

# Ledworks SRL

## TEST REPORT

**SCOPE OF WORK**

EMC TESTING–Refer to page 3

**REPORT NUMBER**

190425162GZU-001

**ISSUE DATE**

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**PAGES**

6

**DOCUMENT CONTROL NUMBER**

EN 300 328 V2.1.1 WIFI-b

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## TEST REPORT

Applicant Name & : Ledworks SRL  
Address : Via Calabiana 6, Milano 20100  
Manufacturing Site : Same as applicant  
Intertek Report No: 190425162GZU-001 Amendment 1

### Test standards

**EN 300 328 V2.1.1 (2016-11)**

### Sample Description

Product : LED Lighting Chains  
Models No. : Refer to page 3  
Electrical Rating : Refer to page 4-5  
**Serial No.** : Not Labeled  
Date Received : --  
Date Test : --  
Conducted

Prepared and Checked By



Daniel He

Project Engineer

Approved By:



Helen Ma

Team Leader

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## TEST REPORT

### Results Conclusion (with Justification)

RE: Radio Testing Pursuant to Radio Equipment Directive 2014/53/EU, standard ETSI EN 300328 V2.1.1 Performed on the LED Lighting Chains, Models: TWS150STP-BEU, TWS150STP-BUK, TWS250STP-BEU, TWS250STP- BUK, TWS400STP-BEU, TWS400STP- BUK, TWS250SPP-BEU, TWS250SPP-BUK, TWS250SPP-TEU, TWS250SPP-TUK, TWS250GOP-BEU; TWS250GOP-BUK, TWI190STP-TEU, TWI190STP-TUK, TWI190SPP-TEU, TWI190SPP-TUK, TWI190GOP-TEU, TWI190GOP-TUK, TWF020STP-BEU, TWF020STP-BUK, TWS100STP-BEU, TWS100STP-BUK, TWS100STP-BFR, TWS150STP-BFR, TWS250STP-BFR, TWS400STP-BFR, TWS600STP-BEU, TWS600STP-BUK, TWS600STP-BFR, TWS250SPP-BFR, TWS250SPP-TFR, TWS400SPP-BEU, TWS400SPP-BUK, TWS400SPP-TFR, TWS250GOP-TFR, TWS400GOP-BEU, TWS400GOP-BUK, TWS400GOP-TFR, TWI190STP-TFR, TWI190SPP-TFR, TWI190GOP-TFR, TWF020STP-BFR, TWF020ADP-BEU, TWF020ADP-BFR, TWW210SPP-TEU, TWW210SPP-TUK, TWW210SPP-TFR, TWB200STP-WEU, TWB200STP-WUK, TWB200STP-WFR, TWC400STP-BEU, TWC400STP-BUK, TWC400STP-BFR, TWC400GOP-BEU, TWC400GOP-BUK, TWC400GOP-BFR, TWT250STP-BEU, TWT250STP-BUK, TWT250STP-BFR, TWT250GOP-BEU, TWT250GOP-BUK, TWT250GOP-BFR, TWT400SPP-BEU, TWT400SPP-BUK, TWT400SPP-BFR, TWT400STP-BEU, TWT400STP-BUK, TWT400STP-BFR, TWT400GOP-BEU, TWT400GOP-BUK, TWT400GOP-BFR, TWT500STP-BEU, TWT500STP-BUK, TWT500STP-BFR, TWT500GOP-BEU, TWT500GOP-BUK, TWT500GOP-BFR, TWR050SPP-BEU, TWR050SPP-BUK, TWR050SPP-BFR, TWG050SPP-BEU, TWG050SPP-BUK, TWG050SPP-BFR

Remark: the suffix of EU refers to Europe plug, UK refers to UK plug; FR refers to French plug

## TEST REPORT

### Electrical Rating:

For drivers input: 220-240 V $\sim$ ; 50-60 Hz; Class II; SELV; independent,

For luminaire body of models TWF020STP-BEU, TWF020STP-BUK, TWF020STP-BFR;  
TWF020ADP-BEU, TWF020ADP-BFR  
24Vdc; 1.0A; Class III; IP44; 40 pcs non-replaceable LEDs;  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A  
Output: 24Vdc, 1.0A

For luminaire body input of models TWR050SPP-BEU; TWR050SPP-BUK; TWR050SPP-BFR;  
TWG050SPP-BEU; TWG050SPP-BUK; TWG050SPP-BFR:  
24 Vdc, 1.0A; Class III; IP44; 50 pcs non-replaceable LEDs  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A  
Output: 24Vdc, 1.0A

For luminaire body input of models TWS100STP-BEU, TWS100STP-BUK, TWS100STP-BFR:  
24 Vdc, 1.0A; Class III; IP44; 100 pcs non-replaceable LEDs;  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A  
Output: 24Vdc, 1.0A

For luminaire body input of models TWS150STP-BEU, TWS150STP-BUK, TWS150STP-BFR:  
24 Vdc, 1.0A, Class III, IP44; 150 pcs non-replaceable LEDs;  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A  
Output: 24Vdc, 1.0A

For luminaire body input of models TWI190STP-TEU, TWI190STP-TUK, TWI190STP-TFR,  
TWI190SPP-TEU, TWI190SPP-TUK, TWI190SPP-TFR, TWI190GOP-TEU, TWI190GOP-TUK,  
TWI190GOP-TFR: 24Vdc,1.0A; Class III, IP44, 190 pcs non-replaceable LEDs;  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A  
Output: 24Vdc, 1.0A

For luminaire body input of models TWB200STP-WEU, TWB200STP-WUK, TWB200STP-WFR:  
24 Vdc; Class III, IP44, 200 pcs non-replaceable LEDs;  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A

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Output: 24Vdc, 1.0A

For luminaire body input of models TWW210SPP-TEU, TWW210SPP-TUK, TWW210SPP-TFR:  
24 Vdc, 1.0A, Class III, IP44, 210 pcs non-replaceable LEDs;  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A  
Output: 24Vdc, 1.0A

For luminaire body input of models TWT250STP-BEU, TWT250STP-BUK, TWT250STP-BFR,  
TWT250GOP-BEU, TWT250GOP-BUK, TWT250GOP-BFR, TWS250GOP-BEU, TWS250GOP-BUK,  
TWS250GOP-TFR, TWS250SPP-BEU, TWS250SPP-BUK, TWS250SPP-BFR, TWS250SPP-TFR,  
TWS250SPP-TEU, TWS250SPP-TUK, TWS250SPP-TUS, TWS250SPP-TAU, TWS250STP-BEU,  
TWS250STP-BUK, TWS250STP-BFR:  
24Vdc; 1.0A; Class III; IP44; 250 pcs non-replaceable LEDs;  
Adaptor model: DP045A24000100HK  
Input: 100-240Vac, 50/60Hz, Max 0.6A  
Output: 24Vdc, 1.0A

For luminaire body of models For luminaire body input of models TWT400SPP-BEU,  
TWT400SPP-BUK, TWT400SPP-BFR, TWT400STP-BEU, TWT400STP-BUK, TWT400STP-BFR,  
TWT400GOP-BEU; TWT400GOP-BUK, TWT400GOP-BFR, TWC400STP-BEU, TWC400STP-BUK,  
TWC400STP-BFR, TWC400GOP-BEU, TWC400GOP-BUK, TWC400GOP-BFR, TWS400GOP-BEU,  
TWS400GOP-BUK, TWS400GOP-TFR, TWS400SPP-BEU, TWS400SPP-BUK, TWS400SPP-TFR,  
TWS400STP-BEU, TWS400STP-BUK, TWS400STP-BFR  
24Vdc; 1.5A; Class III; IP44; 400 pcs non-replaceable LEDs;  
Adaptor model: XY36J-240150VH-BT  
Input: 100-240Vac, 50/60Hz, Max 0.5A  
Output: 24Vdc, 1.5A

For luminaire body input of models TWT500STP-BEU, TWT500STP-BUK, TWT500STP-BFR,  
TWT500GOP-BEU, TWT500GOP-BUK, TWT500GOP-BFR: 24 Vdc, 1.5A; Class III; IP44; 500 pcs  
non-replaceable LEDs;  
Adaptor model: XY36J-240150VH-BT  
Input: 100-240Vac, 50/60Hz, Max 0.5A  
Output: 24Vdc, 1.5A

For luminaire body input of models TWS600STP-BEU, TWS600STP-BUK, TWS600STP-BFR:  
24 Vdc, 1.5A; Class III; IP44; 600 pcs non-replaceable LEDs;  
Adaptor model: XY36J-240150VH-BT  
Input: 100-240Vac, 50/60Hz, Max 0.5A  
Output: 24Vdc, 1.5A

All model with the same Bluetooth and WIFI module

**TEST REPORT**

WIFI and BT cannot work simultaneously, during the normal operation the BT is off. It is needed only the first time to setup the controller.

**Report revision reason:**

This report is the first revision of the previous test report 190425162GZU-001 dated 11 September 2019 and shall be used together with it.

This report was issued because of below changes:

Added 62 new models TWS100STP-BEU, TWS100STP-BUK, TWS100STP-BFR, TWS150STP-BFR, TWS250STP-BFR, TWS400STP-BFR, TWS600STP-BEU, TWS600STP-BUK, TWS600STP-BFR, TWS250SPP-BFR, TWS250SPP-TFR, TWS400SPP-BEU, TWS400SPP-BUK, TWS400SPP-TFR, TWS250GOP-TFR, TWS400GOP-BEU, TWS400GOP-BUK, TWS400GOP-TFR, TWI190STP-TFR, TWI190SPP-TFR, TWI190GOP-TFR, TWW210SPP-TEU, TWW210SPP-TUK, TWW210SPP-TFR, TWB200STP-WEU, TWB200STP-WUK, TWB200STP-WFR, TWC400STP-BEU, TWC400STP-BUK, TWC400STP-BFR, TWC400GOP-BEU, TWC400GOP-BUK, TWC400GOP-BFR, TWT500STP-BEU, TWT500STP-BUK, TWT500STP-BFR, TWT500GOP-BEU, TWT500GOP-BUK, TWT500GOP-BFR, TWT400SPP-BEU, TWT400SPP-BUK, TWT400SPP-BFR, TWT400STP-BEU, TWT400STP-BUK, TWT400STP-BFR, TWT400GOP-BEU, TWT400GOP-BUK, TWT400GOP-BFR, TWT250STP-BEU, TWT250STP-BUK, TWT250STP-BFR, TWT250GOP-BEU, TWT250GOP-BUK, TWT250GOP-BFR, TWR050SPP-BEU, TWR050SPP-BUK, TWR050SPP-BFR, TWG050SPP-BEU, TWG050SPP-BUK, TWG050SPP-BFR, TWF020STP-BFR, TWF020ADP-BFR into report.

TWF020ADP-BFR as interconnected chain for TWF020STP-BFR.

New models have similar electronic and mechanical structure with original model TWS400STP-BEU, the differences between them were LED quantity or LEDs or appearance.

Based on engineering judgment, no need additional test.

The production units are required to conform to the initial sample as received when the units are placed on the market.

\*\*\*\*\*End of Report\*\*\*\*\*