

Ledworks SRL

SCOPE OF WORK

EMC TESTING—Refer to page 5

REPORT NUMBER

190425162GZU-006

ISSUE DATE

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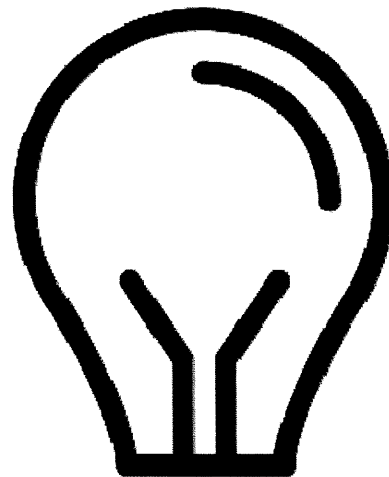
PAGES

18

DOCUMENT CONTROL NUMBER

EN 55015: 2013+A1 (With electronics)-a

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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-006 Amendment 1

Test standards

EN 55015:2013+A1:2015
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 61547:2009

Sample Description

Product : LED Lighting Chains
Model No. : Refer to page 5
Electrical Rating : Refer to page 5-7
Serial No. : Not Labeled
Date Received : 12 May 2020
Date Test : 12 May 2020-12 June 2020
Conducted

Prepared and Checked By

Approved By:



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TEST REPORT

TESTREPORT..... 1

CONTENT 3

1. TEST RESULTS SUMMARY 4

2. EMC RESULTS CONCLUSION 5

3. LABORATORY MEASUREMENTS 9

4. EQUIPMENT USED DURING TEST..... 10

5. EMI TEST 12

5.1 EN 55015 CONTINUOUS CONDUCTED DISTURBANCE VOLTAGE TEST..... 12

5.1.1 *Block Diagram of Test Setup* 12

5.1.2 *Test Setup and Procedure* 12

5.1.3 *Test Data and curve* 13

5.2 EN 55015 RADIATED ELECTROMAGNETIC DISTURBANCE (30 MHz -300 MHz) 15

5.2.1 *Block Diagram of Test Setup* 15

5.2.2 *Test Setup and Procedure* 15

5.2.3 *Test Data and Curve* 16

6. APPENDIX I - PHOTOS OF TEST SETUP..... 18

TEST REPORT

Test Item	Standard	Result
Continuous conducted disturbance voltage	EN 55015:2013+A1:2015	Pass
Radiated electromagnetic disturbance (30 MHz -300 MHz)	EN 55015:2013+A1:2015	Pass

Remark:

1. The symbol "N/A" in above table means Not Applicable.
2. When determining the test results, measurement uncertainty of tests has been considered.

TEST REPORT

RE: Testing Pursuant to standard EN 55015:2013+A1:2015, EN 61547:2009 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

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

TEST REPORT

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
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

TEST REPORT

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

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-006 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.

TEST 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, model TWS600SPP-BUK was selected for test Continuous conducted disturbance voltage, Radiated electromagnetic disturbance (30 MHz -300 MHz)

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