

# Ledworks SRL

## TEST REPORT

**SCOPE OF WORK**

Single Test Report

**REPORT NUMBER**

240926190GZU-001

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**REVISION DATE**

None

**NUMBER OF PAGES**

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**DOCUMENT CONTROL NUMBER**

General\_ Single Test Report\_ B

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## TEST REPORT

<b>Applicant</b>	:	Ledworks SRL			
<b>Address</b>	:	Via Tortona 37, 20144, Milano (MI), ITALY			
<b>Manufacturer</b>	:				
<b>Manufacturer Address</b>	:				
<b>Contact Name</b>	:	Mauro Tomasi	<b>Email &amp; Phone No.</b>	:	mauro.tomasi@twinkly.com
<b>Sample Description</b>					
<b>Name of Sample</b>	:	Lighting Chains			
<i>Model Number</i>	:	TWPL072STP-Txx			
<i>Sample Development Level</i>	:	--			
<i>Quantity of Sample(s)</i>	:	2			
<i>Date of Receival</i>	:	26 September 2024			
<i>Date of test Conducted</i>	:	08 October 2024			
<b>Test</b>					
<i>Test Requested</i>	:	IP65			
<i>Test Method</i>	:	Refer to clause 9.2.2; 9.2.6 of EN IEC 60598-1: 2021+A11:2022 and IEC 60598-1:2020			
<i>Test Observation:</i>	:	IP6X: no talcum in dust tight luminaire IPX5: no trace of water having entered in any part of luminaire			
<i>Test Conclusion:</i>	:	Pass			
<i>Other information</i>	:	All models provided the same constructions; only difference on LED driver plug version. TWPL072STP-TEU was selected to perform all tests.			
<i>Remark</i>	:	<ul style="list-style-type: none"> <li>This test report is only for evaluation of the specified standard clauses listed in <u>Test Requested</u>.</li> <li>When determine the test result, measurement uncertainty has been considered.</li> </ul>			
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Tested by:

Hoke He

Asst Engineer

Hoke He

Approved by:

Shelley Ying

Technical manager



The testing of this report is type tests. The requirements and tolerances permitted by this report are related to testing of a type-test sample submitted by the manufacturer for that purpose. Compliance of the type-test sample does not ensure compliance of the whole production of a manufacturer.

## TEST REPORT

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)

General remark:

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

Rating of the products:

Input of LED driver: 100-240 V $\sim$ ; 50/60 Hz; 1,2 A; Class II;

Input of lamp part: 24 VDC; Max. 72 W; Class III; IP65;

Non-replaceable LED modules;

Suitable for direct mounting on normally flammable surfaces.

## TEST REPORT

<b>Test Result:</b>			
Clause	Requirement + Test	Result - Remark	Verdict
9.2	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP .....	IP65	—
	- mounting position during test .....	As normal used	—
	- fixing screws tightened; torque (Nm) .....	0,27 Nm	—
	- tests according to clauses .....	Cl. 9.2.2 & 9.2.6	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		P
	c.1) For luminaires without drain holes – no water entry		P
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	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
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