



## IEC 61000-4-5: SURGE IMMUNITY

### Report No.: 24-09-MAR-027-01



Client: Paragon Semiconductor Lighting Technology Co., Ltd.  
(ParagonLED®)  
Address: 3F No 369 Sec 2 Wenhua 2Nd Rd New Taipei City, 244 TW  
Product: LED Luminaire  
Model: TTL-035-50K-200V  
Series Model: N/A

Date test item received: 2024/09/12  
Date test campaign completed: 2024/09/14  
Date of issue: 2024/09/30

**The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.**

Total number of pages of this test report: 4 pages



<p>Test Engineer</p>  <p>RON LIN</p>	<p>Checked By</p>  <p>Kuang Chi Yu</p>
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Laboratory Introduction: Taiwan Testing and Certification Center is recognized, filed and mutual recognition arrangement as following:

- ① ISO/IEC 17025: TAF(0371), NVLAP(Lab code: 200133-0), CBTL(TUV SUD)
- ② Recognized: BSMI, NCC, FCC(TW0371, TW1112), ISED(Industry Canada Site # 2949A-2)
- ③ Filing: VCCI (C-13518, R-13177, G-10098, T-11682)
- ④ MRA: Australia, New Zealand, Singapore

**Table 1 – Test levels**

<b>Level</b>	<b>Open-circuit test voltage <math>\pm 10\%</math> kV</b>
1	0,5
2	1,0
3	2,0
4	4,0
X	Special

NOTE X can be any level, above, below or in between the other levels. This level can be specified in the product standard.

## Surge Immunity Test

A. Operating Conditions of The EUT: Operation Mode

Test Date: Sep. 14, 2024

Test Specification	IEC 61000-4-5 Level X		
Name	Manufacturer	Model	
Surge Simulator	Prima	SUG61005CX	
Climatic Condition	Ambient Temperature: <u>24</u> °C		Relative Humidity: <u>64</u> % RH
	Atmospheric Pressure: <u>986</u> mbar		
Power Supply System	AC Power: <u>200</u> Vac <u>60</u> Hz		

Waveform: 1.2/50µs(8/20µs)		Repetition rate: <u>30</u> sec		Times: <u>5</u> times/each condition			
		\Phase		<b>0°</b>	<b>90°</b>	<b>180°</b>	<b>270°</b>
\Voltage \Mode \Polarity \Result							
<b>15.0 kV</b>	L-N	+	A	A	A	A	
		-	A	A	A	A	
	L-G	+	A	A	A	A	
		-	A	A	A	A	
	N-G	+	A	A	A	A	
		-	A	A	A	A	

Result:	<input checked="" type="checkbox"/> Complied <input type="checkbox"/> Does not comply		
Criterion Required:	<u>B</u>	Criterion Met:	<u>A</u>

Note: ”A” means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

