




**BUREAU
VERITAS**

TEST REPORT N°: HVW-17JY191LTZS

TEST REPORT

To:	Bloomingville A/S	To:	-
Attn:	Pia	Attn:	-
Address:	Lene Haus Vej 3-5,DK-7430 Ikast, Denmark	Address:	-
Fax:	--	Fax:	-
E-mail:	pga@bloomingville.com	E-mail:	-

This document includes: 14 pages / annex1: instruction manual

Factory name:	Bloomingville A/S	Offer:	HVW-17JY17-07LTZS-A0
Location:	Lene Haus Vej 3-5,DK-7430 Ikast, Denmark	Sample No:	SZ170708/017
	Start date:	July 18, 2017	
	Finish date:	August 21, 2017	
	Standards used: (Date):	EN 60598-1:2015 EN 60598-2-1:1989 EN 62493:2015	
	Sections examined:	All sections (See page 2 for details)	
	Re-testing:	None	
Fixed luminaire Model: 68801022	Remark / Note:	None	

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The samples comply with the requirements of the examined standards.

Test done by,	Approved by,
Engineer: Lean WANG	Assistant Manager: Sky TAN
Date: August 21, 2017	Date: August 21, 2017

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HISTORICAL OF SAMPLE RECEIVED

BV CHINA RECORDED N°	DETAIL OF THE SAMPLE	SPECIAL REMARKS
SZ170708/017	Original sample	None

EXAMINED SECTIONS

The luminaires covered by this report is class I fixed luminaires and suit for indoor use only.

All sections of EN 62493:2015 have been evaluated. According to clause 4.2 and Annex H, because the samples contains no electronic control gear and it LED lamp technology, so, all samples were deemed to comply with the requirements of this standard without testing because it fulfills the inherent-compliance conditions.

The luminaire shall use the EN 62560/EN 62493 approved LED lamp and specified wattage, and the LED lamp must comply with Exempt Group or Risk Group 1 of EN 62471 and IEC/TR 62778.

COPY OF RATING PLATE:

Rating label in canopy
<p>LAMP MODEL NO.: BATCH NO.: 68801022-63365 220-240V~ 50Hz 1 LED 5W GU10</p> <p>For indoor use only Bloomingville A/S Lene Haus Vej 3-5-DK-7430 Ikast</p> <p>CE Household use symbol F No open flame symbol</p>
Relamping label near lampholder
<p>220-240V~ 50Hz LED 5W GU10</p>
<p>Remark:</p> <ol style="list-style-type: none"> 1. The height of letter and numbers shall be at least 2mm; 2. The height of symbol "WEEE" shall be at least 7 mm; 3. The height of other symbols shall be at least 5 mm.

Only markings in English Language present on the sample tested were checked and validated during this examination.

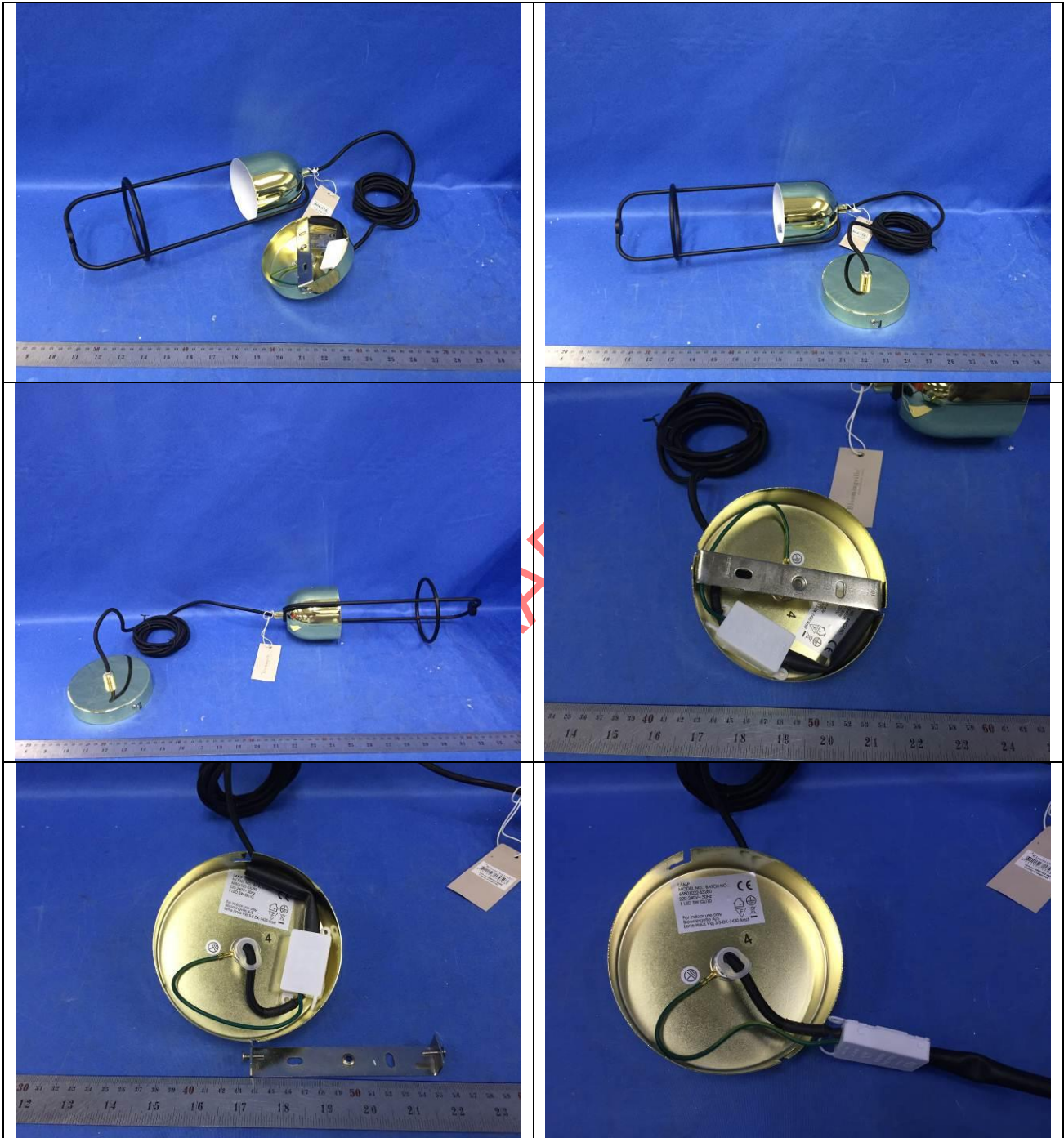
The text required by the standard should be translated into the official language of the country where the appliance will be sold.



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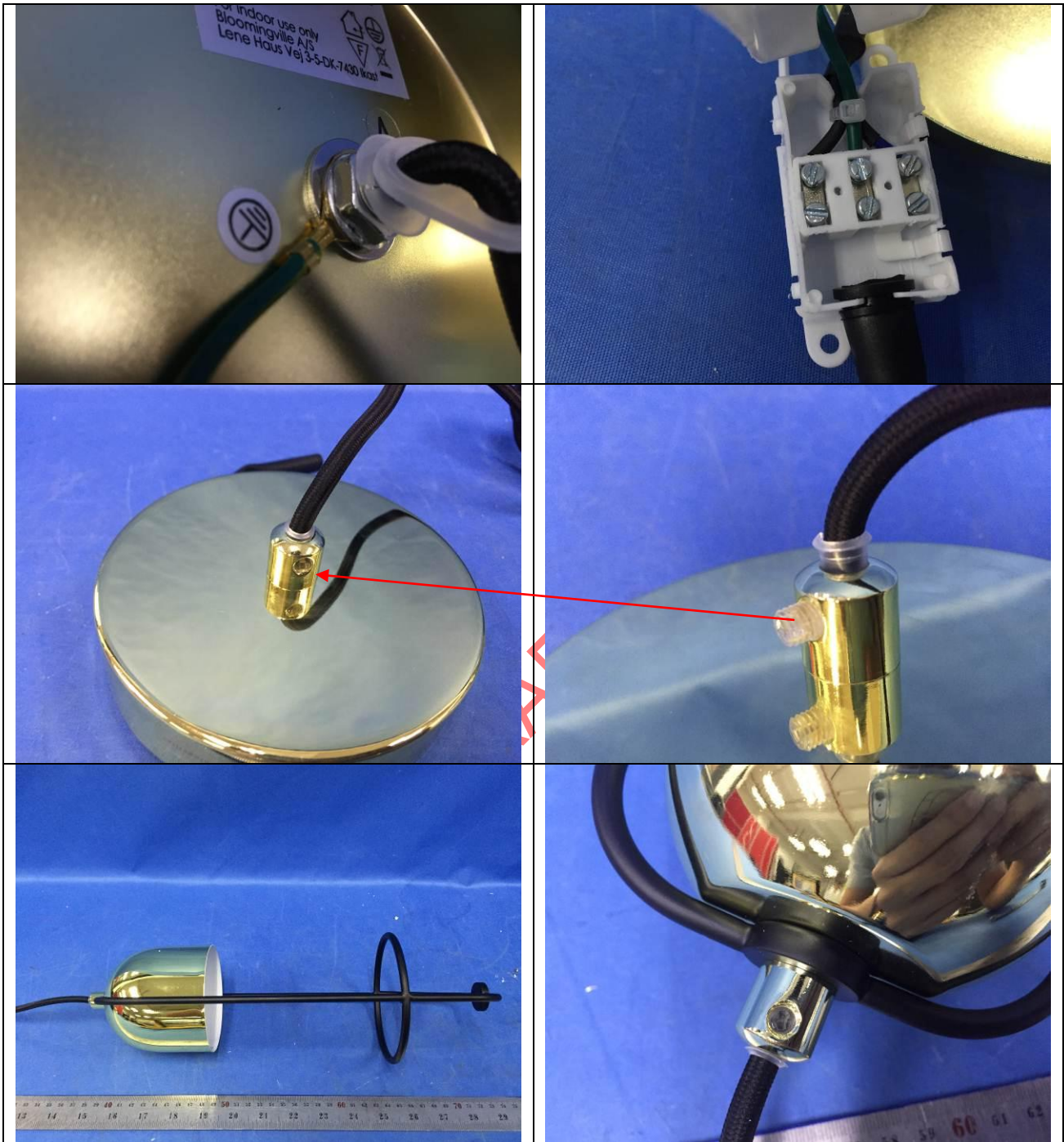
PICTURES OF THE SAMPLE TESTED:





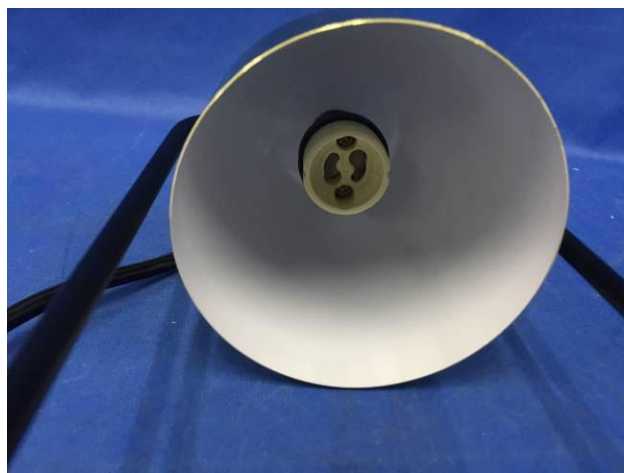
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这个照片请拍清楚，手机打横拍照，套管拉出来



None



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DESCRIPTION	
Trademark:	NA
Type of appliance:	Fixed luminaire
Type / model:	68801022
Color of enclosure:	See picture on page 1
Rated Voltage (V):	220-240 V
Nature of supply:	~
Rated power (W)	Max. 5 W LED bulb
Class of protection against electrical shock:	Class I
Degree of protection against moisture:	IP20
CE marking:	Present
F marking:	Suitable for direct mounting on normally flammable surfaces
Type of switch:	NA
Type of fixation (X, Y, M, Z):	NA
Marking on knobs:	NA
Supply connection:	Terminal block
Other information about appliance:	Type of lampholder:GU10; Type of lighting source: LED bulb
Accessory provided with the luminaire:	NA

Possible test case verdicts:	
- Test object does meet the requirement	P (Pass)
- Test case does not apply to the test object	NA (Not applicable)
- Test object does not meet the requirement	F (Fail)
- Test object does not demand	ND (Not Demanded)
General remarks:	
“(See remark #)” refers to a remark appended to the report.	
Throughout this report a comma is used as the decimal separator.	
The test results presented in this report relate only to the object tested.	
Revision history: (If applicable)	



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EN 60598-1 and EN 60598-2-1

Section	Requirement Test	Result – Value – Remark	Verdict
0	COMPONENTS OF LUMINAIRES		P
	Components comply with the requirements of the relevant standards (see page 12/14)		P
2	CLASSIFICATION		P
	. Compliance of the classification		P
3	MARKING		P
	. Marking on the luminaires		P
	. Other requirements		P
4	CONSTRUCTION		P
4.2	- Replaceable components		P
4.3	- Wire ways		P
4.4	- Lamp holders		P
4.5	- Starter holders		NA
4.6	- Terminal blocks		NA
4.7	- Terminals and supply connections		P
4.8	- Switch		NA
4.9	- Insulating linings and sleeves		P
4.10	- Double and reinforced insulation		P
4.11	- Electrical connections and current-carrying parts		P
4.12	-Screws and connections (mechanical), glands		P
4.13	- Mechanical strength		P
4.14	- Suspensions, fixings and means of adjusting		P
4.15	- Flammable materials		P
4.16	- Luminaires for mounting on normally flammable surfaces		P
4.17	- Drain holes		NA
4.18	- Resistance to corrosion		NA
4.19	- Igniters compatible with ballast		NA
4.20	- Rough service luminaires		NA
	- Vibrations requirements		NA
4.21	- Protective shield (tungsten halogen lamps)		NA
4.22	- Attachments to lamps		NA
4.23	- Semi- luminaires		NA
4.24	- Photobiological hazards		NA
	- No excessive UV radiation		NA
	- Retinal blue light hazard		NA
4.25	- Mechanical hazard		P
4.26	- Short-circuit protection		NA
4.27	- Terminal blocks with integrated screwless earthing contact		NA
4.28	- Fixing of thermal sensing control		NA
4.29	- Luminaires with non-replaceable light source		NA
4.30	- Luminaires with non-user replaceable light		NA



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EN 60598-1 and EN 60598-2-1

Section	Requirement Test	Result – Value – Remark	Verdict
	source		
4.31	- Insulation between circuits		NA
	- SELV circuits		NA
	- FELV circuits		NA
	- Other circuits		NA
4.32	Overvoltage protective devices		NA

11	CREEPAGE DISTANCES AND CLEARANCES		P
	Minimum distances (mm)		P
	Basic insulation for SELV	1,2 - 0,2	Pass the electrical strength test of table 10.2 (500V) NA
	Basic insulation	2,5 - 1,5	P
	Supplementary insulation	2,5 - 1,5	P
	Reinforced insulation	5,0 - 3,0	P
7	PROVISION FOR EARTHING		P
	. Earthing connections of low resistance		P
	- Test: >10A, <12V – Result: R<0,5Ω		P
	. Other requirements		P
14	SCREW TERMINALS		P
	. Compliance with the requirements of relevant standards	Approved terminal block	P
	. Compliance with the requirements of this section		NA
15	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		P
	. Compliance with the requirements of relevant standards	Approved lampholder	P
	. Compliance with the requirements of this section		NA
5	EXTERNAL AND INTERNAL WIRING		P
5.2	. Supply connection and other external wiring		P
5.3	. Internal wiring		P
8	PROTECTION AGAINST ELECTRIC SHOCK		P
	. Live parts not accessible		P
	. Other requirements		P
12	ENDURANCE TEST AND THERMAL TEST		P
12.3	- Endurance test		P
	. ta = 35°C [x] - ta = 25°C []		P
	. U = 1,05 U to Pn [] - P = 1,05 Pn [] - U = 1,1 Un [X]		P
	. 10 cycles [X] - 7 cycles []		P
	. Results		P
12.4	- Thermal test (normal operation)		P
	. ta = 25°C		P
	. P = 1,05 Pn [] - U = 1,0 Un puis 1,06 Un [] - U = 1,06 Un [X]		P



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EN 60598-1 and EN 60598-2-1

Section	Requirement Test	Result – Value – Remark	Verdict
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. Results (below)			P
PARTS	NA	Maximum temperature specified (°C+5°C)	Maximum temperature measured (°C)
. Cap of lamp	x		
. Ballast winding:	x		
- tw 130	x		
- tw	x		
. Transformer winding:	x		
- Class	x		
. Case:	x		
- Of capacitor	x		
- Of starting device	x		
- Of ballast	x		
- Of LED driver	x		
. Insulation of wiring not stressed (mechanical stress):			
- PVC (external, test piece)		90	< 30
- PVC (internal)		90	48
- PVC with sleeve	x		
- Silicone [] -glassfibre []	x		
-FEP	x		
. Insulation of wiring stressed (mechanical stress):			
- PVC		75	30
- Silicone [] -glassfibre []	x		
. Heat-resisting sleeves	x		
. Contacts of ceramic lampholders		250	66
. Insulating material	x		
- Lampholder cover	x		
- Of lampholder	x		
- Of starter holder	x		
. Switches	x		
. Insulating materials retaining current-carrying parts in position (Closed-end connector)	x		
Insulating materials retaining current-carrying parts in position (Terminal block)		85	< 30
. Insulating materials providing protection against electric shock	x		
. Mounting surface		90	< 30
. Means of adjustment [x] metal part [] non-metal part	x		
. Surrounding space [x] metal part [] non-metal part	x		
. Objects lighted (d = 0,1 m)		90	< 30
. Test recess	x		
. Track	x		
. Mains socket-outlet-mounted-luminaire and plug-ballast-transformer:	x		

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EN 60598-1 and EN 60598-2-1

Section	Requirement Test	Result – Value – Remark	Verdict
	- Case intended to be gripped by hand	x	
	- Plug-socket interface	x	
	- Other parts	x	
	. Wood	x	
	. Other requirements	x	
		x	
(1) No limit is specified, but these materials must satisfy the tests of section 13			

12.5	- Thermal test (abnormal operation)		NA
	. ta = 25°C		NA
	. P = 1,05 Pn [] - U = 1,1 Un [] -U = 1,06 Un []		NA
	. Abnormal circuit condition applied:		NA
	- Short-circuit of starter contacts []		NA
	- Overturning []		NA
	- Unfavorable adjusting to the lighted surface []		NA
	- Secondary circuit short-circuited []		NA
	- Other condition [] :		NA
	. Results (below)		NA

PARTS	NA	Maximum temperature specified (°C+5°C)	Maximum temperature measured (°C)
. Ballast winding:	x		
- tw 130	x		
- tw	x		
. Transformer winding:	x		
- Class	x		
. Case of LED driver	x		
. Mounting surface [] -Lighted surface []	x		
. Test recess	x		
. Track	x		
. Mains socket-outlet-mounted-luminaires and plug-ballast/	x		
Transformer case parts intended to be gripped by hand	x		

12.6	- Thermal test (failed lamp control gear conditions)		NA
	. ta = 25°C		NA
12.6.1	- Ballast/transformer without thermal cut-outs:		NA
	. Abnormal condition applied:		NA
	- Lamp not start []		NA
	- Other condition [] :		NA
	. Results (below):		NA
	- T° of mounting surface 180°C for T° winding = 350°C		NA



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EN 60598-1 and EN 60598-2-1

Section	Requirement Test	Result – Value – Remark	Verdict
	Supply voltage	Temperatures (°C)	
		Of ballast winding	Of mounting surface
	0,9 Un	--	--
	1,0 Un	--	--
	1,1 Un	--	--
12.6.2	- Ballast/transformer with thermal cut-outs:		NA
	. Abnormal condition applied:		NA
	- Lamp not start []		NA
	- Other condition [] :		NA
	. Results:		NA
	- T° mounting surface 135°C (110°C)		NA
12.7	Thermal test (Failed lamp control gear in plastic luminaires)		NA
9	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
9.2	- Tests for ingress,	IP20	P
	. Of solid objects IP3X [] - 4X []	IP20	P
	. Of dust IP5X [] - 6X []		NA
	. Of moisture IPX1 [] - X3 [] - X4 [] - X5 [] - X6 [] - X7 [] - X8 []		NA
9.3	- Humidity test	48hrs, RH 93%, 29°C	P
10	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
10.2	Insulation	Insulation resistance	Electric strength
	Basic	≥ 1 MΩ [] ≥ 2 MΩ [X]	500 V [] 1480V [X]
	Reinforced	≥ 4 MΩ [X]	2960 V [X]
	Supplementary	≥ 2 MΩ [X]	1480 V [X]
	. Results		P
	- Parts stressed by the pulse voltage		P
10.3	- touch current [0.7 mA (peak)]		NA
	- Protective conductor current [3.5 mA (r.m.s.)]	0,04 mA	P
13	RESISTANCE TO HEAT, FIRE AND TRACKING		P
13.2	- Resistance to heat		P
	. Ball pressure test	Approval components	P
13.3	- Resistance to flame and ignition		P
	. Needle-flame test	Approval components	P
	. Glow-wire test 650°C	Approval components	P
13.4	- Resistance to tracking		NA
	REQUIREMENTS STANDARD EN 60598-2-1		P
	REQUIREMENTS STANDARD EN 62493		P



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EN 60598-1 and EN 60598-2-1

Section	Requirement Test	Result – Value – Remark	Verdict
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Components list:

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity	1	2	3	R
Terminal block	MPM Moulages Plastiques du Midi	BMA 2315	250 V; 10 A; T100	VDE	X			
Earth wire	Guangdong Yongrui Cable Technology Co., Ltd	H03VH7-H	0,75 mm ²	VDE	X			
External wire	Top Resources Co., Ltd.	H03VV-F	2 x 0,75 mm ²	VDE	X			
Alt.	Toong Yean Plastic Ind. Co., Ltd	H03VV-F	2 x 0,75 mm ²	VDE	X			
GU10 lampholder	Dongguan Kaixiang Electric Co., Ltd.	KX-B01	250 V; 2 A; T250	VDE	X			
Alt.	Jiangmen Jiaqixing House Appliance Industry Co., Ltd.	JQX-005	250 V; 2 A; T250	VDE	X			
Heat-shrinkable tube	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR-H	600 V; 125 °C; E203950	Tested with appliance			X	

- (1) This component bears the stamp of a European conformity mark or has been granted a certificate of conformity.
- (2) Applicable specific rules do not exist for this component; consequently, it has been tested according to the requirements of appropriate clauses of applied documents and is satisfactory.
- (3) This component has been tested according to the requirements of appropriate clauses of applied documents and is satisfactory.



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Annex 1: Instruction manual

INSTRUCTION MANUAL

MODEL-BATCH NO : 68801022-63280

BEFORE INSTALLATION

Please note that these instructions are provided for your safety. It is important that they are read carefully and completely before initiating the installation of the lamp. In case of a doubt, we would recommend that a qualified electrician, install all direct-wired fixtures.

Do not use the lamp in wet and high humidity areas.

If the flexible cable or cord of this luminaire gets damaged, please contact a professional for replacement.

SAFETY AND ASSEMBLY INSTRUCTIONS

Take out the lamp from the packaging.

Gently tighten the recommended bulb to the socket.

Place the product on a flat surface and plug the lamp to a power source.

ELECTRICAL FEATURES

220-240V~ , 50Hz, LED 5W, GU10

CLEANING

This lamp has no serviceable part. We recommend cleaning the lamp at regular intervals. Disconnect the lamp from electrical source before cleaning with a soft dry cloth.

WEEE WARNING

When the time comes to eliminate this product, please consider the environmental impact and take it to a recognized recycling facility instead of disposing it with general household waste. You may seek more information from service center.



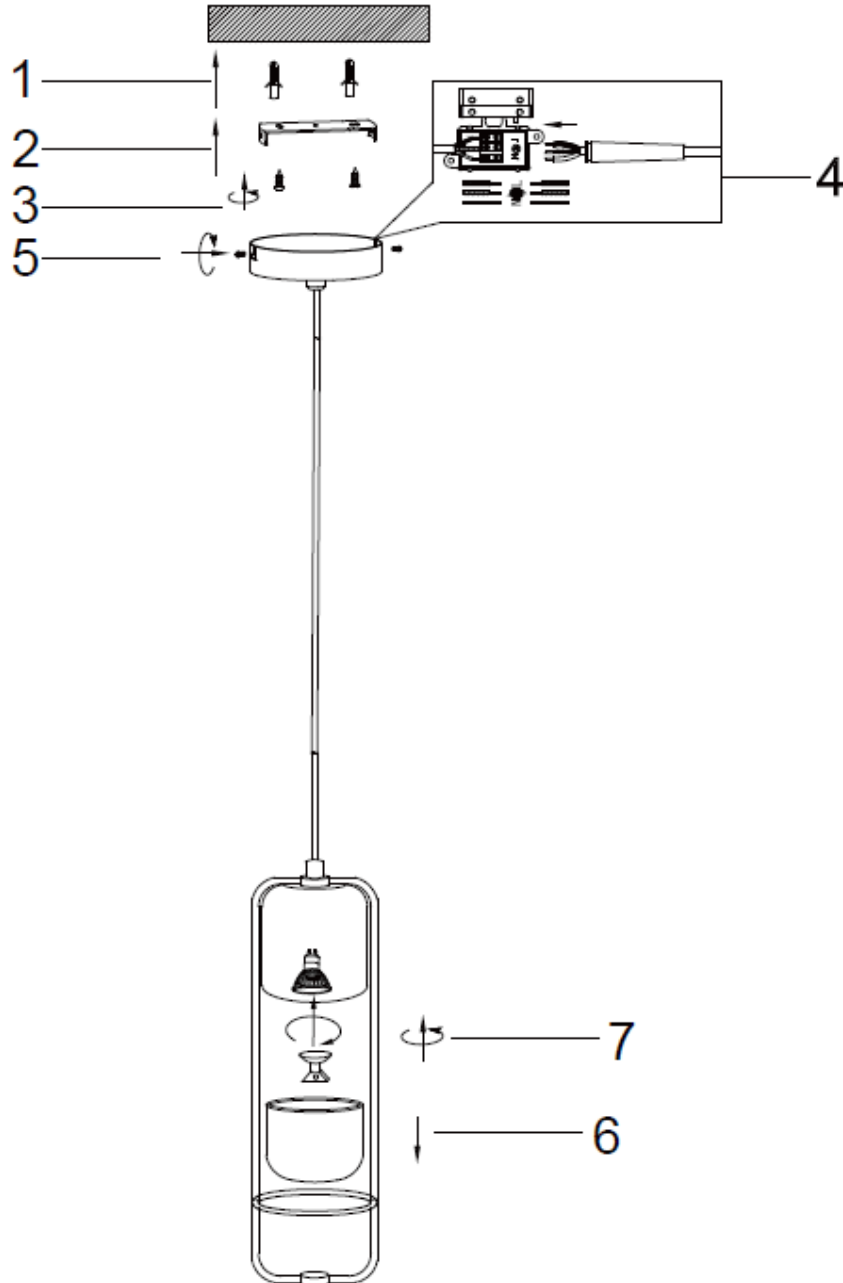
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ASSEMBLY MANUAL



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Only markings in English Language present on the sample tested were checked and validated during this examination.

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