder contact point	25,0	—	135,7	—	T170	—	—
Lamp rim	25,0	—	120,5	—	T170	—	—
Lamp cap	25,0	—	140,0	—	210	—	—
Internal wire in lampholder	25,0	—	85,7	—	180	—	—
Heat shrinkable tube	25,0	—	86,6	—	125	—	—
Earthing wire	25,0	—	29,7	—	90	—	—
Terminal block	25,0	—	29,2	—	55	—	—
Test piece	25,0	—	28,3	—	90	—	—
Mounted surface	25,0	—	30,2	—	90	—	—
Lighted object (0,1 m)	25,0	—	26,3	—	90	—	—

Supplementary information: —



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TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

ANNEX 3: Photo documentation

Details of: General view of model PORTO

View:

- general
- front
- rear
- right
- left
- top
- bottom

drain holes

Details of: General view of model PORTO

View:

- general
- front
- rear
- right
- left
- top
- bottom



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TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

Details of: Canopy view of model PORTO

View:

- general
- front
- rear
- right
- left
- top
- bottom

Cord anchorage was fixed with glue

Details of: Earthing terminal view of model PORTO

View:

- general
- front
- rear
- right
- left
- top
- bottom



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TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

Details of: Lampholder view of model PORTO

View:

general

front

rear

right

left

top

bottom





All gaps were sealed with glue

Details of: Bushing view of model PORTO

View:

general

front

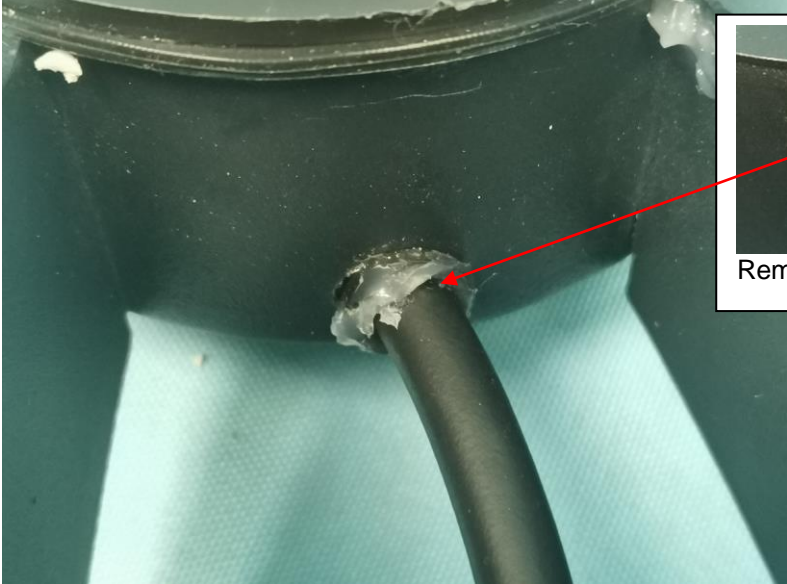
rear


right

left

top

bottom





Removed the glue



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TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

Details of: Lampholder view of model PORTO

View:

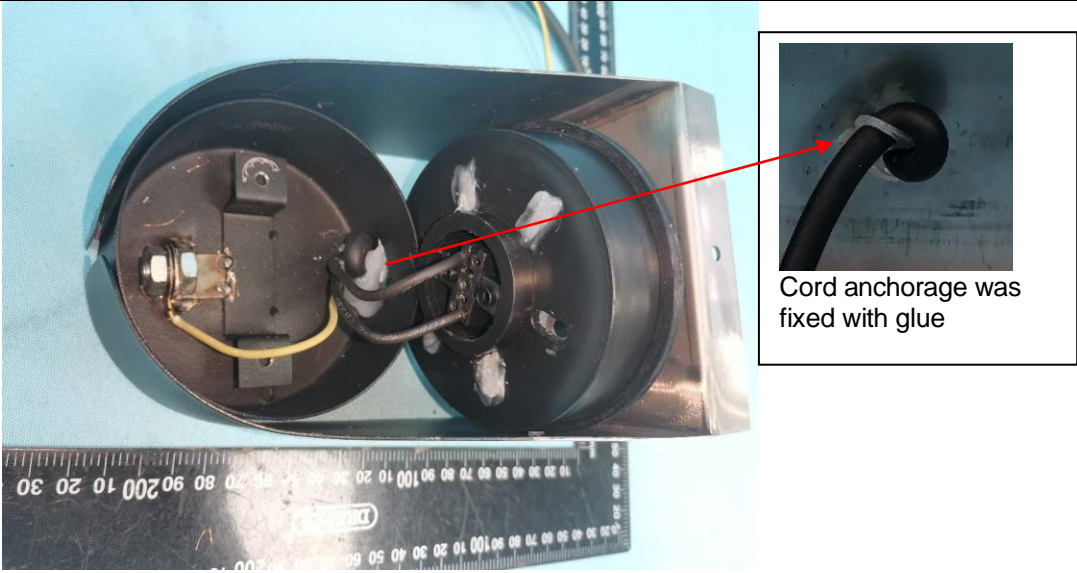
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Lampholder view of model PORTO

View:

- general
- front
- rear
- right
- left
- top
- bottom



Cord anchorage was fixed with glue



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TEST REPORT



Report No.: GZES230300339401

Date: 2023-06-25

Details of: Earthing terminal view of model PORTO

<p>View:</p> <p><input checked="" type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p>	
--	--

Details of: Terminal block of model PORTO, similar to PORTOFINO

<p>View:</p> <p><input checked="" type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p>		
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TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

Details of: General view of model PORTOFINO, similar to model PORTO except the appearance and the mounting bracket

View:

- general
- front
- rear
- right
- left
- top
- bottom

Details of: General view of model PORTOFINO removed the lamp shade

View:

- general
- front
- rear
- right
- left
- top
- bottom



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TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

Details of: Earthing terminal and mounting bracket view of model PORTOFINO

View:

general

front

rear

right

left

top

bottom

Details of: Party view of model PORTOFINO

View:

general

front

rear

right

left

top

bottom

waterproof ring, similar to model PORTO



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Date: 2023-06-25

Details of: Party view of model PORTOFINO

View:

- general
- front
- rear
- right
- left
- top
- bottom

waterproof ring, similar to model PORTO, SATURNE

Details of: General view of model SATURNE

View:

- general
- front
- rear
- right
- left
- top
- bottom

drain hole



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TEST REPORT

Report No.: GZES230300339401

Date: 2023-06-25

Details of: General view of model SATURNE

View:

general

front

rear

right

left

top

bottom

waterproof ring

Details of: Canopy view of model SATURNE

View:

general

front

rear

right

left

top

bottom

Similar to PORTO



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TEST REPORT

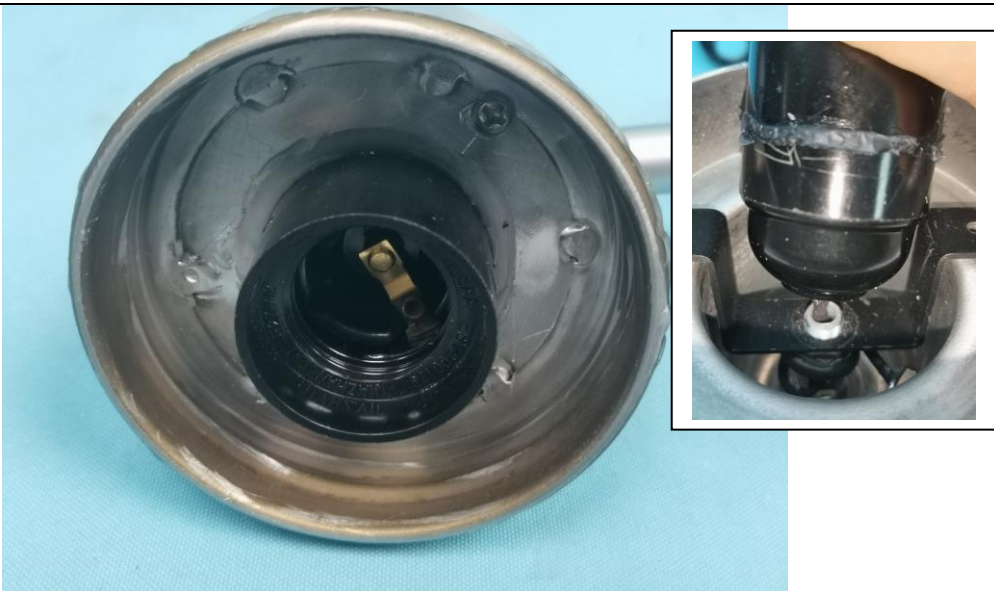
Report No.: GZES230300339401

Date: 2023-06-25

Details of: General view of model SATURNE removed lamp shade

<p>View:</p> <p><input checked="" type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p>	
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Details of: Lampholder view of model SATURNE

<p>View:</p> <p><input checked="" type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p>	
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Date: 2023-06-25

Details of: Lampholder view of model SATURNE

<p>View:</p> <p><input checked="" type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p>	
--	---

Details of: Terminal block of model SATURNE

<p>View:</p> <p><input checked="" type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p>	
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- - End of Report - - -



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