


Test Verification of Conformity

Verification Number: 230912103GZU-VOC002

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the regulation(s) listed on this verification at the time the tests were carried out. Other standards and Regulations may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark regulations are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Ledworks SRL Via Tortona, 37, 20144, Milan, Italy
Product Description:	LED Lighting Chains
Models/Type References:	Refer to appendix for detail information
Ratings & Principle Characteristics:	Refer to appendix for detail information
Brand Name(s):	--
Standard(s)/Directive(s):	EN IEC 55015:2019+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021 EN 61547:2009 ETSI EN 300 328 V2.2.2 (2019-07) ETSI EN 301 489-1 V2.2.3(2019-11) ETSI EN 301 489-17 V3.2.4(2020-09) EN 62479:2010 EN IEC 62311:2020
Verification Issuing Office Name & Address:	Radio Equipment Regulations 2017- CHAPTER 1 6(1)(a)(health), 6(1)(b) & 6(2) Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	31 August 2023 to 05 September 2023
Test Report Number(s):	190425162GZU-001, 002, 003, 004, 005, 006 Amendment 4

Additional information in Appendix.

Signature 

Name: Sky Zhu
Position: Supervisor
Date: 11 October 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230912103GZU-VOC002.

Models/Type References:

TWS100STP-BEU; TWS100STP-BUK; TWS100STP-BFR; TWS150STP-BEU;
TWS150STP-BUK; TWS150STP-BUS; TWS150STP-BAU; TWS150STP-BFR;
TWS250STP-BEU; TWS250STP-BUK; TWS250STP-BUS; TWS250STP-BAU;
TWS250STP-BFR; TWS400STP-BEU; TWS400STP-BUK; TWS400STP-BUS;
TWS400STP-BAU; TWS400STP-BFR; TWS600STP-BEU; TWS600STP-BUK;
TWS600STP-BFR; TWS250SPP-BEU; TWS250SPP-BUK; TWS250SPP-BUS;
TWS250SPP-BAU; TWS250SPP-BFR; TWS250SPP-TFR; TWS250SPP-TEU;
TWS250SPP-TUK; TWS250SPP-TUS; TWS250SPP-TAU; TWS400SPP-BEU;
TWS400SPP-BUK; TWS400SPP-TFR; TWS250GOP-BEU; TWS250GOP-BUK;
TWS250GOP-BUS; TWS250GOP-BAU; TWS250GOP-TFR; TWI190STP-TAU EU;
TWS400GOP-BUK; TWS400GOP-TFR; TWI190STP-TEU; TWI190STP-TUK;
TWI190STP-TUS; TWI190STP-TAU; TWI190STP-TFR; TWI190SPP-TEU;
TWI190SPP-TUK; TWI190SPP-TUS; TWI190SPP-TAU; TWI190SPP-TFR;
TWI190GOP-TEU; TWI190GOP-TUK; TWI190GOP-TUS; TWI190GOP-TAU;
TWI190GOP-TFR; TWF020STP-BEU; TWF020STP-BUK; TWF020STP-BUS;
TWF020STP-BAU; TWF020STP-BFR; TWF020ADP-BEU; TWF020ADP-BUS;
TWF020ADP-BFR; TWW210SPP-TEU; TWW210SPP-TUK; TWW210SPP-TFR;
TWB200STP-WEU; TWB200STP-WUK; TWB200STP-WFR; TWB200STP-WAU;
TWC400STP-BEU; TWC400STP-BUK; TWC400STP-BFR; TWC400GOP-BEU;
TWC400GOP-BUK; TWC400GOP-BFR; TWT250STP-BEU; TWT250STP-BUK;
TWT250STP-BFR; TWT250STP-BAU; TWT250GOP-BEU; TWT250GOP-BUK;
TWT250GOP-BFR; TWT250GOP-BAU; TWT400SPP-BEU; TWT400SPP-BUK;
TWT400SPP-BFR; TWT400SPP-BAU; TWT400STP-BEU; TWT400STP-BUK;
TWT400STP-BFR; TWT400STP-BAU; TWT400GOP-BEU; TWT400GOP-BUK;
TWT400GOP-BFR; TWT400GOP-BAU; TWT500STP-BEU; TWT500STP-BUK;
TWT500STP-BFR; TWT500STP-BAU; TWT500GOP-BEU; TWT500GOP-BUK;
TWT500GOP-BFR; TWT500GOP-BAU; TWR050SPP-BEU; TWR050SPP-BUK;
TWR050SPP-BFR; TWG050SPP-BEU; TWG050SPP-BUK; TWG050SPP-BFR;
TWS100STP-BAU; TWS600STP-BAU; TWS400SPP-BAU; TWS400SPP-TAU;
TWS400GOP-BAU; TWW210SPP-TAU; TWC400STP-BAU; TWC400GOP-BAU;
TWR050SPP-BAU; TWG050SPP-BAU; TWS050STP-GEU; TWS050STP-GUK;
TWS075STP-BEU; TWS075STP-BUK; TWS100STP-GEU; TWS100STP-GUK;
TWS100STP-TEU; TWS100STP-TUK; TWS150STP-GEU; TWS150STP-GUK;
TWS175STP-BEU; TWS175STP-BUK; TWS175STP-GEU; TWS175STP-GUK;
TWS200STP-BEU; TWS200STP-BUK; TWS200STP-GEU; TWS200STP-GUK;
TWS250STP-GEU; TWS250STP-GUK; TWS250STP-TEU; TWS250STP-TUK;
TWS400STP-GEU; TWS400STP-GUK; TWS400STP-TEU; TWS400STP-TUK;
TWS600STP-GEU; TWS600STP-GUK; TWS600STP-TEU; TWS600STP-TUK;
TWS100SPP-BEU; TWS100SPP-BUK; TWS100SPP-GEU; TWS100SPP-GUK;
TWS175SPP-BEU; TWS175SPP-BUK; TWS175SPP-GEU; TWS175SPP-GUK;
TWS250SPP-GEU; TWS250SPP-GUK; TWS400SPP-GEU; TWS400SPP-GUK;
TWS600SPP-BEU; TWS600SPP-BUK; TWS600SPP-GEU; TWS600SPP-GUK;
TWS250GOP-GEU; TWS250GOP-GUK; TWS250GOP-TEU; TWS250GOP-TUK;

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230912103GZU-VOC002.

Models/Type References:

TWS400GOP-GEU; TWS400GOP-GUK; TWS400GOP-TEU; TWS400GOP-TUK;
 TWI190STP-BEU; TWI190STP-BUK; TWI190SPP-BEU; TWI190SPP-BUK;
 TWI190SPPRU-TEU; TWI190SPPRU-TUK; TWI380SPP-TEU; TWI380SPP-TUK;
 TWI190GOP-BEU; TWI190GOP-BUK; TWW210STP-TEU; TWW210STP-TUK;
 TWW210SPP-BEU; TWW210SPP-BUK; TWW400SPP-TEU; TWW400SPP-TUK;
 TWC400STP-GEU; TWC400STP-GUK; TWC400STP-TEU; TWC400STP-BEU;
 TWC400GOP-GEU; TWC400GOP-GUK; TWC400SPP-BEU; TWC400SPP-BUK;
 TWC400SPP-GEU; TWC400SPP-GUK; TWR050SPP-GEU; TWR050SPP-GUK;
 TWG050SPP-GEU; TWG050SPP-GUK; TWF040STP-BEU; TWF040STP-BUK;
 TWF020GOP-BEU; TWF020GOP-BUK; TWF040GOP-BEU; TWF040GOP-BUK;
 TWWT050SPP-BEU; TWWT050SPP-BUK; TWD200STP-BEU; TWD200STP-BUK;
 TWD200STP-TEU; TWD200STP-TUK; TWD400STP-BEU; TWD400STP-BUK;
 TWD400STP-TEU; TWD400STP-TUK; TWT400STP-GEU; TWT400STP-GUK;
 TWT400SPP-GEU; TWT400SPP-GEK; TWT500STP-GEU; TWT500STP-GUK;
 TWT500GOP-GEU; TWT500GOP-GUK; TWS050STP-GAU; TWS100STP-GAU;
 TWS075STP-BAU; TWS100STP-TAU; TWS150STP-GAU; TWS250STP-GAU;
 TWS600STP-TAU; TWS250SPP-GAU; TWS400GOP-TAU; TWW210SPP-BAU;
 TWS200STP-BAU; TWS400STP-TAU; TWS175SPP-BAU; TWS600SPP-GAU;
 TWS250GOP-TAU; TWI190SPPRU-TAU; TWI190GOP-BAU; TWC400SPP-BAU;
 TWR050SPP-GAU; TWWT050SPP-BAU; TWD200STP-TAU; TWT500STP-GAU;
 TWS175STP-BAU; TWS250STP-TAU; TWS100SPP-BAU; TWS400SPP-GAU;
 TWF040STP-BAU; TWD400STP-TAU; TWT400SPP-GAU; TWS175STP-GAU;
 TWS400STP-GAU; TWS100SPP-GAU; TWS600SPP-BAU; TWI190SPP-BAU;
 TWC400STP-GAU; TWC400GOP-GAU; TWF040GOP-BAU; TWI190STP-BAU;
 TWW400SPP-TAU; TWC400STP-TAU; TWF020GOP-BAU; TWT400STP-GAU;
 TWS200STP-GAU; TWS600STP-GAU; TWS175SPP-GAU; TWS250GOP-GAU;
 TWS400GOP-GAU; TWI380SPP-TAU; TWW210STP-TAU; TWC400STP-GAU;
 TWC400SPP-GAU; TWG050SPP-GAU; TWD200STP-BAU; TWD400STP-BAU;
 TWT500GOP-GAU; TWR050STP-GAU; TWR050STP-GEU, TWR050STP-GUK.
 Remark: the suffix of EU refers to Europe plug for EU market, UK refers to UK
 plug for UK market; US refers to US plug for US market; FR refers to French plug
 for French market, AU refers to Australia plug for AU market.

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230912103GZU-VOC002.

Ratings & Principle Characteristics:

For drivers input: 220-240 V~ or 100-240 V~; 50/60 Hz; Class II; SELV; independent; TA: 25 °C for AU market models.

For luminaire body input of models TWF020STP-BEU; TWF020STP-BUK; TWF020STP-BUS; TWF020STP-BAU; TWF020STP-BFR; TWF020ADP-BEU; TWF020ADP-BUS; TWF020ADP-BFR; TWF020GOP-BEU; TWF020GOP-BUK; TWF020GOP-BAU: 24 VDC; Class III; IP44; 20 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWF040STP-BEU; TWF040STP-BUK; TWF040GOP-BEU; TWF040GOP-BUK; TWF040STP-BAU; TWF040GOP-BAU: 24 VDC; Class III; IP44; 40 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWR050SPP-BEU; TWR050SPP-BUK; TWR050SPP-BFR; TWR050SPP-BAU; TWG050SPP-BEU; TWG050SPP-BUK; TWG050SPP-BFR; TWG050SPP-BAU; TWS050STP-GEU; TWS050STP-GUK; TWR050SPP-GEU; TWR050SPP-GUK; TWG050SPP-GEU; TWG050SPP-GUK; TWWT050SPP-BEU; TWWT050SPP-BUK; TWS050STP-GAU; TWR050SPP-GAU; TWWT050SPP-BAU; TWG050SPP-GAU; TWR050STP-GAU; TWR050STP-GEU; TWR050STP-GUK: 24 VDC; Class III; IP44; 50 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWS075STP-BEU; TWS075STP-BUK; TWS075STP-BAU: 24 VDC; Class III; IP44; 75 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWS100STP-BEU; TWS100STP-BUK; TWS100STP-BFR; TWS100STP-BAU; TWS100STP-GEU; TWS100STP-GUK; TWS100STP-TEU; TWS100STP-TUK; TWS100SPP-BEU; TWS100SPP-BUK; TWS100SPP-GEU; TWS100SPP-GUK; TWS100STP-TAU; TWS100SPP-BAU; TWS100SPP-GAU; TWS100STP-GAU: 24 VDC; Class III; IP44; 100 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWS150STP-BEU; TWS150STP-BUK; TWS150STP-BUS; TWS150STP-BAU; TWS150STP-BFR; TWS150STP-GEU; TWS150STP-GUK; TWS150STP-GAU: 24 VDC; Class III; IP44; 150 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWS175STP-BEU; TWS175STP-BUK; TWS175STP-GEU; TWS175STP-GUK; TWS175SPP-BEU; TWS175SPP-BUK; TWS175SPP-GEU; TWS175SPP-GUK; TWS175SPP-BAU; TWS175STP-BAU; TWS175STP-GAU; TWS175SPP-GAU: 24 VDC; Class III; IP44; 175 pcs non-replaceable LEDs; adapter rated power 24 W.

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230912103GZU-VOC002.

Ratings & Principle Characteristics:

For luminaire body input of models TWI190STP-TEU; TWI190STP-TUK; TWI190STP-TUS; TWI190STP-TAU; TWI190STP-TFR; TWI190SPP-TEU; TWI190SPP-TUK; TWI190SPP-TUS; TWI190SPP-TAU; TWI190SPP-TFR; TWI190GOP-TEU; TWI190GOP-TUK; TWI190GOP-TUS; TWI190GOP-TAU; TWI190GOP-TFR; TWI190STP-BEU; TWI190STP-BUK; TWI190SPP-BEU; TWI190SPP-BUK; TWI190SPPRU-TEU; TWI190SPPRU-TUK; TWI190GOP-BEU; TWI190GOP-BUK; TWI190SPPRU-TAU; TWI190GOP-BAU; TWI190SPP-BAU; TWI190STP-BAU: 24 VDC; Class III; IP44; 190 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWB200STP-WEU; TWB200STP-WUK; TWB200STP-WFR; TWB200STP-WAU; TWS200STP-BEU; TWS200STP-BUK; TWS200STP-GEU; TWS200STP-GUK; TWD200STP-BEU; TWD200STP-BUK; TWD200STP-TEU; TWD200STP-TUK; TWS200STP-BAU; TWD200STP-TAU; TWS200STP-GAU; TWD200STP-BAU: 24 VDC; Class III; IP44; 200 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWW210SPP-TEU; TWW210SPP-TUK; TWW210SPP-TFR; TWW210SPP-TAU; TWW210STP-TEU; TWW210STP-TUK; TWW210SPP-BEU; TWW210SPP-BUK; TWW210SPP-BAU; TWW210STP-TAU: 24 VDC; Class III; IP44; 210 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWT250STP-BEU; TWT250STP-BUK; TWT250STP-BFR; TWT250STP-BAU; TWT250GOP-BEU; TWT250GOP-BUK; TWT250GOP-BFR; TWT250GOP-BAU; TWS250GOP-BEU; TWS250GOP-BUK; TWS250GOP-BUS; TWS250GOP-BAU; TWS250GOP-TFR; TWS250SPP-BEU; TWS250SPP-BUK; TWS250SPP-BUS; TWS250SPP-BAU; TWS250SPP-BFR; TWS250SPP-TFR; TWS250SPP-TEU; TWS250SPP-TUK; TWS250SPP-TUS; TWS250SPP-TAU; TWS250STP-BEU; TWS250STP-BUK; TWS250STP-BUS; TWS250STP-BAU; TWS250STP-BFR; TWS250STP-GEU; TWS250STP-GUK; TWS250STP-TEU; TWS250STP-TUK; TWS250SPP-GEU; TWS250SPP-GUK; TWS250GOP-GEU; TWS250GOP-GUK; TWS250GOP-TEU; TWS250GOP-TUK; TWS250STP-GAU; TWS250SPP-GAU; TWS250GOP-TAU; TWS250STP-TAU; TWS250GOP-GAU: 24 VDC; Class III; IP44; 250 pcs non-replaceable LEDs; adapter rated power 24 W.

For luminaire body input of models TWI380SPP-TEU; TWI380SPP-TUK; TWI380SPP-TAU: 24 VDC; Class III; IP44; 380 pcs non-replaceable LEDs; adapter rated power 36 W.

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230912103GZU-VOC002.

Ratings & Principle
Characteristics:

For luminaire body input of models TWT400SPP-BEU; TWT400SPP-BUK; TWT400SPP-BFR; TWT400SPP-BAU; TWT400STP-BEU; TWT400STP-BUK; TWT400STP-BFR; TWT400STP-BAU; TWT400GOP-BEU; TWT400GOP-BUK; TWT400GOP-BFR; TWT400GOP-BAU; TWC400STP-BEU; TWC400STP-BUK; TWC400STP-BFR; TWC400STP-BAU; TWC400GOP-BEU; TWC400GOP-BUK; TWC400GOP-BFR; TWC400GOP-BAU; TWS400GOP-BEU; TWS400GOP-BUK; TWS400GOP-BAU; TWS400GOP-TFR; TWS400SPP-BEU; TWS400SPP-BUK; TWS400SPP-BAU; TWS400SPP-TFR; TWS400SPP-TAU; TWS400STP-BEU; TWS400STP-BUK; TWS400STP-BUS; TWS400STP-BAU; TWS400STP-BFR; TWS400STP-GEU; TWS400STP-GUK; TWS400STP-TEU; TWS400STP-TUK; TWS400SPP-GEU; TWS400SPP-GUK; TWS400GOP-GEU; TWS400GOP-GUK; TWS400GOP-TEU; TWS400GOP-TUK; TWW400SPP-TEU; TWW400SPP-TUK; TWC400STP-GEU; TWC400STP-GUK; TWC400STP-TEU; TWC400STP-GEU; TWC400GOP-GEU; TWC400GOP-GUK; TWC400SPP-BEU; TWC400SPP-BUK; TWC400SPP-GEU; TWC400SPP-GUK; TWD400STP-BEU; TWD400STP-BUK; TWD400STP-TEU; TWD400STP-TUK; TWT400STP-GEU; TWT400STP-GUK; TWT400SPP-GEU; TWT400SPP-GEK; TWS400GOP-TAU; TWS400STP-TAU; TWC400SPP-BAU; TWS400SPP-GAU; TWD400STP-TAU; TWT400SPP-GAU; TWS400STP-GAU; TWC400STP-GAU; TWC400GOP-GAU; TWW400SPP-TAU; TWC400STP-TAU; TWT400STP-GAU; TWS400GOP-GAU; TWC400STP-GAU; TWC400SPP-GAU; TWD400STP-BAU: 24 VDC; Class III; IP44; 400 pcs non-replaceable LEDs; adapter rated power 36 W.

For luminaire body input of models TWT500STP-BEU; TWT500STP-BUK; TWT500STP-BFR; TWT500STP-BAU; TWT500GOP-BEU; TWT500GOP-BUK; TWT500GOP-BFR; TWT500GOP-BAU; TWT500STP-GEU; TWT500STP-GUK; TWT500GOP-GEU; TWT500GOP-GUK; TWT500STP-GAU; TWT500GOP-GAU: 24 VDC; Class III; IP44; 500 pcs non-replaceable LEDs; adapter rated power 36 W.

For luminaire body input of models TWS600STP-BEU; TWS600STP-BUK; TWS600STP-BFR; TWS600STP-BAU; TWS600STP-GEU; TWS600STP-GUK; TWS600STP-TEU; TWS600STP-TUK; TWS600SPP-BEU; TWS600SPP-BUK; TWS600SPP-GEU; TWS600SPP-GUK; TWS600STP-TAU; TWS600SPP-GAU; TWS600SPP-BAU; TWS600STP-GAU: 24 VDC; Class III; IP44; 600 pcs non-replaceable LEDs; adapter rated power 36 W.

Signature



Name: Sky Zhu

Position: Supervisor

Date: 11 October 2023

This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.