



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

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

Report Number..... : B10-3/094/B/22
Date of issue..... : 2022-07-08
Total number of pages 55 + Appendix No.1 – Summary LED modules - Control gears – on CD

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




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

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

TRF template used..... : IECEE OD-2020-F1:2021, Ed.1.4
Test Report Form No. : IEC60598_2_3M
Test Report Form(s) Originator : Intertek Semko AB
Master TRF 2021-11-11

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| | | |
|---|---|---|
| Test item description : | Luminaires for road and street lighting | |
| Trade Mark(s) | LUG | |
| Manufacturer | LUG Light Factory Sp z.o.o. Gorzowska 11; 65-127 Zielona Góra - Poland | |
| Model/Type reference | URBINO LED S family cl II – series – see also “General product information | |
| Ratings : | 220-240V, 50/60Hz, IP66, IK10, cl.II – details see pages 4-10 | |
| Responsible Testing Laboratory (as applicable), testing procedure and testing location(s): | | |
| <input type="checkbox"/> | CB Testing Laboratory: | Łukasiewicz - IMiF PREDOM Division |
| Testing location/ address : | | 02-255 Warszawa, ul. Krakowiaków 53, Poland |
| Tested by (name, function, signature) : | | K. Lisowski  |
| Approved by (name, function, signature) ... : | | T. Małyska  |
| Supervised by (+ signature) | | F. Walczak  |
| <input type="checkbox"/> | Testing procedure: CTF Stage 1: | |
| Testing location/ address : | | |
| Tested by (name, function, signature) : | | |
| Approved by (name, function, signature) ... : | | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 2: | |
| Testing location/ address : | | |
| Tested by (name + signature) | | |
| Witnessed by (name, function, signature) .: | | |
| Approved by (name, function, signature) ... : | | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 3: | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 4: | |
| Testing location/ address : | | |
| Tested by (name, function, signature) : | | |
| Witnessed by (name, function, signature) .: | | |
| Approved by (name, function, signature) ... : | | |
| Supervised by (name, function, signature) : | | |

| | |
|---|---|
| List of Attachments (including a total number of pages in each attachment): | |
| – Attachment No. 1 (Report Reference No. B10-3/094/B/22- 2 pages) | |
| Summary of testing: Positive | |
| <i>According to ISO / IEC Guide 98-4 for the assessment of compliance of the measurement result with the requirements, criterion B was chosen. 50% risk of incorrect assessment decision belongs to the customer and 50% risk of incorrect assessment belongs to the laboratory</i> | |
| Tests performed (name of test and test clause): | Testing location: |
| IEC 60598-2-3:2002, IEC 60598-2-3:2002/AMD1:2011 used in conjunction with IEC 60598-1:2020 - all clauses | Łukasiewicz - IMiF PREDOM Division 02-255 Warszawa, ul. Krakowiaków 53, Poland |
| Summary of compliance with National Differences (List of countries addressed): | |
| See Attachment No. 1 to this Test Report (Report Reference No. B10-3/094/B/22 - 2 pages) | |
| <input checked="" type="checkbox"/> The product fulfils the requirements of EN 60598-2-3:2003 + A1:2011 used in conjunction with EN IEC 60598-1:2021 + A11:2022 | |
| Use of uncertainty of measurement for decisions on conformity (decision rule) : | |
| <input checked="" type="checkbox"/> 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"). | |
| <input type="checkbox"/> Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply) | |
| Information on uncertainty of measurement: | |
| The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE. | |
| IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer. | |
| Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing. | |

Copy of marking plate:



| | |
|--|--|
| Test item particulars: Luminaire for road and street lighting | |
| Classification of installation and use: Normal use | |
| Supply Connection: Connector | |
| Possible test case verdicts: | |
| - test case does not apply to the test object.....: N/A | |
| - test object does meet the requirement.....: P (Pass) | |
| - test object does not meet the requirement.....: F (Fail) | |
| Testing: | |
| Date of receipt of test item: 2022-06-06 | |
| Date (s) of performance of tests: 2022-06-06 - 2022-07-08 | |
| | |
| 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 <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator. | |
| Clause numbers between brackets refer to clauses in IEC 60598-1 | |
| Manufacturer's Declaration per sub-clause 4.2.5 of IEC 02: | |
| 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: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable |
| When differences exist; they shall be identified in the General product information section. | |
| Name and address of factory (ies): LUG Light Factory Sp. z o.o. ul. Gorzowska 11 65-127 Zielona Góra Poland | |

General product information and other remarks:

| | | |
|--|--|--|
| Name and address of the license holder: | LUG Light Factory Sp. z o.o. ul. Gorzowska 11, 65-127 Zielona Góra - Poland | |
| Address of the factory: | LUG Light Factory Sp. z o.o. ul. Gorzowska 11, 65-127 Zielona Góra - Poland | |
| Name of product: | URBINO LED S | |
| Trade mark : | LUG | |
| Technical data: | | |
| Rated voltage | 220-240V | |
| Rated frequency: | 50/60Hz | |
| Max Power | 74W | |
| Protection against electric shock: | Class II | |
| Degree of protection: | IP66; IK10 | |
| ta | 4,5W - 36W | Ta= -40°C / -35°C* / -30°C** ... +55°C |
| | 37W - 51W | Ta= -40°C / -35°C* / -30°C**/-25°*** ... +50°C |
| | 52W - 74W | Ta= -40°C / -35°C* / -30°C**/-25°*** ... +40°C |

* - For luminaires equipped with:

- Vossloh Schwabe SP/230/10K/i

** - For luminaires equipped with:

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

*** - For luminaires equipped with:

- LACROIX DL-PAK 70

Choice sheet of the luminaires URBINO LED S family cl II – series:**Example of symbol:**

130772.7LR7B40S895.201.N.P

1 2 3 4 5 6 7 8 9

Designations used on the marking of luminaires (some designation may not appear in the name) :

| | | | |
|----------|------------------------------|---|---|
| 1 | 13077 13078 | - | Code of the series URBINO LED S - XPG3 SERIES Code of the series URBINO LED S - LUXEON SERIES |
| 2 | 2 | - | Color: 2: grey 5: graphite 0: another |
| 3 | 7L | - | Type of power supply: 2L - DIMM 1-10V 3L – DALI 5L – on-off 6L – on-off / DALI 7L - ZHAGA D4i PL – programmable |
| 4 | R7 | - | CRI: R7 = 70-79 R8 = 80-89 |

| | | | |
|----------|-------------|---|--|
| 5 | B40 | - | Color temperature: B22 = 2200 B27 = 2700 B30 = 3000 B40 = 4000 B57 = 5700 B65 = 6500 |
| 6 | S895 | - | Max. luminous flux (e.g. S895 = 8950lm) |
| 7 | 2 | - | Safety Class II |
| 8 | 01 | - | Optic: 01 O1 - for road lighting type O1 02 O2 - for road lighting type O2 ... 99 O99 - for road lighting type O99 |
| 9 | N.P | - | Additional equipment A - additional corrosion protection B - Tool-free access to the LED Driver U - ϕ 76mm pole N - NEMA Socket Z - ZHAGA Socket T - NTC Sensor W - Twilight Sensor V - Surge Device Protector 10kV P- Anti pressure vent I- iBloc ("URBAN" smart city system) K- Knife switch connector |

List of LED's and electronic led driver's system:

| Control gear's | P [W] | U min [V] | U compatible [V] | I compatible [mA] | Module's* |
|--|-------|-----------|------------------|-------------------|---|
| Osram OT 165/170-240/1A0 4DIMLT2 E | 165 | 90 | 285 | 1050 | <p>Choice sheet of the URBINO LED S series modules:</p> <p>Example of symbol:</p> <p>ML21XXXYY.WQQQ.UUV</p> <p style="text-align: center;"> 1 2 3 4 5 6 7 8 </p> <p>Designations used on the marking of LED boards:</p> <p>1. ML - PCB designation (ML – LED module):</p> <p>2. 21 - Year of the project:</p> <p>3. XXX - Number of the project: Luxeon modules: 660, 661, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693 Cree modules: 600, 601, 610, 611</p> <p>4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99 Light color: W: White</p> <p>6. QQQ - CRI and CCT: 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K</p> <p>7. UU - Assembly variant (selected components not mounted): 01...99</p> <p>8. V - NTC Thermistor type: A - none B – 10K C – 47K</p> |
| Osram OT 60/170-240/1A0 4DIMLT2 E | 60 | 30 | 115 | 1050 | |
| OT180W/UNV/800C/2DIMLT2/P6 | 180 | 82 | 280 | 800 | |
| OT100W/UNV/800C/2DIMLT2/P6 | 100 | 50 | 185 | 800 | |
| OT 110/170...240/1A0 1DIMLT2 G1 CE | 110 | 80 | 220 | 1050 | |
| OT 20/170-240/1A0 1DIM LT2 G1 CE | 22 | 10 | 38 | 1050 | |
| OT 75/170...240/1A0 1DIMLT2 G1 CE | 75 | 35 | 115 | 1050 | |
| Philips Xi LP 150W 0.3-1.0A S1 230V S240 sXt | 150 | 70 | 214 | 1050 | |
| Tridonic LCA 120W 300-1050mA 1-10V ADV | 120 | 40 | 114 | 1050 | |
| Tridonic LCA 75W 250-750mA one4all C | 75 | 45 | 130 | 750 | |
| Tridonic LCA 120W 350-1050mA o | 120 | 105 | 320 | 1050 | |
| Tridonic LCA 160W 350-1050mA o | 160 | 105 | 320 | 1050 | |
| OT DX 40/220...240/1A0 DIMA LT2 E | 40 | 15 | 56 | 1050 | |
| OT DX 75/220...240/1A0 DIMA LT2 E | 75 | 35 | 115 | 1050 | |
| OT DX 110/220...240/1A0 DIMA LT2 E | 110 | 75 | 220 | 1050 | |
| OT 20/170...240/1A0 4DIMLT2 G2 CE | 20 | 10 | 38 | 1050 | |
| OT 40/170...240/1A0 4DIMLT2 G2 CE | 40 | 15 | 56 | 1050 | |
| OT 75/170...240/1A0 4DIMLT2 G2 CE | 75 | 35 | 115 | 1050 | |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 110 | 80 | 220 | 1050 | |
| OT 20/170...240/1A0 1DIMLT2 G1 CE | 20 | 10 | 38 | 1050 | |
| OT 40/170...240/1A0 1DIMLT2 G1 CE | 40 | 15 | 56 | 1050 | |
| OT 40/120...277/1A0 4DIMLT2 E | 40 | 15 | 56 | 1050 | |
| OT 60/170...240/1A0 4DIMLT2 E | 60 | 30 | 115 | 1050 | |
| OT 90/170...240/1A0 4DIMLT2 E | 90 | 57 | 186 | 1050 | |
| OT 165/170...240/1A0 4DIMLT2 E | 165 | 90 | 285 | 1050 | |
| OT 50/120...277/800 2DIMLT2 P | 50 | 30 | 115 | 800 | |
| OT 50/120...277/1A2 2DIMLT2 P | 50 | 20 | 55 | 1250 | |
| OT 100/120...277/800 2DIMLT2 P | 100 | 50 | 186 | 800 | |
| OT 110/120...277/1A4 2DIMLT2 P | 110 | 35 | 85 | 1400 | |
| OT 60/220...240/1A4 1DIMA P7 | 60 | 43 | 86 | 1400 | |
| OT 100/220...240/1A4 1DIMA P7 | 100 | 72 | 144 | 1400 | |
| OT 150/220...240/1A4 1DIMA P7 | 150 | 91 | 350 | 1400 | |
| Xitanium 40W 0.7A Prog+ GL-J sXt | 40 | 29 | 57 | 700 | |
| Xitanium 75W 0.35-0.70A GL Prog+ sXt | 75 | 80 | 152 | 700 | |
| Xitanium 75W 0.1-1.05A Prog GL F sXt | 75 | 36 | 75 | 1050 | |
| Xitanium 100W 0.7A Prog+ GL-Z sXt | 100 | 71 | 143 | 700 | |
| Xitanium 150W 0.1-1.05A Prog+ GL F sXt | 150 | 70 | 148 | 1050 | |
| Xitanium 300W 1.5A Prog+ GL-R sXt | 300 | 80 | 280 | 1050 | |
| Xi BP 12W 0.1-0.5A S 230V C100 | 12 | 13 | 39 | 500 | |
| Xi BP 22W 0.2-0.7A S 230V C123 | 22 | 16 | 48 | 700 | |
| Xi BP 40W 0.2-0.7A S 230V C123 | 40 | 25 | 77 | 700 | |
| Xi BP 40W 0.3-1.0A S 230V C123 | 40 | 20 | 54 | 1000 | |
| Xi LP 22W 0.2-0.7A S1 230V C123 sXt | 22 | 16 | 48 | 700 | |
| Xi LP 22W 0.3-1.0A S1 230V C123 sXt | 22 | 8 | 32 | 1000 | |
| Xi LP 40W 0.2-0.7A S1 230V C123 sXt | 40 | 25 | 77 | 700 | |
| Xi LP 40W 0.3-1.0A S1 230V C123 sXt | 40 | 20 | 54 | 1000 | |
| Xi LP 75W 0.2-0.7A S1 230V C133 sXt | 75 | 50 | 150 | 700 | |
| Xi LP 75W 0.3-1.0A S1 230V C133 sXt | 75 | 35 | 108 | 1000 | |
| Xi LP 75W 0.5-1.5A S1 230V C133 sXt | 75 | 25 | 75 | 1500 | |
| Xi LP 110W 0.2-0.7A S1 230V C133 sXt | 110 | 70 | 220 | 700 | |
| Xi LP 110W 0.3-1.0A S1 230V C133 sXt | 110 | 50 | 160 | 1000 | |
| Xi LP 165W 0.2-0.7A S1 230V C170 sXt | 165 | 100 | 300 | 700 | |
| Xi LP 165W 0.3-1.0A S1 230V C170 sXt | 165 | 80 | 235 | 1000 | |
| Xi LP 165W 0.5-1.5A S1 230V C170 sXt | 165 | 54 | 157 | 1500 | |
| Xi LP 22W 0.2-0.7A S1 230V S175 sXt | 22 | 16 | 48 | 700 | |
| Xi LP 22W 0.3-1.0A S1 230V S175 sXt | 22 | 8 | 32 | 1000 | |
| Xi LP 40W 0.2 -0.7A S1 230V S175 sXt | 40 | 23 | 77 | 700 | |
| Xi LP 40W 0.2-0.7A SL 230V S175 sXt | 40 | 25 | 77 | 700 | |
| Xi LP 40W 0.3-1.0A S1 230V S175 sXt | 40 | 20 | 54 | 1000 | |
| Xi LP 40W 0.3-1.0A SL 230V S175 sXt | 40 | 20 | 54 | 1000 | |
| Xi LP 40W 0.2-0.7A SN 230V S175 sXt | 40 | 25 | 77 | 700 | |
| Xi LP 75W 0.2-0.7A S1 230V S240 sXt | 75 | 50 | 150 | 700 | |
| Xi LP 75W 0.2-0.7A SL 230V S240 sXt | 75 | 50 | 150 | 700 | |
| Xi LP 75W 0.3-1.0A S1 230V S240 sXt | 75 | 35 | 108 | 1000 | |
| Xi LP 75W 0.3-1.0A SL 230V S240 sXt | 75 | 35 | 108 | 1000 | |
| Xi LP 75W 0.2-0.7A SN 230V S240 sXt | 75 | 50 | 150 | 700 | |
| Xi LP 75W 0.5-1.5A S1 230V S240 sXt | 75 | 25 | 75 | 1500 | |
| Xi LP 150W 0.2-0.7A S1 230V S240 sXt | 150 | 90 | 283 | 700 | |
| Xi LP 150W 0.2-0.7A SL 230V S240 sXt | 150 | 90 | 283 | 700 | |
| Xi LP 150W 0.3-1.0A SL 230V S240 sXt | 150 | 70 | 214 | 1000 | |
| Xi LP 150W 0.5-1.5A S1 230V S240 sXt | 150 | 50 | 142 | 1500 | |
| Xi LP 150W 0.2-0.7A SN 230V S240 sXt | 150 | 90 | 283 | 700 | |
| Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt | 22 | 16 | 48 | 700 | |
| Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt | 22 | 8 | 32 | 1000 | |
| Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt | 40 | 25 | 77 | 700 | |
| Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt | 40 | 20 | 54 | 1000 | |
| Xi FP 70W 0.3-1.0A NLD C150 230V sXt | 70 | 30 | 100 | 1000 | |

| Control gear's | P [W] | U min [V] | U compatible [V] | I compatible [mA] | Module's* |
|--|-------|-----------|------------------|-------------------|-----------|
| Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt | 75 | 50 | 150 | 700 | |
| Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt | 75 | 35 | 108 | 1000 | |
| Xi FP 75W 0.5-1.5A SNLDAE 230V C133 sXt | 75 | 25 | 71 | 1500 | |
| Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt | 100 | 50 | 150 | 700 | |
| Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt | 110 | 70 | 220 | 700 | |
| Xi FP 110W 0.3-1.0A NLD C150 230V sXt | 110 | 60 | 200 | 1000 | |
| Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt | 110 | 50 | 160 | 1000 | |
| Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt | 165 | 80 | 235 | 1000 | |
| Xi FP 165W 0.2-0.7A SNLDAE 230V C170 sXt | 165 | 100 | 300 | 700 | |
| Xi FP 330W 0.2-0.75A SNDAE 230V C240 sXt | 330 | 100 | 300 | 750 | |
| Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt | 22 | 16 | 48 | 700 | |
| Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt | 22 | 8 | 32 | 1000 | |
| Xi FP 40W 0.2-7.0A SNLDAE 230V S175 sXt | 40 | 25 | 77 | 700 | |
| Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt | 40 | 20 | 54 | 1000 | |
| Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt | 75 | 50 | 150 | 700 | |
| Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt | 75 | 35 | 108 | 1000 | |
| Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt | 150 | 90 | 283 | 700 | |
| Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt | 150 | 70 | 214 | 1000 | |
| Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt | 12 | 8 | 32 | 700 | |
| Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt | 22 | 16 | 48 | 700 | |
| Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt | 40 | 25 | 77 | 700 | |
| Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt | 75 | 50 | 150 | 700 | |
| Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt | 75 | 50 | 150 | 700 | |
| Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt | 110 | 70 | 220 | 700 | |
| Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt | 150 | 90 | 283 | 700 | |
| Xitanium 100W 2.1-4.2A AOC 230V I220 | 100 | 12 | 48 | 4200 | |
| Xitanium 150W 2.5-4.9A AOC 230V I220 | 150 | 15 | 61 | 4900 | |
| Xitanium 200W 2.8-5.6A AOC 230V I250 | 200 | 18 | 71 | 5600 | |
| Xi LP 100W 0.3-1.05A S1 230V I175 | 100 | 46 | 143 | 1000 | |
| Xi LP 150W 0.3-1.05A S1 230V I175 | 150 | 72 | 214 | 1000 | |
| Xi LP 220W 0.3-1.05A S1 230V I230 | 220 | 104 | 314 | 1000 | |
| Xi LP 220W 0.5-1.5A S1 230V I230 | 220 | 73 | 210 | 1500 | |
| Xitanium Dim 35W 0.7A 1-10V TWE I175 | 35 | 18 | 50 | 700 | |
| Xitanium Dim 100W 0.7A 1-10V TWE I220 | 100 | 71 | 143 | 700 | |
| Xitanium Dim 150W 0.7A 1-10V TWE I220 | 150 | 90 | 214 | 700 | |
| Xitanium 75W 0.7A TWE I175 | 75 | 40 | 117 | 700 | |
| Xitanium 150W 0.7A TWE I220 | 150 | 90 | 214 | 700 | |
| Xitanium 75W 1.05A 1-10V 230V C165 sXt | 75 | 36 | 75 | 1000 | |
| Xitanium 75W 0.70A 1-10V 230V C165 sXt | 75 | 52 | 107 | 700 | |
| Xitanium 150W 0.70A 1-10V 230V S240 sXt | 150 | 100 | 214 | 700 | |
| Xitanium 150W 1.05A 1-10V 230V S240 sXt | 150 | 72 | 150 | 1000 | |
| Xitanium Dim 75W 0.70A 1-10V 230V I220 | 75 | 52 | 107 | 700 | |
| Xitanium Dim 150W 0.70A 1-10V 230V I220 | 150 | 90 | 214 | 700 | |
| Xitanium 75W 1-10V 230V C165 | 75 | 52 | 107 | 700 | |
| LCO 14/100-500/38 NF C ADV3 | 14 | 12 | 38 | 500 | |
| LCO 24/200-1050/39 NF C ADV3 | 24 | 11 | 39 | 1050 | |
| LCO 40/200-1050/64 NF C ADV3 | 40 | 18 | 64 | 1050 | |
| LCO 60/200-1050/100 NF C ADV3 | 60 | 28 | 100 | 1050 | |
| LCO 90/200-1050/165 NF C ADV3 | 90 | 46 | 165 | 1050 | |
| LCO 135/200-1050/220 NF C ADV3 | 135 | 62 | 220 | 1050 | |
| LCO 200/200-1050/355 NF C ADV3 | 200 | 100 | 355 | 1050 | |
| LCO 14/100-500/38 o4a NF C EXC3 | 14 | 12 | 38 | 500 | |
| LCO 24/200-1050/39 o4a NF C EXC3 | 24 | 11 | 39 | 1050 | |
| LCO 40/200-1050/64 o4a NF C EXC3 | 40 | 18 | 64 | 1050 | |
| LCO 60/200-1050/100 o4a NF C EXC3 | 60 | 28 | 100 | 1050 | |
| LCO 90/200-1050/165 o4a NF C EXC3 | 90 | 46 | 165 | 1050 | |
| LCO 135/200-1050/220 o4a NF C EXC3 | 135 | 62 | 220 | 1050 | |
| LCO 200/200-1050/355 o4a NF C EXC3 | 200 | 100 | 355 | 1050 | |
| LCO 100/1050/95 fixC L SNC2 | 100 | 29 | 95 | 1050 | |
| LCO 100/1400/71 fixC L SNC2 | 100 | 21 | 71 | 1400 | |
| LCO 100/500/200 fixC L SNC2 | 100 | 60 | 200 | 500 | |
| LCO 100/700/143 fixC L SNC2 | 100 | 43 | 143 | 700 | |
| LCO 150/1050/142 fixC L SNC2 | 150 | 43 | 142 | 1050 | |
| LCO 150/1400/107 fixC L SNC2 | 150 | 32 | 107 | 1400 | |
| LCO 150/500/300 fixC L SNC2 | 150 | 90 | 300 | 500 | |
| LCO 150/700/214 fixC L SNC2 | 150 | 64 | 214 | 700 | |
| LCO 200/1050/190 fixC L SNC2 | 200 | 63 | 190 | 1050 | |
| LCO 200/1400/142 fixC L SNC2 | 200 | 47 | 142 | 1400 | |
| LCO 200/700/285 fixC L SNC2 | 200 | 95 | 285 | 700 | |
| LCO 75/1050/72 fixC L SNC2 | 75 | 22 | 72 | 1050 | |
| LCO 75/1400/53 fixC L SNC2 | 75 | 16 | 53 | 1400 | |
| LCO 75/500/150 fixC L SNC2 | 75 | 45 | 150 | 500 | |
| LCO 75/700/108 fixC L SNC2 | 75 | 32 | 108 | 700 | |
| LCO 135W 200-1050mA 220V pD+ NFC C PRE3 | 135 | 104 | 220 | 1050 | |
| LCO 90W 200-1050mA 165V pD+ NFC C PRE3 | 90 | 78 | 165 | 1050 | |
| OT 100/UNV/1A0 2DIM P7 | 100 | 75 | 150 | 1050 | |
| OT 150/UNV/1A0 2DIM P7 | 150 | 107 | 214 | 1050 | |
| OT 100/220-240/1A4 2DIM P7 | 100 | 61 | 144 | 1400 | |

| Control gear's | P [W] | U min [V] | U compatible [V] | I compatible [mA] | Module's* |
|---------------------------------|----------|--------------|---------------------|----------------------|-----------|
| OT 150/ 220-240/1A4 2DIM P7 | 150 | 91 | 214 | 1400 | |
| EBS-040S105BT2 | 40 | 19 | 57 | 1050 | |
| EUM-075S | 75 | 18 | 54 | 2100 | |
| EBS-080S105BT2 | 80 | 38 | 114 | 700 | |
| EBS-040S070BT2 | 40 | 28 | 89 | 700 | |
| EBS-080S070BT2 | 80 | 57 | 178 | 530 | |
| EUM – 100S | 100 | 17 | 143 | 2100 | |
| EUM – 150S | 150 | 18 | 214 | 3150 | |
| EUM – 200S | 200 | 18 | 286 | 4200 | |
| EUM – 240S | 240 | 18 | 453 | 4900 | |
| IT DALI 20/220...240/1A0 E | 20 | 1 | 60 | 1050 | |
| IT DALI 40/220...240/1A0 E | 40 | 1 | 60 | 1050 | |
| IT DALI 75/220...240/1A0 E | 75 | 1 | 120 | 1050 | |
| IT DALI 110/220...240/1A0 E | 110 | 1 | 200 | 1050 | |
| IT DALI 150/220...240/1A0 E | 150 | 1 | 310 | 1050 | |
| DL-PAK 70 | 70 | 18 | 115 | 700 | |
| EUCI-040105GLA | 40 | 28 | 77 | 1050 | |
| EUCI-075105GLA | 75 | 54 | 110 | 1050 | |
| EUCI-130105GLA | 130 | 60 | 200 | 1050 | |
| EUCI-170105GLA | 170 | 80 | 340 | 1050 | |
| OT 75 /220...240/1A0 1DIM G2 CE | 75 | 1 | 150 | 1050 | |
| EUCI-022105GLB | 22 | 8 | 48 | 1050 | |
| EUCI-040105GLB | 40 | 20 | 77 | 1050 | |

* - Detailed data about the compatibility of control gear and led modules - see the Appendix No.1 – Summary LED modules - control gears – on CD

After review of technical documentation, model series, characteristic of particular models, differences between models, technical parameters, class of luminaires, IP code, light sources, components, etc., luminaire 130782.7LR7B27S950.201.B.Z.V has been tested as the representative of all models of luminaires

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

| | | | |
|----------------|---|---|---|
| 3.4 (2) | CLASSIFICATION OF LUMINAIRES | | P |
| 3.4 (2.2) | Type of protection | Class II | P |
| 3.4 (2.3) | Degree of protection | IP66 | P |
| 3.4 (2.4) | Luminaire suitable for direct mounting on normally flammable surfaces | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | — |
| 3.4 (2.5) | Luminaire for normal use | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | — |
| | Luminaire for rough service | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | — |
| 3.4 (-) | Modes of installation of road or street lighting | | — |
| | a) on a pipe | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | — |
| | b) on a mast arm | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | — |
| | c) on a post top | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | — |
| | d) on span or suspension wires | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | — |
| | e) on a wall | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | — |

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

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

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

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

| IEC 60598-2-3 | | | |
|----------------------|--|-----------------|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 3.6 (4.7.2) | Test 8 mm live conductor | | P |
| | Test 8 mm earth conductor | | N/A |
| 3.6 (4.7.3) | Terminals for supply conductors | | P |
| 3.6 (4.7.3.1) | Welded method and material | | N/A |
| | - stranded or solid conductor | | N/A |
| | - spot welding | | N/A |
| | - welding between wires | | N/A |
| | - Type Z attachment | | N/A |
| | - mechanical test according to 15.6.2 | | N/A |
| | - electrical test according to 15.6.3 | | N/A |
| | - heat test according to 15.6.3.2.3 and 15.6.3.2.4 | | N/A |
| 3.6 (4.7.4) | Terminals other than supply connection | | N/A |
| 3.6 (4.7.5) | Heat-resistant wiring/sleeves | | N/A |
| 3.6 (4.7.6) | Multi-pole plug | | N/A |
| | - test at 30 N | | N/A |
| 3.6 (4.8) | Switches | | N/A |
| | - adequate rating | | N/A |
| | - adequate fixing | | N/A |
| | - polarized supply | | N/A |
| | - compliance with IEC 61058-1 for electronic switches | | N/A |
| 3.6 (4.9) | Insulating lining and sleeves | | N/A |
| 3.6 (4.9.1) | Retainment | | N/A |
| | Method of fixing | | N/A |
| 3.6 (4.9.2) | Insulated linings and sleeves: | | N/A |
| | Resistant to a temperature > 20 °C to the wire temperature or | | N/A |
| | a) & c) Insulation resistance and electric strength | | N/A |
| | b) Ageing test. Temperature (°C) | | N/A |
| 3.6 (4.10) | Double or reinforced insulation | | P |
| 3.6 (4.10.1) | No contact, mounting surface – accessible metal parts – wiring of basic insulation | | P |
| | Safe installation fixed luminaires | | N/A |
| | Capacitors and switches | | N/A |
| 3.6 (4.10.2) | Assembly gaps: | | N/A |
| | - not coincidental | | N/A |

| IEC 60598-2-3 | | | |
|----------------------|--|-----------------|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - no straight access with test probe | | N/A |
| 3.6 (4.10.3) | Retention of insulation: | | P |
| | - fixed | | P |
| | - unable to be replaced; luminaire inoperative | | P |
| | - sleeves retained in position | | P |
| | - lining in lampholder | | N/A |
| 3.6 (4.10.4) | Protective impedance device | | N/A |
| | Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor | | N/A |
| | Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor | | N/A |
| | Capacitors comply with IEC 60384-14 | | N/A |
| | Resistors comply with test (a) in 14.1 of IEC 60065 | | N/A |
| 3.6 (4.11) | Electrical connections and current-carrying parts | | P |
| 3.6 (4.11.1) | Contact pressure | | P |
| 3.6 (4.11.2) | Screws: | | N/A |
| | - self-tapping screws | | N/A |
| | - thread-cutting screws | | N/A |
| 3.6 (4.11.3) | Screw locking: | | N/A |
| | - spring washer | | N/A |
| | - rivets | | N/A |
| 3.6 (4.11.4) | Material of current-carrying parts | | P |
| 3.6 (4.11.5) | No contact to wood or mounting surface | | P |
| 3.6 (4.11.6) | Electro-mechanical contact systems | | N/A |
| 3.6 (4.12) | Screws and connections (mechanical) and glands | | N/A |
| 3.6 (4.12.1) | Screws not made of soft metal | | P |
| | Screws of insulating material | | N/A |
| | Torque test: torque (Nm); part..... : control gear, screws: 1,2 Nm glass: 1,2 Nm | | P |
| | Torque test: torque (Nm); part..... : connector: 0,5 Nm led module: 0,5 Nm | | P |
| | Torque test: torque (Nm); part..... : spigot: 20 Nm | | P |
| 3.6 (4.12.2) | Screws with diameter < 3 mm screwed into metal | | N/A |
| 3.6 (4.12.4) | Locked connections: | | N/A |

| IEC 60598-2-3 | | | |
|-------------------|---|-----------------|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - fixed arms; torque (Nm) | | N/A |
| | - lampholder; torque (Nm) | | N/A |
| | - push-button switches; torque 0,8 Nm | | N/A |
| 3.6 (4.12.5) | Screwed glands; force (Nm)..... | | N/A |
| 3.6 (4.13) | Mechanical strength | | P |
| 3.6 (4.13.1) | Impact tests: | | P |
| | - fragile parts; energy (Nm) | 0,5 Nm | P |
| | - other parts; energy (Nm) | 0,7 Nm | P |
| | 1) live parts | | P |
| | 2) linings | | N/A |
| | 3) protection | | P |
| | 4) covers | | P |
| 3.6 (4.13.2) | Metal parts have adequate mechanical strength | | N/A |
| 3.6 (4.13.3) | Straight test finger | | P |
| 3.6 (4.13.4) | Rough service luminaires | | N/A |
| | - IP54 or higher | | N/A |
| | a) fixed | | N/A |
| | b) hand-held | | N/A |
| | c) delivered with a stand | | N/A |
| | d) for temporary installations and suitable for mounting on a stand | | N/A |
| 3.6 (4.13.6) | Tumbling barrel | | N/A |
| 3.6 (4.14) | Suspensions, fixings and means of adjusting | | P |
| 3.6 (4.14.1) | Mechanical load: | | P |
| | A) four times the weight | | P |
| | B) torque 2,5 Nm | | P |
| | C) bracket arm; bending moment (Nm)..... | | N/A |
| | D) load track-mounted luminaires | | N/A |
| | E) clip-mounted luminaires, glass-shelve. Thickness (mm) | | N/A |
| | Metal rod. diameter (mm) | | N/A |
| | Fixed luminaire or independent control gear without fixing devices | | N/A |
| 3.6 (4.14.2) | Load to flexible cables | | N/A |
| | Mass (kg) | N/A | — |
| | Stress in conductors (N/mm ²) | | N/A |

| IEC 60598-2-3 | | | |
|----------------------|--|------------------------------|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Mass (kg) of semi-luminaire | | N/A |
| | Bending moment (Nm) of semi-luminaire | | N/A |
| 3.6 (4.14.3) | Adjusting devices: | | N/A |
| | - flexing test; number of cycles..... | | N/A |
| | - strands broken | | N/A |
| | - electric strength test afterwards | | N/A |
| 3.6 (4.14.4) | Telescopic tubes: cords not fixed to tube; no strain on conductors | | N/A |
| 3.6 (4.14.5) | Guide pulleys | | N/A |
| 3.6 (4.14.6) | Strain on socket-outlets | | N/A |
| 3.6 (4.15) | Flammable materials | | N/A |
| | - glow-wire test 650°C | See Test Table 3.15 (13.3.2) | N/A |
| | - spacing ≥ 30 mm | | N/A |
| | - screen withstanding test of 13.3.1 | | N/A |
| | - screen dimensions | | N/A |
| | - no fiercely burning material | | N/A |
| | - thermal protection | | N/A |
| | - electronic circuits exempted | | N/A |
| 3.6 (4.15.2) | Luminaires made of thermoplastic material with lamp control gear | | N/A |
| | a) construction | | N/A |
| | b) temperature sensing control | | N/A |
| | c) surface temperature | | N/A |
| 3.6 (4.16) | Luminaires for mounting on normally flammable surfaces | | P |
| | No lamp control gear | (compliance with Section 12) | N/A |
| | Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces | | N/A |
| 3.6 (4.16.1) | Lamp control gear spacing: | | N/A |
| | - spacing 35 mm | | N/A |
| | - spacing 10 mm | | N/A |
| 3.6 (4.16.2) | Thermal protection: | | P |
| | - in lamp control gear | | P |
| | - external | | N/A |
| | - fixed position | | N/A |
| | - temperature marked lamp control gear | 130°C | P |
| 3.6 (4.16.3) | Design to satisfy the test of 12.6 | (see clause 12.6) | N/A |

| IEC 60598-2-3 | | | |
|-------------------|--|--|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 3.6 (4.17) | Drain holes | | N/A |
| | Clearance at least 5 mm | | N/A |
| 3.6 (4.18) | Resistance to corrosion | | P |
| 3.6 (4.18.1) | - rust-resistance | | N/A |
| 3.6 (4.18.2) | - season cracking in copper | | P |
| 3.6 (4.18.3) | - corrosion of aluminium | | P |
| 3.6 (4.19) | Igniters compatible with ballast | | N/A |
| 3.6 (4.20) | Rough service vibration | | N/A |
| 3.6 (4.21) | Protective shield | | N/A |
| 3.6 (4.21.1) | Shield fitted if tungsten halogen lamps or metal halide lamps | | N/A |
| | Shield of glass if tungsten halogen lamps | | N/A |
| 3.6 (4.21.2) | Particles from a shattering lamp not impair safety | | N/A |
| 3.6 (4.21.3) | No direct path | | N/A |
| 3.6 (4.21.4) | Impact test on shield | | N/A |
| | Glow-wire test on lamp compartment..... : | See Test Table 3.15 (13.3.2) | N/A |
| 3.6 (4.22) | Attachments to lamps not cause overheating or damage | | N/A |
| 3.6 (4.23) | Semi-luminaires comply Class II | | N/A |
| 3.6 (4.24) | Photobiological hazards | | P |
| 3.6 (4.24.1) | No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P) | | N/A |
| 3.6 (4.24.2) | Retinal blue light hazard | | P |
| | Class of risk group assessed according to IEC/TR 62778 | Risk Group 0 for distances $\geq 2,45$ m Risk Group 1 Unlimited | — |
| | Luminaires with E_{thr} : | | N/A |
| | a) Fixed luminaires | | N/A |
| | - distance x m, borderline between RG1 and RG2 .. : | | N/A |
| | - marking and instruction according 3.2.23 | | N/A |
| | b) Portable and handheld luminaires | | N/A |
| | - marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778 | | N/A |
| | Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778 | | N/A |
| 3.6 (4.25) | Mechanical hazard | | P |
| | No sharp point or edges | | P |

| IEC 60598-2-3 | | | |
|----------------------|--|-----------------|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 3.6 (4.26) | Short-circuit protection | | N/A |
| 3.6 (4.26.1) | Adequate means of uninsulated accessible SELV parts | | N/A |
| 3.6 (4.26.2) | Short-circuit test with test chain according 4.26.3 | | N/A |
| | Supply source ES1 PSE | | N/A |
| | Test chain not melt through | | N/A |
| | Test sample not exceed values of Table 12.1 and 12.2 | | N/A |
| 3.6 (4.27) | Terminal blocks with integrated screwless earthing contacts | | 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 |
| 3.6 (4.28) | Fixing of thermal sensing control | | N/A |
| | Not plug-in or easily replaceable type | | N/A |
| | Reliably kept in position | | N/A |
| | No adhesive fixing if UV radiations from a lamp can degrade the fixing | | N/A |
| | Not outside the luminaire enclosure | | N/A |
| | Test of adhesive fixing: | | N/A |
| | Max. temperature on adhesive material ($^{\circ}\text{C}$) : | N/A | — |
| | 100 cycles between t min and t max | | N/A |
| | Temperature sensing control still in position | | N/A |
| 3.6 (4.29) | Luminaires with non-replaceable light source | | N/A |
| | Not possible to replace light source | | N/A |
| | Live part not accessible after parts have been opened by hand or tools | | N/A |
| 3.6 (4.30) | Luminaires with non-user replaceable light source | | P |
| | If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol: | | P |
| | At least one fixing means requiring use of tool | | P |
| 3.6 (4.31) | Insulation between circuits | | N/A |
| | Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3 | | N/A |

| IEC 60598-2-3 | | | |
|----------------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3 | | N/A |
| 3.6 (4.31.1) | SELV or PELV circuits | | N/A |
| | Used SELV/PELV source | | N/A |
| | Voltage \leq ELV | | N/A |
| | Insulating of SELV/PELV circuits from LV supply | | N/A |
| | Insulating of SELV/PELV circuits from other non SELV/PELV circuits | | N/A |
| | Insulating of SELV/PELV circuits from FELV | | N/A |
| | Insulating of SELV/PELV circuits from other SELV/PELV circuits | | N/A |
| | SELV/PELV circuits insulated from accessible parts according Table X.1 | | N/A |
| | Plugs not able to make any electrical contact with socket-outlets of other voltage systems | | N/A |
| | Socket outlets does not admit plugs of other voltage systems | | N/A |
| | Plugs and socket-outlets does not have protective conductor contact | | N/A |
| 3.6 (4.31.2) | FELV circuits | | N/A |
| | Used FELV source | | N/A |
| | Voltage \leq ELV | | N/A |
| | Insulating of FELV circuits from LV supply | | N/A |
| | FELV circuits insulated from accessible parts according Table X.1 | | N/A |
| | Plugs not able to make any electrical contact with socket-outlets of other voltage systems | | N/A |
| | Socket outlets does not admit plugs of other voltage systems | | N/A |
| | Socket-outlets does not have protective conductor contact | | N/A |
| 3.6 (4.31.3) | Other circuits | | P |
| | Other circuits insulated from accessible parts according Table X.1 | | N/A |
| | Class II construction with equipotential bonding for protection against indirect contacts with live parts: | | P |
| | - conductive parts are connected together | | P |
| | - test according 7.2.3 | | N/A |

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|----------------------|---|-----------------|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - conductive part not cause an electric shock in case of an insulation fault | | N/A |
| | - equipotential bonding in master/slave applications | | N/A |
| | - master luminaire provided with terminal for accessible conductive parts of slave luminaires | | N/A |
| | - slave luminaire constructed as class I | | N/A |
| 3.6 (4.32) | Overvoltage protective devices | | 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 |
| 3.6 (4.33) | Luminaire powered via information technology communication cabling | | N/A |
| | Requirements for Class III luminaire | | N/A |
| | Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector | | N/A |
| | Luminaire does not create any hazard from overvoltage | (see Annex 2) | N/A |
| 3.6 (4.34) | Electromagnetic fields (EMF) | | N/A |
| | No harmful electromagnetic fields | | N/A |
| 3.6 (4.35) | Protection against moving fan blades | | N/A |
| | Test with a standard test finger | | N/A |
| | Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire | | N/A |
| | -hardness less than D60 Shore | | N/A |
| | -peripheral speed less than 15 m/s | | N/A |
| | -input power of fan \leq 2 W at rated voltage | | N/A |
| 3.6 (4.36) | Track-mounted luminaires | | N/A |
| | Test in accordance with Annex A of IEC60570:2003/AMD2:2019 | | N/A |
| 3.6.1 (-) | At least IP X3 or X5 respectively. IP | IP66 | P |
| | Column-integrated luminaires: | | N/A |
| | - parts below 2,5 m. IP | | N/A |
| | - parts above 2,5 m. IP | | N/A |
| 3.6.2 (-) | Suspension on span wires | | N/A |
| 3.6.3 (-) | Means for attaching the luminaire or external parts to its support appropriate to the weight | | N/A |
| 3.6.3.1 (-) | Static load test | | P |

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|---------------|---|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - drag coefficient.....: | 1,2 | P |
| | - loaded area (m ²).....: | 0,09 m ² | P |
| | - used load (N).....: | 179 N | P |
| | - measured deformation (cm/m) | < 1 cm/m | P |
| | - no rotation | | P |
| 3.6.4 (-) | Adjustable lampholders | | N/A |
| 3.6.5 (-) | Luminaires installed above 5 m, glass covers shall be: | | P |
| | a) glass that fractures into small pieces (test according to 3.6.5.1), or | Side glass | N/A |
| | b) glass having a high impact shock resistance (test according to 3.6.5.2), or | | P |
| | c) protected by any means to retain glass fragments | | N/A |
| | For tunnel luminaires 3.6.5.1 apply | | N/A |
| | Method of protection declared by the manufacturer | | N/A |
| 3.6.5.1 (-) | Protection by the use of glass that fractures into small pieces | | N/A |
| | - number of particles is more than 40.....: | | N/A |
| 3.6.5.2 (-) | Protection by the use of high impact resistant glass | | P |
| 3.6.5.2.1 (-) | Glass covers have high mechanical strength | | P |
| | Test according IEC 62262 with test apparatus according IEC 60068-2-75 with impact energy of 5J on preconditioned sample | IK10 (see the Test Report No. B10-3/096/B/22 dated 08.07.2022 carried out by Łukasiewicz-IMIIF PREDOM Division) | P |
| 3.6.5.2.2 (-) | Glass covers not break into large pieces | | N/A |
| | - test according 3.6.5.1, number of particles is more than 20 | | N/A |
| 3.6.6 (-) | Connection compartment of column-integrated luminaire | | N/A |
| | - provides adequate space | | N/A |
| | - means for attachment | | N/A |
| | - means for attachment of metal corrosion-resistant | | N/A |
| 3.6.7 (-) | Compliance with ISO standard or other | | N/A |
| 3.6.8 (-) | Doors of column-integrated luminaires: | | N/A |
| | - corrosion-resistant | | N/A |
| | - opening only possible for an authorized person | | N/A |
| | - impact test 5 Nm | | N/A |
| | - sample show no damage | | N/A |
| 3.6.9 (-) | Column-integrated luminaire: | | N/A |

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

| 3.7 (11) | CREEPAGE DISTANCES AND CLEARANCES | | P |
|--------------|--|---|-----|
| 3.7 (11.2) | Creepage distances and clearances | See Table 3.7 (11.2) | P |
| | Impulse withstand category (Normal category II) (Category III Annex U, Table U.1) | Category II <input checked="" type="checkbox"/> Category III <input type="checkbox"/> | — |
| | Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1 | | N/A |
| 3.7 (11.2.2) | Creepage distances for frequency up to 30 kHz | See Test Table 3.7 (11.2) I | P |
| | Creepage distances for frequency over 30 kHz: | | N/A |
| | - Controlgear marked with \hat{U}_{OUT} and f_{UOUT} according IEC 61347-1, clause 7.1, item w | See Test Table 3.7 (11.2) II | N/A |
| | - Requirements according IEC 60664-4 for controlgear not covered by IEC 61347 | See Test Table 3.7 (11.2) II | N/A |
| 3.7 (11.2.3) | Clearances for frequency up to 30 kHz | See Test Table 3.7 (11.2) I | N/A |
| | Clearances distances for frequency over 30 kHz: | | N/A |
| | - Controlgear marked with U_P | See Test Table 3.7 (11.2) II | N/A |
| | - Requirements according IEC 60664-4 for controlgear not covered by IEC 61347 | See Test Table 3.7 (11.2) II | N/A |

| 3.8 (7) | PROVISION FOR EARTHING | | N/A |
|---------------------|---|--|-----|
| 3.8 (7.2.1 + 7.2.3) | Accessible metal parts | | N/A |
| | Metal parts in contact with supporting surface | | N/A |
| | Resistance $< 0,5 \Omega$ | | N/A |
| | Self-tapping screws used | | N/A |
| | Thread-forming screws | | N/A |
| | Thread-forming screw used in a groove | | N/A |
| | Protective earth makes contact first | | N/A |
| | Terminal blocks with integrated screwless protective earthing contacts tested according Annex V | | N/A |
| | Protective earthing of the luminaire not via built-in control gear | | N/A |
| 3.8 (7.2.2 + 7.2.3) | Protective earth continuity in joints, etc. | | N/A |

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

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

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

| | | | |
|-------------------|---|----------------------|----------|
| 3.10 (5) | EXTERNAL AND INTERNAL WIRING | | P |
| 3.10 (5.2) | Supply connection and external wiring | | P |
| 3.10 (5.2.1) | Means of connection | Connector BJB 46.412 | P |
| | Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment | | N/A |
| 3.10 (5.2.2) | Type of cable | | N/A |
| | Nominal cross-sectional area (mm ²) | | N/A |
| | Cables equal to IEC 60227 or IEC 60245 | | N/A |
| 3.10 (5.2.3) | Type of attachment, X, Y or Z | | N/A |
| 3.10 (5.2.5) | Type Z not connected to screws | | N/A |
| 3.10 (5.2.6) | Cable entries: | | P |

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|-----------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - suitable for introduction | | P |
| | - adequate degree of protection | | P |
| 3.10 (5.2.7) | Cable entries through rigid material have rounded edges | | P |
| 3.10 (5.2.8) | Insulating bushings: | | N/A |
| | - suitably fixed | | N/A |
| | - material in bushings | | N/A |
| | - material not likely to deteriorate | | N/A |
| | - tubes or guards made of insulating material | | N/A |
| 3.10 (5.2.9) | Locking of screwed bushings | | N/A |
| 3.10 (5.2.10) | Cord anchorage: | | P |
| | - covering protected from abrasion | | P |
| | - clear how to be effective | | P |
| | - no mechanical or thermal stress | | P |
| | - no tying of cables into knots etc. | | P |
| | - insulating material or lining | | P |
| 3.10 (5.2.10.1) | Cord anchorage for type X attachment: | | N/A |
| | a) at least one part fixed | | N/A |
| | b) types of cable | | N/A |
| | c) no damaging of the cable | | N/A |
| | d) whole cable can be mounted | | N/A |
| | e) no touching of clamping screws | | N/A |
| | f) metal screw not directly on cable | | N/A |
| | g) replacement without special tool | | N/A |
| | Glands not used as anchorage | | N/A |
| | Labyrinth type anchorages | | N/A |
| 3.10 (5.2.10.2) | Adequate cord anchorage for type Y and type Z attachment | | N/A |
| 3.10 (5.2.10.3) | Tests: | | N/A |
| | - impossible to push cable; unsafe | | N/A |
| | - pull test: 25 times; pull (N) | | N/A |
| | - torque test: torque (Nm) | | N/A |
| | - displacement ≤ 2 mm | | N/A |

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|--------------------|---|-----------------|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - no movement of conductors | | N/A |
| | - no damage of cable or cord | | N/A |
| | - function independent of electrical connection | | N/A |
| 3.10 (5.2.10.4) | Luminaire with/ designed for use with supply cord with maximum current of 2A: | | N/A |
| | - Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC | | N/A |
| | - Ordinary Class III luminaire supplied with PELV ≤ 12V RMS/30V DC | | N/A |
| | - Other than ordinary Class III luminaire supplied with voltage ≤ 12V RMS/30V DC | | N/A |
| | Pull test of 30N | | N/A |
| 3.10 (5.2.11) | External wiring passing into luminaire | | N/A |
| 3.10 (5.2.12) | Looping-in terminals | | N/A |
| 3.10 (5.2.13) | Wire ends not tinned | | N/A |
| | Wire ends tinned: no cold flow | | N/A |
| 3.10 (5.2.14) | Mains plug same protection | | N/A |
| | Class III luminaire plug | | N/A |
| | No unsafe compatibility | | N/A |
| 3.10 (5.2.15) | Connectors for Class III luminaires (IEC 60603 or IEC 62680) | | N/A |
| 3.10 (5.2.16) | Appliance inlets (IEC 60320) | | N/A |
| | Installation couplers (IEC 61535) | | N/A |
| | Appliance inlet or connector systems (IEC 61984) | | N/A |
| 3.10 (5.2.17) | No standardized interconnecting cables properly assembled | | N/A |
| 3.10 (5.2.18) | Used plug in accordance with | | N/A |
| | - IEC 60083 | | N/A |
| | - other standard | | N/A |
| 3.10 (5.3) | Internal wiring | | P |
| 3.10 (5.3.1) | Internal wiring of suitable size and type | | P |
| | Through wiring | | N/A |
| | - not delivered/ mounting instruction | | N/A |

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|-------------------|--|---------------------|------------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - factory assembled | | N/A |
| | - socket outlet loaded (A) | | N/A |
| | - temperatures | (see Annex 2) | N/A |
| | Green-yellow for protective earth only | | N/A |
| 3.10 (5.3.1.1) | Internal wiring connected directly to fixed wiring | | P |
| | Cross-sectional area (mm ²)..... | 0,5 mm ² | P |
| | Insulation thickness | 0.6 mm | P |
| | Extra insulation added where necessary | | P |
| 3.10 (5.3.1.2) | Internal wiring connected to fixed wiring via internal current-limiting device | | N/A |
| | Cross-sectional area (mm ²)..... | | N/A |
| 3.10 (5.3.1.3) | Double or reinforced insulation for class II | | P |
| 3.10 (5.3.1.4) | Conductors without insulation | | N/A |
| 3.10 (5.3.1.5) | SELV/PELV current-carrying parts | | N/A |
| 3.10 (5.3.1.6) | Insulation thickness other than PVC or rubber | | N/A |
| 3.10 (5.3.2) | Sharp edges etc. | | P |
| | No moving parts of switches etc. | | P |
| | Joints, raising/lowering devices | | N/A |
| | Telescopic tubes etc. | | N/A |
| | No twisting over 360° | | P |
| 3.10 (5.3.3) | Insulating bushings: | | N/A |
| | - suitable fixed | | N/A |
| | - material in bushings | | N/A |
| | - material not likely to deteriorate | | N/A |
| | - cables with protective sheath | | N/A |
| 3.10 (5.3.4) | Joints and junctions effectively insulated | | N/A |
| 3.10 (5.3.5) | Strain on internal wiring | | N/A |
| 3.10 (5.3.6) | Wire carriers | | N/A |
| 3.10 (5.3.7) | Wire ends not tinned | | N/A |
| | Wire ends tinned: no cold flow | | N/A |
| 3.10 (5.4) | Test to determine suitability of conductors having a reduced cross-sectional area | | N/A |

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

| | | | |
|-----------------|--|--|-----|
| 3.11 (8) | PROTECTION AGAINST ELECTRIC SHOCK | | P |
| 3.11 (8.2.1) | Live parts not accessible | | P |
| | Basic insulated parts not used on the outer surface without appropriate protection | | P |
| | Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires | | N/A |
| | Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires | | N/A |
| | Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements | | N/A |
| | Basic insulation only accessible under lamp or starter replacement | | N/A |
| | Protection in any position | | P |
| | Double-ended tungsten filament lamp | | N/A |
| | Insulation lacquer not reliable | | N/A |
| | Double-ended high pressure discharge lamp | | N/A |
| | Relevant warning according to 3.2.18 fitted to the luminaire | | N/A |
| 3.11 (8.2.2) | Portable luminaire adjusted in most unfavourable position | | N/A |
| 3.11 (8.2.3.a) | Class II luminaire: | | P |
| | - basic insulated metal parts not accessible during starter or lamp replacement | | P |
| | - basic insulation not accessible other than during starter or lamp replacement | | P |
| | - glass protective shields not used as supplementary insulation | | P |
| 3.11 (8.2.3.b) | BC lamp holder of metal in class I luminaires shall be connected to protective earth | | N/A |

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|-------------------|---|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 3.11 (8.2.3.c) | SELV circuits with exposed current carrying parts: | | N/A |
| | Ordinary luminaire: | | N/A |
| | - voltage under load/ no-load AC (V)..... : | | N/A |
| | - voltage under load/ no-load DC (V)..... : | | N/A |
| | - interrupted DC voltage (V) : | | N/A |
| | - touch current if applicable (mA) : | | N/A |
| | One conductive part insulated if required | | N/A |
| | Other than ordinary luminaire: | | N/A |
| | - voltage under load/ no-load AC (V)..... : | | N/A |
| | - voltage under load/ no-load DC (V)..... : | | N/A |
| | - interrupted DC voltage (V) : | | N/A |
| | Class III luminaire only for connection to SELV | | N/A |
| | Class III luminaire not provided with means for protective earthing | | N/A |
| 3.11 (8.2.3.d) | PELV circuits with exposed current carrying parts: | | N/A |
| | Ordinary luminaire: | | N/A |
| | - voltage under load/ no-load AC (V)..... : | | N/A |
| | - voltage under load/ no-load DC (V)..... : | | N/A |
| | Other than ordinary luminaire: | | N/A |
| | - voltage under load/ no-load AC (V)..... : | | N/A |
| | - voltage under load/ no-load DC (V)..... : | | N/A |
| | One pole insulated if required | | N/A |
| 3.11 (8.2.4) | Portable luminaire have protection independent of supporting surface | | N/A |
| 3.11 (8.2.5) | Compliance with the standard test finger or relevant probe | | P |
| 3.11 (8.2.6) | Covers reliably secured | | P |
| 3.11 (8.2.7) | Luminaire other than below with capacitor > 0,5 μ F not exceed 50 V 1 min after disconnection | | N/A |
| | Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection | | N/A |
| | Other luminaires with capacitor > 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection | | N/A |

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|--------------------|--|---------------------------------|----------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 3.12 (12) | ENDURANCE TEST AND THERMAL TEST | | P |
| 3.12 (-) | If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) as specified in 3.13 | | — |
| 3.12 (12.2) | Selection of lamps and ballasts | | — |
| | Lamp used according Annex B | (Lamp used see Annex 2) | — |
| | Control gear if separate and not supplied | (Control gear used see Annex 2) | — |
| 3.12 (12.3) | Endurance test: | | P |
| | a) mounting-position | as normal use | — |
| | b) test temperature (°C) | 40 + 10°C | — |
| | c) total duration (h) | 240 | — |
| | d) supply voltage (V) | 264 | — |
| | d) if not equipped with control gear, constant voltage/current (V) or (A) | N/A | — |
| 3.12 (12.3.1d) | d) Class III luminaires powered via information technology communication cable: | | N/A |
| | - voltage under normal operation (V)..... | N/A | — |
| | - voltage under abnormal operation (V)..... | N/A | — |
| | e) luminaire ceases to operate | N/A | — |
| | f) luminaire with constant light output function | | N/A |
| 3.12 (12.3.2) | After endurance test: | | P |
| | - no part unserviceable | | P |
| | - luminaire not unsafe | | P |
| | - no damage to track system | | N/A |
| | - marking legible | | P |
| | - no cracks, deformation etc. | | P |
| 3.12 (12.4) | Thermal test (normal operation) | (see Annex 2) | P |
| 3.12 (12.5) | Thermal test (abnormal operation) | (see Annex 2) | N/A |
| 3.12 (12.6) | Thermal test (failed lamp control gear condition): | | N/A |
| 3.12 (12.6.1) | Through wiring or looping-in wiring loaded by a current of (A) | N/A | — |
| | - case of abnormal conditions | N/A | — |
| | - electronic lamp control gear | | N/A |
| | - measured winding temperature (°C): at 1,1 Un | N/A | — |
| | - measured mounting surface temperature (°C) at 1,1 Un | | N/A |

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

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|--------------------|---|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Ball-pressure test | See Table 3.15 (13.2.1) | N/A |
| 3.12 (12.7.1.3) | Luminaire with short circuit proof transformers ≤ 10 VA | | N/A |
| | - case of abnormal conditions | N/A | — |
| | - Components retained in place after the test | | N/A |
| | - Test with standard test finger after the test | | N/A |
| 3.12 (12.7.2) | Luminaire with temperature sensing control | | N/A |
| | - thermal link..... | Yes <input type="checkbox"/> No <input type="checkbox"/> | — |
| | - manual reset cut-out | Yes <input type="checkbox"/> No <input type="checkbox"/> | — |
| | - auto reset cut-out | Yes <input type="checkbox"/> No <input type="checkbox"/> | — |
| | - case of abnormal conditions | N/A | — |
| | - highest measured temperature of fixing point/ exposed part (°C): | N/A | — |
| | Ball-pressure test: | See Table 3.15 (13.2.1) | N/A |
| 3.12.1 (-) | Temperature reduction if for outdoor use only | | P |
| 3.12.2 (-) | (See above) | | — |
| 3.12.3 (-) | Glass covers used within the thermal limits declared by the glass manufacturer | | N/A |

| | | | |
|-----------------|---|--------------------------|----------|
| 3.13 (9) | RESISTANCE TO DUST AND MOISTURE | | P |
| 3.13.1 (-) | If IP > IP 20 the order of tests as specified in clause 3.12 | | P |
| 3.13 (9.2) | Tests for ingress of dust, solid objects and moisture: | | P |
| | - classification according to IP..... | IP66 | — |
| | - mounting position during test | down-lighting | — |
| | - fixing screws tightened; torque (Nm) | See mounting instruction | — |
| | - tests according to clauses..... | 9.2.2, 9.2.7 | — |
| | - electric strength test afterwards | | P |
| | a) no deposit in dust-proof luminaire | | N/A |
| | b) no talcum in dust-tight luminaire | IP6X | P |
| | c) no trace of water on current-carrying parts or on insulation where it could become a hazard | IPX6 | P |
| | c.1) For luminaires without drain holes – no water entry | IPX6 | P |
| | 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 | | P |
| 3.13 (9.3) | Humidity test 48 h | | P |

| 3.14 (10) | INSULATION RESISTANCE AND ELECTRIC STRENGTH | | P |
|---------------|---|---------|-----|
| 3.14 (10.2.1) | Insulation resistance test | | P |
| | Cable or cord covered by metal foil or replaced by a metal rod of mm Ø | 12 | — |
| | Insulation resistance (MΩ) | > 10 MΩ | — |
| | SELV/PELV: | | N/A |
| | - between current-carrying parts of different polarity : | | N/A |
| | - between current-carrying parts and mounting surface..... : | | N/A |
| | - between current-carrying parts and metal parts of the luminaire..... : | | N/A |
| | - between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... : | | N/A |
| | - Insulation bushings as described in Section 5 | | N/A |
| | Other than SELV/PELV: | | P |
| | - between live parts of different polarity | > 10 MΩ | P |
| | - between live parts and mounting surface | > 10 MΩ | P |
| | - between live parts and metal parts | > 10 MΩ | P |
| | - between live parts of different polarity through action of a switch..... : | | N/A |
| | - between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... : | | N/A |
| | - Insulation bushings as described in Section 5 | > 10 MΩ | P |
| 3.14 (10.2.2) | Electric strength test | | P |

| IEC 60598-2-3 | | | |
|---------------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Dummy lamp | | N/A |
| | Luminaires with ignitors after 24 h test | | N/A |
| | Luminaires with manual ignitors | | N/A |
| | Test voltage (V) | See below | P |
| | SELV/PELV: | | N/A |
| | - between current-carrying parts of different polarity : | | N/A |
| | - between current-carrying parts and mounting surface | | N/A |
| | - between current-carrying parts and metal parts of the luminaire | | N/A |
| | - between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts | | N/A |
| | - Insulation bushings as described in Section 5 | | N/A |
| | Other than SELV/PELV: | | P |
| | - between live parts of different polarity | 1480 V | P |
| | - between live parts and mounting surface | 2960 V | P |
| | - between live parts and metal parts | 2960 V | P |
| | - between live parts of different polarity through action of a switch | | N/A |
| | - between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts | | N/A |
| | - Insulation bushings as described in Section 5 | 1480 V | P |
| 3.14 (10.3) | Touch current (mA)..... | 0,37 mA | P |
| | Protective conductor current (mA)..... | | N/A |

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

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

| 3.7 (11.2) | TABLE I: Creepage distances and clearances | | | | | | P |
|---|--|--------------------|--------------------------------|--------|--|----------|--------|
| | Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages | | | | | | P |
| | Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2* | | | | | | P |
| | Insulation type ** | Measured clearance | Required | | Measured creepage | Required | |
| | | | clearance | *Table | | creepage | *Table |
| Distance 1: | R | 7,5 | 220V - 4,4 mm 240V - 4,8 mm | 11.1.B | 13,5 | 3mm | 11.1.A |
| Working voltage (V) | | | | | 220-240 | | — |
| PTI | | | | | < 600 <input checked="" type="checkbox"/> ≥ 600 <input type="checkbox"/> | | — |
| Pulse voltage or U_p if applicable (kV) | | | | | | | — |
| Supplementary information: | | | | | | | |
| Distance 2: | | | | | | | |
| Working voltage (V) | | | | | | | — |
| PTI | | | | | < 600 <input type="checkbox"/> ≥ 600 <input type="checkbox"/> | | — |
| Pulse voltage or U_p if applicable (kV) | | | | | | | — |
| Supplementary information: | | | | | | | |
| Distance 3: | | | | | | | |
| Working voltage (V) | | | | | | | — |
| PTI | | | | | < 600 <input type="checkbox"/> ≥ 600 <input type="checkbox"/> | | — |
| Pulse voltage or U_p if applicable (kV) | | | | | | | — |
| Supplementary information: | | | | | | | |

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

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

| 3.7 (11.2) | TABLE II: Creepage distances and clearances | | | | | | N/A |
|--|---|--------------------|-----------|--------|---|----------|--------|
| Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages | | | | | | | |
| Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2 | | | | | | | |
| Distances | Insulation type ** | Measured clearance | Required | | Measured creepage | Required | |
| | | | clearance | *Table | | creepage | *Table |
| Distance 1: | | | | | | | |
| Working voltage (V) | | | | | | | — |
| Frequency if applicable (kHz) | | | | | | | — |
| PTI | | | | | < 600 <input type="checkbox"/> ≥ 600 <input type="checkbox"/> | | — |
| 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 <input type="checkbox"/> ≥ 600 <input type="checkbox"/> | | — |
| 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 <input type="checkbox"/> ≥ 600 <input type="checkbox"/> | | — |
| Peak value of the working voltage \hat{U}_{out} if applicable (kV) | | | | | | | — |
| Supplementary information: | | | | | | | |

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

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

| 3.15 (13.2.1) | TABLE: Ball Pressure Test of Thermoplastics | | | N/A |
|--|---|-----------------------|--------------------------|-----|
| Allowed impression diameter (mm) | 2 | | | — |
| Object/ Part No./ Material | Manufacturer/ trademark | Test temperature (°C) | Impression diameter (mm) | |
| | | | | |
| | | | | |
| | | | | |
| Supplementary information: | | | | |

| 3.15 (13.3.1) | TABLE: Needle-flame test | | | | P |
|----------------------------|--------------------------|---|------------------------------------|------------------------------|---------|
| Object/ Part No./ Material | Manufacturer/ trademark | Duration of application of test flame (ta); (s) | Ignition of specified layer Yes/No | Duration of burning (tb) (s) | Verdict |
| Connector | BJB (46.412) | 10 | No | - | P |
| | | | | | |
| | | | | | |
| Supplementary information: | | | | | |

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

| 3.15 (13.4) | TABLE: Proof tracking test | | | N/A |
|----------------------------|----------------------------|--|--|---------|
| Test voltage PTI | 175 V | | | — |
| Object/ Part No./ Material | Manufacturer/ trademark | Withstand 50 drops without failure on three places or on three specimens | | Verdict |
| | | | | |
| Supplementary information: | | | | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|--|--|-------------------------|--|-------------------|----------|--|---|
| Object / part No. | Code | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| LED Module | A | LUG | ML21XXYY.WQQQ.UUV (LUXEON 5050 modules) (choice sheet below) | Tc -40°C to +85°C | EN 62031 | ENEC | |
| <p>ML21XXYY.WQQQ.UUV</p> <p>1 2 3 4 5 6 7 8</p> <p>Designations used on the marking of LED boards:</p> <p>1. ML - PCB designation (ML – LED module):</p> <p>2. 21 - Year of the project:</p> <p>3. XXX - Number of the project: <u>Luxeon modules</u>: 660, 661, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693</p> <p>4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99</p> <p>5. W - Light color: W: White</p> <p>6. QQQ - CRI and CCT: 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K</p> <p>7. UU - Assembly variant (selected components not mounted): 01...99</p> <p>8. V - NTC Thermistor type: A - none B - 10K C - 47K</p> | | | | | | | |
| LED Module | B | LUG | ML21XXYY.WQQQ.UUV (CREE XPG3 modules) (choice sheet below) | Tc -40°C to +85°C | EN 62031 | Tested and accepted by PREDOM Division TR No. B10-3/089/B/22 | |
| <p>ML21XXYY.WQQQ.UUV</p> <p>1 2 3 4 5 6 7 8</p> <p>Designations used on the marking of LED boards:</p> <p>1. ML - PCB designation (ML – LED module):</p> <p>2. 21 - Year of the project:</p> <p>3. XXX - Number of the project: <u>Cree modules</u>: 600, 601, 610, 611</p> <p>4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99</p> <p>5. W - Light color: W: White</p> <p>6. QQQ - CRI and CCT: 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K</p> <p>7. UU - Assembly variant (selected components not mounted): 01...99</p> <p>8. V - NTC Thermistor type: A - none B - 10K C - 47K</p> | | | | | | | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|-------------------|--|--------------------------|--|--|-----------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer / trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | OSRAM | OT 165/170-240/1A0 4DIMLT2 E | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 60/170-240/1A0 4DIMLT2 E | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT180W/UNV/800C/2DIMLT 2/P6 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT100W/UNV/800C/2DIMLT 2/P6 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 110/170...240/1A0 1DIMLT2 G1 CE | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 20/170-240/1A0 1DIM LT2 G1 CE | 220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 75/170...240/1A0 1DIMLT2 G1 CE | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Philips Xi LP 150W 0.3-1.0A S1 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 165W 0.3-1.0A S1 230V C170 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | Tridonic LCA 120W 300-1050mA | 220..240V, 50-60Hz, ta= -30...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | Tridonic LCA 75W 250-750mA one | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | Tridonic LCA 120W 350-1050mA o | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | Tridonic LCA 160W 350-1050mA o | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT DX 40/220...240/1A0 DIMA LT2 E | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT DX 75/220...240/1A0 DIMA LT2 E | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT DX 110/220...240/1A0 DIMA LT2 E | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 20/170...240/1A0 4DIMLT2 G2 CE | 220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 40/170...240/1A0 4DIMLT2 G2 CE | 220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 75/170...240/1A0 4DIMLT2 G2 CE | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|-------------------|--|-------------------------|---|--|-----------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | OSRAM | OT 110/170...240/1A0 4DIMLT2 G2 CE | 220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 20/170...240/1A0 1DIMLT2 G1 CE | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 40/170...240/1A0 1DIMLT2 G1 CE | 220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 40/120...277/1A0 4DIMLT2 E | 220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 60/170...240/1A0 4DIMLT2 E | 220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 90/170...240/1A0 4DIMLT2 E | 220..240V, 50-60Hz, ta= -40...55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 165/170...240/1A0 4DIMLT2 E | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 50/120...277/800 2DIMLT2 P | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 50/120...277/1A2 2DIMLT2 P | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 100/120...277/800 2DIMLT2 P | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 110/120...277/1A4 2DIMLT2 P | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 60/220...240/1A4 1DIMA P7 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 100/220...240/1A4 1DIMA P7 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 150/220...240/1A4 1DIMA P7 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 40W 0.7A Prog+ GL-J sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 75W 0.35-0.70A GL Prog+ sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 75W 0.1-1.05A Prog GL F sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 100W 0.7A Prog+ GL-Z sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 150W 0.1-1.05A Prog+ GL F sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 300W 1.5A Prog+ GL-R sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi BP 12W 0.1-0.5A S 230V C100 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi BP 22W 0.2-0.7A S 230V C123 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi BP 40W 0.2-0.7A S 230V C123 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi BP 40W 0.3-1.0A S 230V C123 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 22W 0.2-0.7A S1 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|-------------------|--|--------------------------|--------------------------------------|--|-----------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer / trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | Philips | Xi LP 22W 0.3-1.0A S1 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 40W 0.2-0.7A S1 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 40W 0.3-1.0A S1 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.2-0.7A S1 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.3-1.0A S1 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.5-1.5A S1 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 110W 0.2-0.7A S1 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 110W 0.3-1.0A S1 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 165W 0.2-0.7A S1 230V C170 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 165W 0.5-1.5A S1 230V C170 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 22W 0.2-0.7A S1 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 22W 0.3-1.0A S1 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 40W 0.2-0.7A S1 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 40W 0.2-0.7A SL 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 40W 0.3-1.0A S1 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 40W 0.3-1.0A SL 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 40W 0.2-0.7A SN 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.2-0.7A S1 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.2-0.7A SL 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.3-1.0A S1 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.3-1.0A SL 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.2-0.7A SN 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 75W 0.5-1.5A S1 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 150W 0.2-0.7A S1 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 150W 0.2-0.7A SL 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|-------------------|--|-------------------------|---|--|-----------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | Philips | Xi LP 150W 0.3-1.0A SL 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 150W 0.5-1.5A S1 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 150W 0.2-0.7A SN 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 70W 0.3-1.0A NLD C150 230V sXt | 220..240V, 50-60Hz, ta= -30...+60°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 75W 0.5-1.5A SNLDAE 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 110W 0.3-1.0A NLD C150 230V sXt | 220..240V, 50-60Hz, ta= -30...+60°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 165W 0.2-0.7A SNLDAE 230V C170 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 330W 0.2-0.75A SNDAE 230V C240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 40W 0.2-7.0A SNLDAE 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|-------------------|--|--------------------------|--|--|-----------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer / trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | Philips | Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 100W 2.1-4.2A AOC 230V I220 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 150W 2.5-4.9A AOC 230V I220 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 200W 2.8-5.6A AOC 230V I250 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 100W 0.3-1.05A S1 230V I175 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 150W 0.3-1.05A S1 230V I175 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 220W 0.3-1.05A S1 230V I230 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xi LP 220W 0.5-1.5A S1 230V I230 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium Dim 35W 0.7A 1-10V TWE I175 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium Dim 100W 0.7A 1-10V TWE I220 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium Dim 150W 0.7A 1-10V TWE I220 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 75W 0.7A TWE I175 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 150W 0.7A TWE I220 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 75W 1.05A 1-10V 230V C165 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 75W 0.70A 1-10V 230V C165 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 150W 0.70A 1-10V 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium Dim 75W 0.70A 1-10V 230V I220 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium Dim 150W 0.70A 1-10V 230V I220 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|-------------------|--|-------------------------|---|---|-----------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | Philips | Xitanium 75W 1-10V 230V C165 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Philips | Xitanium 150W 1.05A 1-10V 230V S240 sXt | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 14/100-500/38 NF C ADV3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 24/200-1050/39 NF C ADV3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 40/200-1050/64 NF C ADV3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 60/200-1050/100 NF C ADV3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 90/200-1050/165 NF C ADV3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 135/200-1050/220 NF C ADV3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 200/200-1050/355 NF C ADV3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 14/100-500/38 o4a NF C EXC3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 24/200-1050/39 o4a NF C EXC3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 40/200-1050/64 o4a NF C EXC3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 60/200-1050/100 o4a NF C EXC3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=95°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 90/200-1050/165 o4a NF C EXC3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 135/200-1050/220 o4a NF C EXC3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 200/200-1050/355 o4a NF C EXC3 | 220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 100/1050/95 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 100/1400/71 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 100/500/200 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 100/700/143 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 150/1050/142 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 150/1400/107 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 150/500/300 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 150/700/214 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 200/1050/190 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|-------------------|--|--------------------------|---|--|-----------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer / trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | Tridonic | LCO 200/1400/142 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 200/700/285 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 75/1050/72 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 75/1400/53 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 75/500/150 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 75/700/108 fixC L SNC2 | 220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 135W 200-1050mA 220V pD+ NFC C PRE3 | 220..240V, 50-60Hz, ta= -40...+700C, tc max=950C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Tridonic | LCO 90W 200-1050mA 165V pD+ NFC C PRE3 | 220..240V, 50-60Hz, ta= -40...+700C, tc max=850C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 100/UNV/1A0 2DIM P7 | 120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 150/UNV/1A0 2DIM P7 | 120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 100/ 220-240/1A4 2DIM P7 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | OT 150/ 220-240/1A4 2DIM P7 | 220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EBS-040S105BT2 | 176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EBS-080S070BT2 | 176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EBS-080S105BT2 | 176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EBS-040S070BT2 | 176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EUM-075S | 90..305V, 50-60Hz, ta= -40...+80°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EUM - 100S | 100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EUM - 150S | 100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Inventronics | EUM - 200S | 100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|--|--|-------------------------|---------------------------------|---|------------------------------------|-------------------------------------|---|
| Object / part No. | Code | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Control gear | A | Inventronics | EUM – 240S | 100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | IT DALI 20/220...240/1A0 E | 220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =75 °C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | IT DALI 40/220...240/1A0 E | 220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C | EN 61347-2-13, EN 61347-1 | ENEC | |
| Control gear | A | OSRAM | IT DALI 75/220...240/1A0 E | 220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =100 °C | EN 61347-2-13 | ENEC | |
| Control gear | A | OSRAM | IT DALI 110/220...240/1A0 E | 220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =90 °C | EN 61347-2-13, EN 61347-1 | ENEC | |
| Control gear | A | OSRAM | IT DALI 150/220...240/1A0 E | 220...240, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | LACROIX | DL-PAK 70 | 220...240 50/60Hz, Ta =-25...+60 °C, Tc max =90 °C | EN 61347-2-13, EN 61347-1 | ENEC | |
| Control gear | A | DELTA | EUCI-040105GLA | 220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C | EN 61347-2-13, EN 61347-1 | ENEC | |
| Control gear | A | DELTA | EUCI-075105GLA | 220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =85 °C | EN 61347-2-13, EN 61347-1 | ENEC | |
| Control gear | A | DELTA | EUCI-130105GLA | 220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =85 °C | EN 61347-2-13, EN 61347-1 | ENEC | |
| Control gear | A | DELTA | EUCI-170105GLA | 220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =90 °C | EN 61347-2-13, EN 61347-1 | ENEC | |
| Control gear | A | Osram | OT 75 /220...240/1A0 1DIM G2 CE | 220...240V, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Delta | EUCI-022105GLB | 220...240V, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Control gear | A | Delta | EUCI-040105GLB | 198...264V, 50/60Hz, Ta =-40...+55 °C, Tc max =90 °C | EN 61347-1 EN 61347-2-13 | ENEC | |
| Wires LED | B | Mrowiec | H05V-U | 500 V; 0,5 mm2 | EN 50525 | BBJ | |
| Internal wires | B | Mrowiec | H05V-K | 500 V; 0,5 mm2 | EN 50525 | BBJ | |
| Internal wires | B | E.M.C. Colosio | RD10-B | 300/500 V; 0,5 mm2 | EN 50525 | IMQ | |
| Silicon Fiberglass Insulating Sleeving | B | Isolcavi | GVES 1500 | min. 1500 Volt, Temp -60...+250°C | IEC 60684-3-400 IEC 60684-3-402 | UL | |
| Terminal block | B | Stucchi | 651/652 | 16A; 400 V | EN-61984 | IMQ | |
| Terminal block | B | Stucchi | 661/662 | 6A; 400 V | EN-61984 | IMQ | |
| Connector | B | BJB | 48.281 | 16A; 400 V | EN 60998-2-2 | VDE | |
| Connector | B | BJB | 46.412 | 16A; 450 V | EN 60998-2-2 | VDE | |
| Connector | B | BJB | 46.413 | 16A; 450 V | EN 60998-2-2 | VDE | |

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

| ANNEX 1 | TABLE: Critical components information | | | | | | P |
|--------------------------|--|---------------------------------|---|---|--|---|---|
| Object / part No. | Code | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹⁾ | |
| Connector | B | BJB | 46.414 | 16A; 450 V | EN 60998-2-2 | VDE | |
| Connector | B | BJB | 46.415 | 16A; 450 V | EN 60998-2-2 | VDE | |
| Connector | B | BJB | 46.455 | 16A; 450 V | EN 60998-2-2 | VDE | |
| Connector | B | WAGO | 224-101 | 24A; 400 V | EN 60998-2-2 | VDE | |
| Connector | B | WAGO | 224-112 | 24A; 400 V | EN 60998-2-2 | VDE | |
| Terminal block | B | Wieland | GST1814S | 20A; 400 V | EN 61535 | VDE | |
| Terminal block | B | Wieland | GST 15I2 | 16A; 250 V | EN 61535 | VDE | |
| Connector | B | EMC Colosio | M26B | 17A; 300 V | EN 60598-1 | IMQ | |
| Knife switch (connector) | B | Longran | M29 M29 mini | 16A; 450 V 16A; 250 V | EN 61984 EN 60998-2-1 EN 60998-1 | TUV | |
| Connector | B | LONGJOING | JL-700 | 1.5A, 30V | EN 61984 | DEKRA | |
| Connector system | B | Tyco Electronics Corp. | 2213795, 2213831, 2213837, 2213858, 2328823, 2329013 | 30V AC/DC 50/60Hz, 1.5A | EN 61984 | UL | |
| Connector system | B | Tyco Electronics Corp. | 1-2213871-1, 1-2213871-2, 2213871-1, 2213871-2, X-2213362-X, X-2213627-X | t= -40...+80°C, tc max=80°C 150/240/300VAC, 50/60Hz, 15/7.5/6 A, Signal Contacts: 30VDC, 1.5A | EN 61984 | UL | |
| Connector system | B | LUG | iBlock | 230V, 50Hz, Ta = -40°C do 70°C | EN61347-2-11 | Tested and accepted by PREDOM Division TR No. Z7-2/016/B/20 | |
| Connector system | B | LONGJOING Nema | JL-240XA | t= -40...+700C, 480VAC, 50/60Hz, Signal Contacts: 30VDC, 0,25A | EN 61984 | DEKRA | |
| Luminaire protection | B | Vossloh schwabe | SP / 230 / 10K | 220-240V, 50/60Hz, Ta = -30°C do 80°C | EN 61643-11 | VDE | |
| Luminaire protection | B | Inventronics | PU-20KX10KTXX | 320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C | EN 61643-11, EN 61643-21 | CE, VDE | |
| Luminaire protection | B | Inventronics | PU-20Kx10KBx | 320Vac, 15A, 47-63Hz, Ta = -40°C do 85°C | EN 61643-11, EN 61643-21 | CE, VDE | |
| Luminaire protection | B | Inventronics | PU-10Kx05KBx | 320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C | EN 61643-11, EN 61643-21 | CE, VDE | |
| Luminaire protection | B | Linoya Electronic Technology | LYSPD10D | 300Vac, 50Hz, IP67 | EN 61643-11 | TUV | |

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

- A - The component is replaceable with another one, also certified, with equivalent characteristics
- B - The component is replaceable if authorised by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component

| IEC 60598-2-3 | | | | | | | |
|---|--|------------------------------------|--------|--------|-------|---------------------|----------|
| Clause | Requirement + Test | Result - Remark | | | | Verdict | |
| ANNEX 2 | TABLE: Thermal tests of Section 12 | | | | | | P |
| | Type reference | 130782.7LR7B27S950.201.B.Z. V | | | | — | |
| | Lamp used..... | ML2167232.W727.01A | | | | — | |
| | Lamp control gear used | OT DX 75/220-240/1A0 DIMA LT2 E | | | | — | |
| | Mounting position of luminaire | as normal use | | | | — | |
| | Supply wattage (W) | 74,6 | | | | — | |
| | Supply current (A) | 0,329 | | | | — | |
| | Temperatures in test 1 - 4 below are corrected for ta (°C) | 40 °C | | | | — | |
| | - abnormal operating mode | N/A | | | | — | |
| 3.12 (12.4) | - test 1: rated voltage | N/A | | | | — | |
| | - 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 | N/A | | | | — | |
| | Through wiring or looping-in wiring loaded by a current of A during the test | N/A | | | | — | |
| 3.12 (12.5) | - test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage | N/A | | | | — | |
| Temperature measurements (°C) | | | | | | | |
| Part | Ambient | Cl. 12.4 – normal | | | | Cl. 12.5 – abnormal | |
| | | test 1 | test 2 | test 3 | limit | test 4 | limit |
| LED Module ML2167232.W727.01A | 40 | N/A | 77,8 | N/A | 85 | N/A | N/A |
| Control gear OT DX 75/220-240/1A0 DIMA LT2 E | 40 | N/A | 78,2 | N/A | 85 | N/A | N/A |
| Connector 46.412 | 40 | N/A | 70,3 | N/A | 85 | N/A | N/A |
| Luminaire protection SP / 230 / 10K | 40 | N/A | 71 | N/A | 80 | N/A | N/A |
| Internal wires H05V-K | 40 | N/A | 74,4 | N/A | 90 | N/A | N/A |
| Supplementary information: The luminaire has been tested on 50 and 60 Hz. The table chose the worst case. | | | | | | | |

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

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

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

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

Photos

130782.7LR7B27S950.201.B.Z.V

