

LVD TEST REPORT



Page 1 of 31

Report No **NSL-151113010105-R**

Applicant **Suzhou Precision Products Co., Ltd**
No 1658, Shanan Road, Shaxi Town, Taicang City, Jiangsu Province, China, 215417

Product **Lampholder**
HG-LampHolder

Specification **EN 60598-2-1: 1989**
EN 60598-1: 2008 +A11: 2009

Results **Complies with the requirements of the above specification**

Authorized by


Robert Song



Issue Date

20 November, 2013

Laboratory

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All applicable tests according to the above specified standard, See clauses tested of the test report. Test results are valid only for the tested samples. This report shall not be reproduced, except in full, without the written approval of the NEW-STANDARD laboratory.

Form No.: RF-59821-A

LIST OF CONTENTS

| NO. | CONTENTS | PAGES (PAGE NO.) |
|-----|---------------------------------------|------------------|
| 1 | COVER PAGE | 1 (1) |
| 2 | LIST OF CONTENTS | 1 (2) |
| 3 | GENERAL INFORMATION | 3 (3-5) |
| 4 | SUMMARY OF TESTING | 2 (6-7) |
| 5 | MAIN PART OF REPORT | 21 (8-28) |
| 6 | ANNEX | -- |
| 6-1 | ANNEX 1 (LIST OF CRITICAL COMPONENTS) | 1 (29) |
| 6-2 | ANNEX 2 (TABLES OF TEST RESULTS) | 1 (30) |
| 6-3 | ANNEX 3 (PHOTOGRAPHS) | 1 (31) |

TEST REPORT

Luminaires - Part 2: Particular requirements - Section 1: Fixed general purpose luminaires

Report:

Report No. : NSL-151113010105-R

Tested by

(Printed name and signature) : Kawe Zhou



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Approved by

(Printed name and signature) : Robert Song



.....

Date of issue : 20 November, 2013

Total number of pages : 31

Client:

Applicant name : Suzhou Precision Products Co., Ltd

 Address : No 1658, Shanan Road, Shaxi Town, Taicang City, Jiangsu Province, China,
215417

Manufacturer name : Same as applicant

Address : --

Factory name : Same as applicant

Address : --

Testing Laboratory:

Name : SUZHOU NEW-STANDARD LABORATORY CO LTD

Address : NO. 199, JINFENG ROAD, SUZHOU, 215011 P. R. CHINA

Testing location : Same as above

Test specification:

Standard : EN 60598-2-1: 1989

EN 60598-1: 2008 +A11: 2009

Non-standard test method : --

Test Item:

Product/Description : Lampholder

Trade Mark : --

Model/Type reference : HG-LampHolder

Ratings : AC 50-300 V, 50/60 Hz, 1500 W

Report No.: NSL-151113010105-R

Copy of marking plate

Lampholder
Model: HG-LampHolder
Rating: AC 50-300V 50/60Hz 1500W



Suzhou Precision Products Co., Ltd

Report No.: NSL-151113010105-R

Test item particulars:

Classification of installation and use : Fixed luminaire
 Supply Connection : Power plug
 Class of equipment : Class II
 IP number : IP20
 Mass of lamp (kg) : 0.7

Possible test case verdicts:

- test case does not apply to the test object : N (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 : 01 November, 2013
 Date(s) of performance of tests : 01 November, 2013 to 20 November, 2013

Environmental condition:

Ambient temperature (°C) : 22-25
 Relative humidity (%) : 35-45
 Atmospheric pressure (kPa) : 102.1-102.9

General remarks:

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

"(see appended table)" refers to a table in the Test Report.

Throughout this report a point is used as the decimal separator.

When determining of test conclusion, measurement uncertainty of test has been considered.

General product information

The product is a Lampholder for indoor use, through power cord with plug connection to mains. Final installation based manufacturer instructions.

SUMMARY OF TESTING

| CLAUSE | TEST(S) | RESULT |
|---|--|--------|
| For EN 60598-2-1 and 60598-1 | | |
| 3.4 | Test of marking | P |
| 4.4.4 | Lampholder pressure test | P |
| 4.4.5 | Voltage across lampholders | N |
| 4.11.6 | Electro-mechanical contact system | N |
| 4.12.1, 4.12.5 | Screws and connections (mechanical) and glands testing | P |
| 4.13.1, 4.13.4, 4.13.6, 4.21.4 | Mechanical strength tests | P |
| 4.14.1, 4.14.2, 4.14.3 | Adjusting devices testing | N |
| 4.9.2, 4.18.1 | Insulating linings and sleeves tests / Resistance to corrosion | P |
| 4.18.2, Annex F | Stress corrosion | N |
| 4.20 | Rough service luminaires | N |
| 4.22 | Attachment to lamps | N |
| 4.24, Annex P | Protective measures against UV radiation | N |
| 4.26 | Short circuit protection test | N |
| 5.2.10.1 | Pull and torque tests on cord anchorage | P |
| 5.3 | Internal wiring dimensions | P |
| 7.2.3 | Earth continuity test | N |
| 8.2.5, 8.2.7 | Protection against electric shock tests / Capacitor discharge | P |
| 9.2.0 | Solid object proof luminaire testing | P |
| 9.2.1, 9.2.2 | Dust proof luminaire tests | N |
| 9.2.3- 9.2.9 | Water proof luminaires testing | N |
| 9.3.1 | Humidity tests | P |
| 10.2.1 | Insulation resistance tests | P |
| 10.2.2 | Electric strength tests | P |
| 10.3.1 | Leakage current testing | P |
| 11.2.1 | Creepage distances and clearances measurements | P |
| 12.3.1 | Endurance tests | P |
| 12.4.1 | Thermal tests | P |

Report No.: NSL-151113010105-R

| CLAUSE | TEST(S) | RESULT |
|--------------------|---|--------|
| 12.5.1, Annex C | Abnormal operation testing | N |
| 12.7.2 | Test for luminaires with temperature sensing controls internal/external to the ballast or transformer | N |
| 13.2.1 | Resistance to heat test | P |
| 13.3.2 | Resistance to ignition testing | P |
| 13.4.1 | Resistance to tracking test | N |
| 14 | Screw terminals | N |
| 15 | Screwless terminals | N |
| Remarks | | |

| EN 60598-2-1 | | | |
|---------------------------|---|---|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.2 (0) 错误!未找到引用源。 | GENERAL TEST REQUIREMENTS | | P |
| 1.2 (0.1) | Information for luminaire design considered | Standard <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | -- |
| 1.2 (0.3) | More sections applicable.....: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | -- |

| | | | |
|----------------|---|---|----------|
| 1.4 (2) | CLASSIFICATION | | P |
| 1.4 (2.2) | Type of protection (Class 0 excluded).....: | Class II | -- |
| 1.4 (2.3) | Degree of protection (Requirement: Ordinary).....: | IP 20 | -- |
| 1.4 (2.4) | Luminaire suitable for direct mounting on normally flammable surfaces | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | -- |
| | Luminaire not suitable for direct mounting on normally flammable surfaces | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | -- |
| 1.4 (2.5) | Luminaire for normal use | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | -- |
| | Luminaire for rough service.....: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | -- |

| | | | |
|----------------|---------------------------------------|------------------------------|----------|
| 1.5 (3) | MARKING | | P |
| 1.5 (3.2) | Mandatory markings | | P |
| | Position of the marking | Enclosure | P |
| | Format of symbols/text | (See copy of marking plate) | P |
| 1.5 (3.3) | Additional information | | P |
| | Language of instructions | English | P |
| 1.5 (3.3.1) | Combination luminaires | Fixed luminaire | N |
| 1.5 (3.3.2) | Nominal frequency in Hz | 50/60 Hz | P |
| 1.5 (3.3.3) | Operating temperature | | N |
| 1.5 (3.3.4) | Symbol or warning notice | | N |
| 1.5 (3.3.5) | Wiring diagram | | N |
| 1.5 (3.3.6) | Special conditions | | N |
| 1.5 (3.3.7) | Metal halide lamp luminaire – warning | | N |
| 1.5 (3.3.8) | Limitation for semi-luminaires | Provided in the instructions | P |
| 1.5 (3.3.9) | Power factor and supply current | | N |
| 1.5 (3.3.10) | Suitability for use indoors | 25 °C | P |
| 1.5 (3.3.11) | Luminaires with remote control | | P |
| 1.5 (3.3.12) | Clip-mounted luminaire – warning | | P |
| 1.5 | Specifications of protective shields | | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-----------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| (3.3.13) | | | |
| 1.5 (3.3.14) | Symbol for nature of supply | AC | P |
| 1.5 (3.3.15) | Rated current of socket outlet | | N |
| 1.5 (3.3.16) | Rough service luminaire | | N |
| 1.5 (3.3.17) | Mounting instruction for type Y, type Z and some type X attachments | Type Y | P |
| 1.5 (3.3.18) | Non-ordinary luminaires with PVC cable | | N |
| 1.5 (3.3.19) | Protective conductor current in instruction if applicable | | N |
| 1.5 (3.3.20) | Provided with information if not intended to be mounted within arms reach | | N |
| 1.5 (3.4) | Test with water | | P |
| | Test with hexane | | P |
| | Legible after test | | P |
| | Label attached | | P |

| | | | |
|-------------|--|-----|---|
| 1.6 (4) | CONSTRUCTION | | P |
| 1.6 (4.2) | Components replaceable without difficulty | | N |
| 1.6 (4.3) | Wireways smooth and free from sharp edges | | P |
| 1.6 (4.4) | Lampholders | E40 | P |
| 1.6 (4.4.1) | Integral lampholder | | P |
| 1.6 (4.4.2) | Wiring connection | | P |
| 1.6 (4.4.3) | Lampholder for end to end mounting | | P |
| 1.6 (4.4.4) | Positioning | | P |
| | - pressure test (N) | -- | N |
| | After test the lampholder comply with relevant standard sheets and show no damage | | N |
| | After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation | | N |
| | - bending test (Nm)..... | 4 | P |
| | After test the lampholder have not moved from its position and show no permanent deformation | | P |
| 1.6 (4.4.5) | Peak pulse voltage | | N |
| 1.6 (4.4.6) | Centre contact | | N |
| 1.6 (4.4.7) | Parts in rough service luminaires resistant to tracking | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|---------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.6 (4.4.8) | Lamp connectors | | N |
| 1.6 (4.4.9) | Caps and bases correctly used | | N |
| 1.6 (4.5) | Starter holders | | N |
| | Starter holder in luminaires other than class II | | N |
| | Starter holder class II construction | | N |
| 1.6 (4.6) | Terminal blocks | | N |
| | Tails | | N |
| | Unsecured blocks | | N |
| 1.6 (4.7) | Terminals and supply connections | | P |
| 1.6 (4.7.1) | Contact to metal parts | | P |
| 1.6 (4.7.2) | Test 8 mm live conductor | | P |
| | Test 8 mm earth conductor | | P |
| 1.6 (4.7.3) | Terminals for supply conductors | | P |
| 1.6 (4.7.3.1) | Welded connections: | | N |
| | - stranded or solid conductor | | N |
| | - spot welding | | N |
| | - welding between wires | | N |
| | - Type Z attachment | | N |
| | - mechanical test according to 15.8.2 | | N |
| | - electrical test according to 15.9 | | N |
| | - heat test according to 15.9.2.3 and 15.9.2.4 | | N |
| 1.6 (4.7.4) | Terminals other than supply connection | | N |
| 1.6 (4.7.5) | Heat-resistant wiring/sleeves | | N |
| 1.6 (4.7.6) | Multi-pole plug | | N |
| 1.6 (4.8) | Switches: | | N |
| | - adequate rating | | N |
| | - adequate fixing | | N |
| | - polarized supply | | N |
| | - compliance with 61058-1 for electronic switches | | N |
| 1.6 (4.9) | Insulating lining and sleeves | | N |
| 1.6 (4.9.1) | Retainment | | N |
| | Method of fixing : -- | | N |
| 1.6 (4.9.2) | Insulated linings and sleeves | | N |
| | Resistant to a temperature > 20 °C to the wire temperature or | | N |
| | a) & c) Insulation resistance and electric strength | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|--------------|--|--------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | b) Ageing test. Temperature (°C) | | N |
| 1.6 (4.10) | Insulation of Class II luminaires | | P |
| 1.6 (4.10.1) | No contact, mounting surface – accessible metal parts – wiring of basic insulation | | P |
| | Safe installation fixed luminaires | | P |
| | Capacitors and switches | | N |
| | Interference suppression capacitors according to IEC 60384-14 | | N |
| 1.6 (4.10.2) | Assembly gaps: | | N |
| | - not coincidental | | N |
| | - no straight access with test probe | | N |
| 1.6 (4.10.3) | Retention of insulation: | | P |
| | - fixed | | P |
| | - unable to be replaced; luminaire inoperative | | P |
| | - sleeves retained in position | | P |
| | - lining in lampholder | | P |
| 1.6 (4.11) | Electrical connections | | P |
| 1.6 (4.11.1) | Contact pressure | | P |
| 1.6 (4.11.2) | Screws: | | P |
| | - self-tapping screws | | P |
| | - thread-cutting screws | | N |
| 1.6 (4.11.3) | Screw locking: | | N |
| | - spring washer | | N |
| | - rivets | | N |
| 1.6 (4.11.4) | Material of current-carrying parts | | P |
| 1.6 (4.11.5) | No contact to wood or mounting surface | | P |
| 1.6 (4.11.6) | Electro-mechanical contact systems | | N |
| 1.6 (4.12) | Mechanical connections and glands | | P |
| 1.6 (4.12.1) | Screws not made of soft metal | | P |
| | Screws of insulating material | | P |
| | Torque test: torque (Nm); part | 0.5; for enclosure | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-----------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.6 (4.12.2) | Screws with diameter < 3 mm screwed into metal | | N |
| 1.6 (4.12.4) | Locked connections: | | N |
| | - fixed arms; torque (Nm) | -- | N |
| | - lampholder; torque (Nm) | -- | N |
| | - push-button switches; torque 0,8 Nm..... | -- | N |
| 1.6 (4.12.5) | Screwed glands; force (Nm)..... | -- | N |
| 1.6 (4.13) | Mechanical strength | | P |
| 1.6 (4.13.1) | Impact tests: | | P |
| | - fragile parts; energy (Nm) | 0.2 | P |
| | - other parts; energy (Nm)..... | 0.35 | P |
| | 1) live parts | | P |
| | 2) linings | | P |
| | 3) protection | | P |
| | 4) covers | | P |
| 1.6 (4.13.3) | Straight test finger | | P |
| 1.6 (4.13.4) | Rough service luminaires | | N |
| | - IP54 or higher | | N |
| | a) fixed | | N |
| | b) hand-held | | N |
| | c) delivered with a stand | | N |
| | d) for temporary installations and suitable for mounting on a stand | | N |
| 1.6 (4.13.6) | Tumbling barrel | | N |
| 1.6 (4.14) | Suspensions and adjusting devices | | N |
| 1.6 (4.14.1) | Mechanical load: | | N |
| | A) four times the weight | | N |
| | B) torque 2,5 Nm | | N |
| | C) bracket arm; bending moment (Nm) | -- | N |
| | D) load track-mounted luminaires | | N |
| | E) clip-mounted luminaires, glass-shelve. Thickness (mm) | -- | N |
| | Metal rod. diameter (mm)..... | -- | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-----------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Fixed luminaire or independent control gear without fixing devices | | N |
| 1.6 (4.14.2) | Load to flexible cables | | N |
| | Mass (kg) | -- | N |
| | Stress in conductors (N/mm ²) | -- | N |
| | Mass (kg) of semi-luminaire | -- | N |
| | Bending moment (Nm) of semi-luminaire..... | -- | N |
| 1.6 (4.14.3) | Adjusting devices: | | N |
| | - flexing test; number of cycles..... | -- | N |
| | - strands broken | | N |
| | - electric strength test afterwards | | N |
| 1.6 (4.14.4) | Telescopic tubes: cords not fixed to tube; no strain on conductors | | N |
| 1.6 (4.14.5) | Guide pulleys | | N |
| 1.6 (4.14.6) | Strain on socket-outlets | | N |
| 1.6 (4.15) | Flammable materials: | | P |
| | - glow-wire test 650 °C | | P |
| | - spacing \geq 30 mm | | N |
| | - screen withstanding test of 13.3.1 | | P |
| | - screen dimensions | | N |
| | - no fiercely burning material | | P |
| | - thermal protection | | N |
| | - electronic circuits exempted | | P |
| 1.6 (4.15.2) | Luminaires made of thermoplastic material with lamp control gear | | N |
| | a) construction | | N |
| | b) temperature sensing control | | N |
| | c) surface temperature | | N |
| 1.6 (4.16) | Luminaires for mounting on normally flammable surfaces | | N |
| | No lamp control gear | | N |
| 1.6 (4.16.1) | Lamp control gear spacing: | | N |
| | - spacing 35 mm | | N |
| | - spacing 10 mm | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-----------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.6 (4.16.2) | Thermal protection: | | N |
| | - in lamp control gear | | N |
| | - external | | N |
| | - fixed position | | N |
| | - temperature marked lamp control gear | | N |
| 1.6 (4.16.3) | Design to satisfy the test of 12.6 | | N |
| 1.6 (4.17) | Drain holes | | N |
| | Clearance at least 5 mm | | N |
| 1.6 (4.18) | Resistance to corrosion: | | N |
| 1.6 (4.18.1) | - rust-resistance | | N |
| 1.6 (4.18.2) | - season cracking in copper | | N |
| 1.6 (4.18.3) | - corrosion of aluminium | | N |
| 1.6 (4.19) | Igniters compatible with ballast | | N |
| 1.6 (4.20) | Rough service vibration | | N |
| 1.6 (4.21) | Protective shield: | | N |
| 1.6 (4.21.1) | Shield fitted | | N |
| | Shield of glass if tungsten halogen lamps | | N |
| 1.6 (4.21.2) | Particles from a shattering lamp not impair safety | | N |
| 1.6 (4.21.3) | No direct path | | N |
| 1.6 (4.21.4) | Impact test on shield | | N |
| | Glow-wire test on lamp compartment | | N |
| 1.6 (4.22) | Attachments to lamps | | N |
| 1.6 (4.23) | Semi-luminaires comply Class II | | P |
| 1.6 (4.24) | UV radiation for tungsten halogen lamps and metal halide lamps (Annex P) | | N |
| 1.6 (4.25) | No sharp point or edges | | P |
| 1.6 (4.26) | Short-circuit protection: | | N |
| 1.6 (4.26.1) | Uninsulated accessible SELV parts | | N |
| 1.6 (4.26.2) | Short-circuit test | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-----------------|-----------------------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.6 (4.26.3) | Test chain according to Figure 29 | | N |

| | | | |
|----------|--|---|---|
| 1.7 (11) | CREEPAGE DISTANCES AND CLEARANCES | | P |
| | Working voltage (V) | 50-300 | P |
| | Voltage form | <input checked="" type="checkbox"/> Sinusoidal <input type="checkbox"/> Non-sinusoidal | P |
| | PTI | <input checked="" type="checkbox"/> < 600 <input type="checkbox"/> > 600 | P |
| | Impulse withstand category (Normal category II) (Category III Annex U) | <input checked="" type="checkbox"/> Category II <input type="checkbox"/> Category III | P |
| | Rated pulse voltage (kV) | -- | P |
| | (1) Current-carrying parts of different polarity: cr (mm); cl (mm) | 5.0; 5.0 | P |
| | (2) Current-carrying parts and accessible parts: cr (mm); cl (mm) | 8.0; 8.0 | P |
| | (3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm) | -- | N |
| | (4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm) | -- | N |
| | (5) Not used | -- | N |
| | (6) Current-carrying parts and supporting surface: cr (mm); cl (mm) | 8.0; 8.0 | P |

| | | | |
|------------------------|---|--|---|
| 1.8 (7) | PROVISION FOR EARTHING | | N |
| 1.8 (7.2.1 + 7.2.3) | Accessible metal parts | | N |
| | Metal parts in contact with supporting surface | | N |
| | Resistance < 0,5 Ω | | N |
| | Self-tapping screws used | | N |
| | Thread-forming screws | | N |
| | Thread-forming screw used in a groove | | N |
| | Earth makes contact first | | N |
| 1.8 (7.2.2 + 7.2.3) | Earth continuity in joints etc. | | N |
| 1.8 (7.2.4) | Locking of clamping means | | N |
| | Compliance with 4.7.3 | | N |
| | Terminal blocks with integrated screwless earthing contacts tested according Annex V | | N |
| 1.8 (7.2.5) | Earth terminal integral part of connector socket | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|--------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.8 (7.2.6) | Earth terminal adjacent to mains terminals | | N |
| 1.8 (7.2.7) | Electrolytic corrosion of the earth terminal | | N |
| 1.8 (7.2.8) | Material of earth terminal | | N |
| | Contact surface bare metal | | N |
| 1.8 (7.2.10) | Class II luminaire for looping-in | | N |
| | Double or reinforced insulation to functional earth | | N |
| 1.8 (7.2.11) | Earthing core coloured green-yellow | | N |
| | Length of earth conductor | | N |
| 1.9 (14) | SCREW TERMINALS | | N |
| | Separately approved; component list | | N |
| | Part of the luminaire | | N |
| 1.9 (15) | SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS | | N |
| | Separately approved; component list | | N |
| | Part of the luminaire | | N |
| 1.10 (5) | EXTERNAL AND INTERNAL WIRING | | P |
| 1.10 (5.2) | Supply connection and external wiring | | P |
| 1.10 (5.2.1) | Means of connection.....: Power cord with plug | | P |
| 1.10 (5.2.2) | Type of cable.....: H03VV-F | | P |
| | Nominal cross-sectional area (mm ²): 2 × 0.75 | | P |
| | Cables equal to HD21 or HD22 | | P |
| 1.10 (5.2.3) | Type of attachment, X, Y or Z | Type Y | P |
| 1.10 (5.2.5) | Type Z not connected to screws | | N |
| 1.10 (5.2.6) | Cable entries: | | P |
| | - suitable for introduction | | P |
| | - adequate degree of protection | | P |
| 1.10 (5.2.7) | Cable entries through rigid material have rounded edges | | P |
| 1.10 (5.2.8) | Insulating bushings: | | P |
| | - suitably fixed | | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|--------------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - material in bushings | | P |
| | - material not likely to deteriorate | | P |
| | - tubes or guards made of insulating material | | P |
| 1.10 (5.2.9) | Locking of screwed bushings | | N |
| 1.10 (5.2.10) | Cord anchorage: | | P |
| | - covering protected from abrasion | | P |
| | - clear how to be effective | | P |
| | - no mechanical or thermal stress | | P |
| | - no tying of cables into knots etc. | | P |
| | - insulating material or lining | | P |
| 1.10 (5.2.10.1) | Cord anchorage for type X attachment: | | N |
| | a) at least one part fixed | | N |
| | b) types of cable | | N |
| | c) no damaging of the cable | | N |
| | d) whole cable can be mounted | | N |
| | e) no touching of clamping screws | | N |
| | f) metal screw not directly on cable | | N |
| | g) replacement without special tool | | N |
| | Glands not used as anchorage | | N |
| | Labyrinth type anchorages | | N |
| 1.10 (5.2.10.2) | Adequate cord anchorage for type Y and type Z attachment | Type Y | P |
| 1.10 (5.2.10.3) | Tests: | | P |
| | - impossible to push cable; unsafe | | P |
| | - pull test: 25 times; pull (N): 60 | | P |
| | - torque test: torque (Nm): 0.15 | | P |
| | - displacement ≤ 2 mm | | P |
| | - no movement of conductors | | P |
| | - no damage of cable or cord | | P |
| 1.10 (5.2.11) | External wiring passing into luminaire | | P |
| 1.10 (5.2.12) | Looping-in terminals | | N |
| 1.10 (5.2.13) | Wire ends not tinned | | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-------------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Wire ends tinned: no cold flow | | N |
| 1.10 (5.2.14) | Mains plug same protection | | P |
| | Class III luminaire plug | | N |
| 1.10 (5.2.16) | Appliance inlets (IEC 60320) | | N |
| | Appliance couplers of class II type | | N |
| 1.10 (5.2.17) | No standardized interconnecting cables properly assembled | | N |
| 1.10 (5.2.18) | Used plug in accordance with | | P |
| | - IEC 60083 | | P |
| | - other standard | | N |
| 1.10 (5.3) | Internal wiring | | P |
| 1.10 (5.3.1) | Internal wiring of suitable size and type | (See annex 1) | P |
| | Through wiring | | N |
| | - not delivered/ mounting instruction | | N |
| | - factory assembled | | N |
| | - socket outlet loaded (A): -- | | N |
| | - temperatures.....: -- | | N |
| | Green-yellow for earth only | | N |
| 1.10 (5.3.1.1) | Internal wiring connected directly to fixed wiring | | P |
| | Cross-sectional area (mm ²): (See annex 1) | | P |
| | Insulation thickness | | P |
| | Extra insulation added where necessary | | P |
| 1.10 (5.3.1.2) | Internal wiring connected to fixed wiring via internal current-limiting device | | P |
| | Adequate cross-sectional area and insulation thickness | | P |
| 1.10 (5.3.1.3) | Double or reinforced insulation for class II | | P |
| 1.10 (5.3.1.4) | Conductors without insulation | | N |
| 1.10 (5.3.1.5) | SELV current-carrying parts | | N |
| 1.10 (5.3.1.6) | Insulation thickness other than PVC or rubber | | P |
| 1.10 (5.3.2) | Sharp edges etc. | | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-----------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | No moving parts of switches etc. | | P |
| | Joints, raising/lowering devices | | P |
| | Telescopic tubes etc. | | P |
| | No twisting over 360° | | P |
| 1.10 (5.3.3) | Insulating bushings: | | P |
| | - suitable fixed | | P |
| | - material in bushings | | P |
| | - material not likely to deteriorate | | P |
| | - cables with protective sheath | | P |
| 1.10 (5.3.4) | Joints and junctions effectively insulated | | N |
| 1.10 (5.3.5) | Strain on internal wiring | | N |
| 1.10 (5.3.6) | Wire carriers | | N |
| 1.10 (5.3.7) | Wire ends not tinned | | N |
| | Wire ends tinned: no cold flow | | N |

| | | | |
|-----------------|--|--|----------|
| 1.11 (8) | PROTECTION AGAINST ELECTRIC SHOCK | | P |
| 1.11 (8.2.1) | Live parts not accessible with standard test finger | | P |
| | Basic insulated parts not used on the outer surface without appropriate protection | | P |
| | Basic insulated parts not accessible with standard test finger on portable and adjustable luminaires | | N |
| | Basic insulated parts not accessible with Ø 50 mm probe from outside, within arms reach, on wall-mounted luminaires | | P |
| | Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements | | N |
| | Basic insulation only accessible under lamp or starter replacement | | N |
| | Protection in any position | | N |
| | Double-ended tungsten filament lamp | | N |
| | Insulation lacquer not reliable | | P |
| | Double-ended high pressure discharge lamp | | N |
| | Relevant warning according to 3.2.18 fitted to the luminaire | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|-------------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.11 (8.2.2) | Portable luminaire adjusted in most unfavourable position | | N |
| 1.11 (8.2.3.a) | Class II luminaire: | | N |
| | - basic insulated metal parts not accessible during starter or lamp replacement | | N |
| | - basic insulation not accessible other than during starter or lamp replacement | | N |
| | - glass protective shields not used as supplementary insulation | | N |
| 1.11 (8.2.3.b) | BC lampholder of metal in class I luminaires shall be earthed | | N |
| 1.11 (8.2.3.c) | Class III luminaires with exposed SELV parts: | | N |
| | Ordinary luminaire: | | N |
| | - touch current.....: -- | | N |
| | - no-load voltage.....: -- | | N |
| | Other than ordinary luminaire: | | N |
| | - nominal voltage.....: -- | | N |
| 1.11 (8.2.4) | Portable luminaire: | | N |
| | - protection independent of supporting surface | | N |
| | - terminal block completely covered | | N |
| 1.11 (8.2.5) | Compliance with the standard test finger or relevant probe | | P |
| 1.11 (8.2.6) | Covers reliably secured | | P |
| 1.11 (8.2.7) | Discharging of capacitors $\geq 0,5 \mu\text{F}$ | | N |
| | Portable plug connected luminaire with capacitor | | N |
| | Other plug connected luminaire with capacitor | | N |
| | Discharge device on or within capacitor | | N |
| | Discharge device mounted separately | | N |

| | | | |
|-------------|---|--|---|
| 1.12 (12) | ENDURANCE TEST AND THERMAL TEST | | P |
| 1.12 (12.3) | Endurance test: | | P |
| | - mounting-position.....: According to instructions | | P |
| | - test temperature (°C).....: 35 | | P |
| | - total duration (h).....: 240 | | P |
| | - supply voltage: Un factor; calculated voltage (V).....: 363 | | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|--------------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - lamp used | Mercury lamp | P |
| 1.12 (12.3.2) | After endurance test: | | P |
| | - no part unserviceable | | P |
| | - luminaire not unsafe | | P |
| | - no damage to track system | | N |
| | - marking legible | | P |
| | - no cracks, deformation etc. | | P |
| 1.12 (12.4) | Thermal test (normal operation) | (See annex 2) | P |
| 1.12 (12.5) | Thermal test (abnormal operation) | | N |
| 1.12 (12.6) | Thermal test (failed lamp control gear condition): | | N |
| 1.12 (12.6.1) | Through wiring or looping-in wiring loaded by a current of (A) | -- | N |
| | - case of abnormal conditions | -- | N |
| | - electronic lamp control gear | | N |
| | - measured winding temperature (°C): at 1,1 Un | -- | N |
| | - measured mounting surface temperature (°C) at 1,1 Un: | -- | N |
| | - calculated mounting surface temperature (°C) | -- | N |
| | - track-mounted luminaires | | N |
| 1.12 (12.6.2) | Temperature sensing control | | N |
| | - case of abnormal conditions | -- | N |
| | - thermal link | | N |
| | - manual reset cut-out | | N |
| | - auto reset cut-out | | N |
| | - measured mounting surface temperature (°C) | -- | N |
| | - track-mounted luminaires | | N |
| 1.12 (12.7) | Thermal test (failed lamp control gear in plastic luminaires): | | N |
| 1.12 (12.7.1) | Luminaire without temperature sensing control | | N |
| 1.12 (12.7.1.1) | Luminaire with fluorescent lamp ≤ 70W | | N |
| | Test method 12.7.1.1 or Annex V | -- | N |
| | Test according to 12.7.1.1: | | N |
| | - case of abnormal conditions | | N |
| | - Ballast failure at supply voltage (V) | -- | N |
| | - Components retained in place after the test | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|--------------------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - Test with standard test finger after the test | | N |
| | Test according to Annex V: | | N |
| | - case of abnormal conditions | | N |
| | - measured winding temperature (°C): at 1,1 Un | -- | N |
| | - measured temperature of fixing point/exposed part (°C): at 1,1 Un | -- | N |
| | - calculated temperature of fixing point/exposed part (°C)..... | -- | N |
| | Ball-pressure test: | | N |
| | - part tested; temperature (°C)..... | -- | N |
| | - part tested; temperature (°C)..... | -- | N |
| 1.12 (12.7.1.2) | Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA | | N |
| | - case of abnormal conditions | | N |
| | - measured winding temperature (°C): at 1,1 Un | -- | N |
| | - measured temperature of fixing point/exposed part (°C): at 1,1 Un | -- | N |
| | - calculated temperature of fixing point/exposed part (°C)..... | -- | N |
| | Ball-pressure test: | | N |
| | - part tested; temperature (°C)..... | -- | N |
| | - part tested; temperature (°C)..... | -- | N |
| 1.12 (12.7.1.3) | Luminaire with short circuit proof transformers ≤ 10 VA | | N |
| | - case of abnormal conditions | | N |
| | - Components retained in place after the test | | N |
| | - Test with standard test finger after the test | | N |
| 1.12 (12.7.2) | Luminaire with temperature sensing control | | N |
| | - thermal link | <input type="checkbox"/> Yes <input type="checkbox"/> No | N |
| | - manual reset cut-out | <input type="checkbox"/> Yes <input type="checkbox"/> No | N |
| | - auto reset cut-out | <input type="checkbox"/> Yes <input type="checkbox"/> No | N |
| | - case of abnormal conditions | | N |
| | - highest measured temperature of fixing point/exposed part (°C): | -- | N |
| | Ball-pressure test: | | N |
| | - part tested; temperature (°C)..... | -- | N |
| | - part tested; temperature (°C)..... | -- | N |

| EN 60598-2-1 | | | |
|------------------|--|---------------------------|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.13 (9) | RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE | | P |
| 1.13 (9.2) | Tests for ingress of dust, solid objects and moisture: | | P |
| | - classification according to IP | IP20 | P |
| | - mounting position during test..... | According to instructions | P |
| | - fixing screws tightened; torque (Nm) | -- | N |
| | - tests according to clauses..... | 9.2.0 | P |
| | - electric strength test afterwards | | P |
| | a) no deposit in dust-proof luminaire | | N |
| | b) no talcum in dust-tight luminaire | | N |
| | c) no trace of water on current-carrying parts or SELV parts or where it could become a hazard | | N |
| | d) i) For luminaires without drain holes – no water entry | | N |
| | d) ii) For luminaires with drain holes – no hazardous water entry | | N |
| | e) no water in watertight luminaire | | N |
| | f) no contact with live parts (IP 2X) | | P |
| | f) no entry into enclosure (IP 3X and IP 4X) | | N |
| | f) no contact with live parts (IP3X and IP4X) | | N |
| | g) no trace of water on part of lamp requiring protection from splashing water | | N |
| | h) no damage of protective shield or glass envelope | | N |
| 1.13 (9.3) | Humidity test 48 h | 25 °C, 93 % RH, 48 h | P |
| 1.14 (10) | INSULATION RESISTANCE AND ELECTRIC STRENGTH | | P |
| 1.14 (10.2.1) | Insulation resistance test | | P |
| | Cable or cord covered by metal foil or replaced by a metal rod of mm Ø | Metal foil | P |
| | Insulation resistance (MΩ) | | P |
| | SELV: | | N |
| | - between current-carrying parts of different polarity | -- | N |
| | - between current-carrying parts and mounting surface . : | -- | N |
| | - between current-carrying parts and metal parts of the luminaire | -- | N |
| | Other than SELV: | | P |
| | - between live parts of different polarity..... | > 100 MΩ | P |
| | - between live parts and mounting surface..... | -- | P |
| | - between live parts and metal parts..... | > 100 MΩ | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|------------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 1.14 (10.2.2) | Electric strength test | | P |
| | Dummy lamp | | N |
| | Luminaires with ignitors after 24 h test | | N |
| | Luminaires with manual ignitors | | N |
| | Test voltage (V): | | P |
| | SELV: | | N |
| | - between current-carrying parts of different polarity | -- | N |
| | - between current-carrying parts and mounting surface .. | -- | N |
| | - between current-carrying parts and metal parts of the luminaire | -- | N |
| | Other than SELV: | | P |
| | - between live parts of different polarity..... | 1600 V | P |
| | - between live parts and mounting surface..... | -- | P |
| | - between live parts and metal parts..... | 3200 V | P |
| | - between live parts of different polarity through action of a switch | -- | N |
| 1.14 (10.3) | Touch current (mA)..... | 0.002 | P |
| | Protective conductor current | -- | N |

| | | | |
|------------------|---------------------------------------|----------------|---|
| 1.15 (13) | RESISTANCE TO HEAT, FIRE AND TRACKING | | P |
| 1.15 (13.2.1) | Ball-pressure test: | | P |
| | - part tested; temperature (°C)..... | Enclosure; 125 | P |
| | - part tested; temperature (°C)..... | -- | N |
| | - part tested; temperature (°C)..... | -- | N |
| | - part tested; temperature (°C)..... | -- | N |
| | - part tested; temperature (°C)..... | -- | N |
| | - part tested; temperature (°C)..... | -- | N |
| 1.15 (13.3.1) | Needle flame test (10 s): | | P |
| | - part tested | Enclosure | P |
| | - part tested | -- | N |
| | - part tested | -- | N |
| | - part tested | -- | N |
| | - part tested | -- | N |
| 1.15 (13.3.2) | Glow-wire test (650°C): | | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|------------------|---------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - part tested | Enclosure | P |
| | - part tested | -- | N |
| 1.15 (13.4.1) | Tracking test: | | N |
| | - part tested | -- | N |

| | | | |
|------------|--|----|---|
| (14) | SCREW TERMINALS | | N |
| (14.2) | Type of terminal | | N |
| | Rated current (A) | -- | N |
| (14.3.2.1) | One or more conductors | | N |
| (14.3.2.2) | Special preparation | | N |
| (14.3.2.3) | Terminal size | | N |
| | Cross-sectional area (mm ²) | -- | N |
| (14.3.3) | Conductor space (mm) | -- | N |
| (14.4) | Mechanical tests | | N |
| (14.4.1) | Minimum distance | | N |
| (14.4.2) | Cannot slip out | | N |
| (14.4.3) | Special preparation | | N |
| (14.4.4) | Nominal diameter of thread (metric ISO thread) | -- | N |
| | External wiring | | N |
| | No soft metal | | N |
| (14.4.5) | Corrosion | | N |
| (14.4.6) | Nominal diameter of thread (mm) | -- | N |
| | Torque (Nm) | -- | N |
| (14.4.7) | Between metal surfaces | | N |
| | Lug terminal | | N |
| | Mantle terminal | | N |
| | Pull test; pull (N) | -- | N |
| (14.4.8) | Without undue damage | | N |

| | | | |
|----------|-------------------------|----|---|
| (15) | SCREWLESS TERMINALS | | N |
| (15.2) | Type of terminal | -- | N |
| | Rated current (A) | -- | N |
| (15.3.1) | Material | | N |
| (15.3.2) | Clamping | | N |
| (15.3.3) | Stop | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | | | | | | | | |
|-------------------|---|----|----|----|----|-----------------|----|----|----|---------|
| Clause | Requirement + Test | | | | | Result - Remark | | | | Verdict |
| (15.3.4) | Unprepared conductors | | | | | | | | | N |
| (15.3.5) | Pressure on insulating material | | | | | | | | | N |
| (15.3.6) | Clear connection method | | | | | | | | | N |
| (15.3.7) | Clamping independently | | | | | | | | | N |
| (15.3.8) | Fixed in position | | | | | | | | | N |
| (15.3.10) | Conductor size | | | | | | | | | N |
| | Type of conductor | | | | | | | | | N |
| (15.5.1) | Terminals internal wiring | | | | | | | | | N |
| (15.5.1.1) | Pull test spring-type terminals (4 N, 4 samples).....: | | | | | -- | | | | N |
| (15.5.1.2) | Pull test pin or tab terminals (4 N, 4 samples) | | | | | -- | | | | N |
| | Insertion force not exceeding 50 N | | | | | | | | | N |
| (15.5.2) | Permanent connections: pull-off test (20 N) | | | | | | | | | N |
| (15.6) | Electrical tests | | | | | | | | | N |
| | Voltage drop (mV) after 1 h (4 samples) | | | | | -- | | | | N |
| | Voltage drop of two inseparable joints | | | | | | | | | N |
| | Number of cycles.....: | | | | | -- | | | | N |
| | Voltage drop (mV) after 10th alt. 25th cycle (4 samples) : | | | | | -- | | | | N |
| | Voltage drop (mV) after 50th alt. 100th cycle (4 samples) | | | | | -- | | | | N |
| | After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples) | | | | | -- | | | | N |
| | After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples) | | | | | -- | | | | N |
| (15.7) | Terminals external wiring | | | | | | | | | N |
| | Terminal size and rating | | | | | | | | | N |
| (15.8.1) | Pull test spring-type terminals or welded connections (4 samples); pull (N) | | | | | -- | | | | N |
| | Pull test pin or tab terminals (4 samples); pull (N) | | | | | -- | | | | N |
| (15.9) | Contact resistance test | | | | | | | | | N |
| | Voltage drop (mV) after 1 h | | | | | | | | | N |
| terminal | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| voltage drop (mV) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Voltage drop of two inseparable joints | | | | | | | | | N |
| | Voltage drop after 10th alt. 25th cycle | | | | | | | | | N |
| | Max. allowed voltage drop (mV) | | | | | -- | | | | -- |
| terminal | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| voltage drop (mV) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | | | | | | | | |
|-------------------|--|----|----|----|----|-----------------|----|----|----|----|
| Clause | Requirement + Test | | | | | Result - Remark | | | | |
| | Voltage drop after 50th alt. 100th cycle | | | | | | | | | N |
| | 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 | | | | | | | | | N |
| | 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 | | | | | | | | | N |
| | Max. allowed voltage drop (mV) | | | | | -- | | | | |
| terminal | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| voltage drop (mV) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | CENELEC COMMON MODIFICATIONS (EN) | | | | | | | | | P |
| 1.5 (3) | MARKING | | | | | | | | | N |
| 1.5 (3.3.101) | Adequate warning on the package | | | | | | | | | |
| 1.6 (4) | CONSTRUCTION | | | | | | | | | N |
| 1.6 (4.11.6) | Electro-mechanical contact systems | | | | | | | | | |
| 1.10 (5) | EXTERNAL AND INTERNAL WIRING | | | | | | | | | P |
| 1.10 (5.2.1) | Connecting leads | | | | | | | | | |
| | - without a means for connection to the supply | | | | | | | | | |
| | - terminal block specified | | | | | | | | | |
| | - relevant information provided | | | | | | | | | |
| | - compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1 | | | | | | | | | |
| 1.10 (5.2.2) | Cables equal to HD21 S2 or HD22 S2 | | | | | | | | | |
| 1.12 (12) | ENDURANCE TEST AND THERMAL TEST | | | | | | | | | P |
| 1.12 (12.4.2c) | Thermal test (normal operation) | | | | | | | | | |
| ZB | ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN) | | | | | | | | | N |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|--------------|--|-----------------|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| (3.3) | DK: power supply cord with label | | N |
| | IT: warning label on Class 0 luminaire | | N |
| (4.5.1) | DK: socket-outlets | | N |
| (5.2.1) | CY, DK, FI, SE, GB: type of plug | | N |
| ZC | ANNEX ZC, NATIONAL DEVIATIONS (EN) | | N |
| (4 & 5) | FR: Shuttered socket-outlets 10/16A | | N |
| (13.3) | FR: Glow-wire test 850°C alt. 750°C for luminaires in premises open to public or 960°C for luminaires in emergency exits | | N |
| (13.3) | GB: Requirements according to United Kingdom Building Regulation | | N |
| | AMENDMENT: EN 60598-1:2008 + A11:2009 | | P |
| | Replace the existing definition 1.2.76 with the following: | | P |
| 1.2.76 | Impulse withstand category (former term "overvoltage categories") | | P |
| | Numeral defining a transient overvoltage condition | | P |
| Note 1 | Impulse withstand categories I, II, III and IV are used. | | P |
| Note 2 | Explanation is taken from IEC 60364-4-44:2007 | | P |
| | Table 1.1 | | P |

Report No.: NSL-151113010105-R

| EN 60598-2-1 | | | |
|--------------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | | |
|--|--|--|--|
| <p style="text-align: center;">ANNEX 1 LIST OF CRITICAL COMPONENTS</p> | | | |
|--|--|--|--|

| ANNEX 1 | List of critical components | | | | | P |
|-------------------|--|---------------|---------------------------------|-------------|-----------------------|---|
| Object/part No. | Manufacturer/ trademark | Type/model(s) | Technical data | Standard(s) | Mark(s) of conformity | |
| Power plug | ShunDe TianJu Electrical Industry Co.,Ltd | T-005 | 2.5 A, 250 V | IEC 60083 | VDE 40007972 | |
| (Alternative) | Various | Various | 2.5 A, 250 V | IEC 60083 | VDE | |
| Power cord | Shenzhen Baohing electric wire & cable manufactory Co. Ltd | H03VV-F | 2 × 0.75 mm ² | VDE 0281-5 | VDE 103727 | |
| (Alternative) | Various | Various | 2 × 0.75 mm ² | VDE 0281-5 | VDE | |
| Internal wire | Bizlink International Corp | 1015 | Min.22 AWG, 600 V, 105 °C, VW-1 | -- | UL E164571 | |
| (Alternative) | Various | Various | Min.22 AWG, 600 V, 105 °C, VW-1 | -- | UL | |
| Insulation Tubing | Shenzhen Changbao Special Plastic Products Co.,Ltd | CB-TT | V-0, 200 °C | -- | UL 80908 | |
| Enclosure | Chimei - Ashahi corporation | PC-110+ | V-0, 125 °C | -- | UL E214362 | |
| Lampholder | Shanghai Juan Kuang Luminaire Co., Ltd. | L4501-1 | 600 V, 1500 W | EN 60238 | CE | |

EN 60598-2-1

| Clause | Requirement + Test | Result - Remark | Verdict |
|--------|--------------------|-----------------|---------|
|--------|--------------------|-----------------|---------|

ANNEX 2

TABLES OF TEST RESULTS

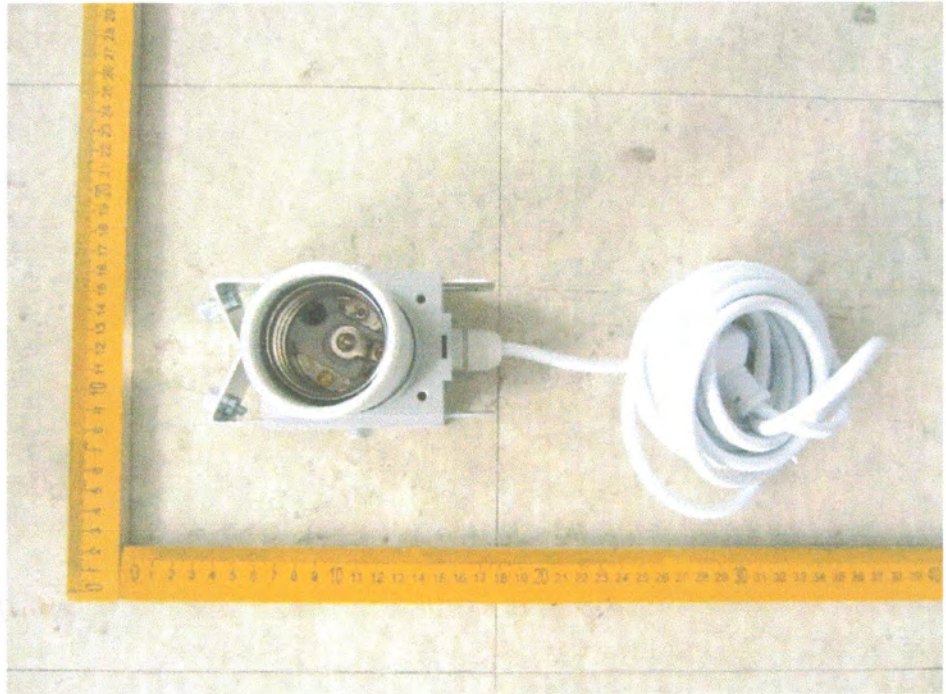
| | | | | | | | |
|--------------------------|---|---------------------------|--------|--------|------------------------|--------|-------|
| 12 | TABLE: Temperature measurements, thermal tests of Section 12 (according to IEC 60598-1) | | | P | | | |
| | Type reference | HG-LampHolder | | -- | | | |
| | Lamp used | Mercury lamp | | -- | | | |
| | Lamp control gear used | -- | | -- | | | |
| | Mounting position of luminaire..... | According to instructions | | -- | | | |
| | Supply wattage (W) | 1560 | | -- | | | |
| | Supply current (A)..... | 4.9 | | -- | | | |
| | Calculated power factor | 1 | | -- | | | |
| | Table: measured temperatures corrected for ta (°C)..... | 25 | | -- | | | |
| | - abnormal operating mode | -- | | -- | | | |
| | - test 1: rated voltage (V) | -- | | -- | | | |
| | - test 2: 1,06 times rated voltage or 1,05 times rated wattage | 318 V AC | | -- | | | |
| | - 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..... | -- | | -- | | | |
| Temperature (°C) of part | | Clause 12.4 – normal | | | Clause 12.5 – abnormal | | |
| | | Test 1 | Test 2 | Test 3 | Limit | Test 4 | Limit |
| Power cord | | -- | 34.0 | -- | 70 | -- | -- |
| Internal wire | | -- | 77.6 | -- | 125 | -- | -- |
| Mounting surface | | -- | 52.4 | -- | 90 | -- | -- |
| Lampholder | | -- | 128.7 | -- | 225 | -- | -- |

Report No.: NSL-151113010105-R

ANNEX 3 PHOTOGRAPHS

No. 1

- ☐ General
☒ Appearance
☐ Label
☐ Internal
☐ PCB board
☐ Transformer
☐ Motor
☐ Other:

**No. 2**

- ☐ General
☒ Appearance
☐ Label
☐ Internal
☐ PCB board
☐ Transformer
☐ Motor
☐ Other:

